

2025 KCS 136th General Meeting & Exhibition

October 22-24, 2025, Changwon Exhibition Convention Center



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2025 KCS 136th General Meeting & Exhibition

October 22-24, 2025
Changwon Exhibition Convention Center

136th KCS General Meeting Welcome Message



On behalf of the organizing committee, it is my great honor and pleasure to welcome all distinguished colleagues and participants to the 136th General Meeting of the Korean Chemical Society (KCS), which will be held at the Changwon Convention Center from October 22 (Wed) to 24 (Fri), 2025. This meeting will provide an invaluable forum for Korean and international chemists from across all disciplines to share their most recent advances, exchange ideas, and foster new collaborations.

The scientific program will feature diverse academic presentations as well as the General Assembly. We are especially delighted to host Dr. Myeong Hee Moon (Yonsei University) and Lester Wolfe Professor Mounji G. Bawendi (MIT, 2023 Nobel Laureate in Chemistry) as plenary speakers, delivering lectures entitled “Advances in Size-Selective Analysis of Biomacromolecules Using Field-Flow Fractionation Coupled with Mass Spectrometry” and “Quantum Dots: From Curiosity to Technology,” respectively. In addition, Professor Injae Shin (Yonsei University), recipient of the Ree Taikyue Academic Excellence Award, will deliver an award lecture on “Artificial Ion Transporters Induce Cancer Cell Death.” Professor Doory Kim (Hanyang University), recipient of the 2025 KCS-ACES Early Career Award, will also present an award lecture entitled “Super-Resolution Fluorescence Microscopy beyond Bioimaging: Chemical Mechanisms and Applications.” In addition, a Special Science Talk for Middle and High School Students will be held to inspire the next generation of scientists.

This year’s program also includes a rich set of thematic symposia:

- 4GSR Symposium: Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities
- IBS Symposium: Frontiers in Asymmetric Catalysis
- SRC Symposium: Advances in Nanomaterials Science
- BKCS Symposium: BKCS, Collaborative Projects in Korean Chemistry
- JKCS Symposium: Innovation and Challenge in JKCS
- Chemistry Symposium for Future Innovation: Chemistry at the Quantum Frontier
- SCSK Symposium: The Korean Cosmetics Industry: K-Beauty Technologies and Innovations

I would like to take this opportunity to express my sincere appreciation to our sponsors, including Dongwoo Fine-Chem, Bioneer, Ligachem Bioscience, Shimadzu Scientific Korea, i-SENS, and YS Life Science, for their generous support. Above all, I extend my heartfelt thanks to all members of the Korean Chemical Society and participants of this meeting for your continued engagement and contributions.

I look forward to welcoming you to Changwon, and I hope this conference will be a stimulating and memorable experience for everyone.

Phil Ho Lee
President of the Korean Chemical Society



KCS General Assembly

Part. 1 Plenary Lecture

10/23(Thu), 13:00-14:30, Convention Hall I+II

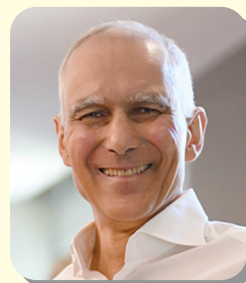


Myeong Hee Moon

Professor

Department of Chemistry
Yonsei University

*Advances in Size-Selective Analysis
of Biomacromolecules Using
Field-Flow Fractionation Coupled with
Mass Spectrometry*



Mounji G. Bawendi

Lester Wolfe Professor

Department of Chemistry
Massachusetts Institute of Technology

*Quantum Dots:
From Curiosity to Technology*

Part. 2 General Assembly

10/23(Thu), 14:30-15:30, Convention Hall I+II

평의원회

분과회장, 지부장 연계회의

DATE&TIME 10/22 (Wed), 17:00

VENUE 연회센터 A룸, 1F

- 주요 회무 보고
- 총회 의결 안건 사전 심사
- 기타 토의

MSIT POLICY BRIEFING

New Government's Basic Research Policy

새정부 기초연구 정책방향

DATE&TIME 10/22(Wed), 14:00-14:30

VENUE Room 302



Jongyoung Jo

(과학기술정보통신부 기초연구진흥과 조종영 과장)

Director, Basic Research Promotion Division
Ministry of Science and ICT (MSIT)

AWARD LECTURE

2025 KCS-ACES Early Career Award

DATE&TIME 10/22 (Wed), 14:30-15:00

VENUE Room 602



Doory Kim

Hanyang University

*Super-Resolution Fluorescence
Microscopy Beyond Bioimaging:
Chemical Mechanisms and Applications*

AWARD LECTURE

2025 Taikyue Ree Academic Award

DATE&TIME

10/24 (Fri), 13:30-14:20

VENUE

Convention Hall III



Injae Shin

Yonsei University

*Artificial Ion Transporters Induce
Cancer Cell Death*

4GSR SYMPOSIUM 1

Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities

DATE&TIME 10/22 (Wed), 13:00-18:00

VENUE Room 604+605



Kyung-Jin Kim

Kyungpook National University

*Role of Synchrotron Facility for Plastic
Bio-Recycling*



Jungwook Kim

GIST

*Structural Mechanisms of Bacterial
Phospholipid Biosynthesis:
From Membrane Association to Catalytic
Specificity*



Mi-Jeong Kwak

Pohang Accelerator Laboratory

*Construction Progress of the Advanced
Macromolecular Crystallography (MX)
Beamline at Korea-4GSR*



Kug-Seung Lee

Pohang Accelerator Laboratory

*Introduction to X-ray Absorption
Spectroscopy and Upgrade Plan for
PLS-II BL8C*



Ik Seon Kwon

Kunsan National University

*Phase Engineering of Two-Dimensional
Transition Metal Dichalcogenide
Nanosheets for Electrochemical Water
Splitting*

4GSR SYMPOSIUM 2

Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities

DATE&TIME 10/22 (Wed), 13:00-18:00

VENUE Room 604+605



Beomgyun Jeong

Korea Basic Science Institute

*Probing Chemical Interfaces Using
Ambient Pressure X-ray Photoelectron
Spectroscopy at KBSI*



In-Hui Hwang

Pohang Accelerator Laboratory

*Advanced X-ray Spectroscopy
Beamlines at Korea-4GSR for Material
Science*



Tae Wu Kim

Kyung Hee University

*Deciphering Photocatalytic Reaction
Mechanisms Using Time-Resolved
X-ray Scattering and Spectroscopy*



Jaeyong Shin

Pohang Accelerator Laboratory

*Multi-Modal Characterization with
Focused Ultrashort X-ray Pulses*



Wonhyuk Jo

Korea Basic Science Institute

*Probing Dynamics in Soft Matter Systems
Using Coherent X-ray Scattering at 4GSR*

IBS SYMPOSIUM

Frontiers in Asymmetric Catalysis

DATE&TIME

10/22 (Wed), 13:30-17:50

VENUE

Room 600A



Sukbok Chang

IBS / KAIST

Asymmetric Formal Hydroamidation of Conjugated Alkenes



Sukwon Hong

GIST

Harnessing Anagostic C-H...Pd Interactions for Asymmetric C-N Cross-Coupling



Sungwoo Hong

IBS / KAIST

Investigation of Catalytic Systems for Asymmetric Functionalization of Alkenes and Strained Bridged Rings



Han Yong Bae

Sungkyunkwan University

Superacid Counteranion as a Flexible-Coordinating Chiral Ligand for Asymmetric Organo-Bismuth Catalyzed Allylation



Mu-Hyun Baik

IBS / KAIST

Rationalizing Photoredox Reactions: Thermodynamics vs Kinetics



Seung Hwan Cho

POSTECH

Transition-Metal-Catalyzed Enantiotopic-Group-Selective Transformations of 1,1-Diborylalkanes



Sarah Yunmi Lee

KAIST

Stereodivergence in Catalytic Conjugate Additions



Do Hyun Ryu

Sungkyunkwan University

Enantioselective Catalysis for the Synthesis of Chiral Molecules

SRC SYMPOSIUM

Advances in Nanomaterials Science

DATE&TIME

10/22 (Wed), 13:50-17:40

VENUE

Room 301



Mounji G. Bawendi

Massachusetts Institute of Technology

*Colloidal Quantum Dots as Single
Photon Quantum Emitters*



Ji-Hyun Kim

Chung-Ang University

*Unraveling Nanoparticle Growth:
Beyond a Century-Old Theory*



Sung Jee Kim

POSTECH

Clusters to Quantum Dots



Jungwon Park

Seoul National University

*Visualizing Nanoparticles by Real-Time
Liquid Electron Microscopy*



Sangwoon Yoon

Chung-Ang University

*"Golden": Plasmonic Properties of Gold
Nanoparticles and Their Assemblies*



Sunmin Ryu

POSTECH

*Molecular Excitons in Two-Dimensional
Organic Crystals*

BKCS SYMPOSIUM

BKCS, Collaborative Projects in Korean Chemistry

DATE&TIME 10/22(Wed), 14:00-17:05

VENUE Room 600B



So-Jung Park

Ewha Womans University

*Dynamic Nanostructures via Assembly
of Functional Nanoparticles and Polymers*



Jaeyoung Sung

Chung-Ang University
Global SRC for Systems Chemistry

*Supersaturation, Nucleation, and Phase
Separation of Mesoscopic Systems*



Haesik Yang

Pusan National University

*Electron Mediators for Electrochemical
Biosensors*



Jin Hee Ahn

GIST

*Development of "Beyond Rule of Five"
Drugs: Medium to High Molecular Weight
Modalities Including Antibody-Drug
Conjugates*



Jaebum Choo

Chung-Ang University

*Rapid and Highly Sensitive Pathogen
Screening Using Nanoplasmonic SERS
Sensors*

JKCS SYMPOSIUM

Innovation and Challenge in JKCS

DATE&TIME

10/22 (Wed), 15:00-18:00

VENUE

Room 602



Gyeongwon Kang

Kangwon National University

Investigating Dynamics of Nanogap-Confined Molecules Using Single-Particle Nanoplasmonics



Dong Won Kang

Inha University

Optimal Pore Environment Screening in Robust Metal-Organic Frameworks for Nitrogen Trifluoride Capture



Hongki Kim

Kongju National University

Au Nanostructure-Based Surface-Enhanced Raman scattering Substrate for Biochemical Sensing



Jongsik Park

Kyonggi University

Fabrication of Unconventional Heterointerfaces within Nanoparticle via Cation Exchange Reaction



Sung-Eun Suh

Ajou University

Asymmetric Approach to Strained Chiral Scaffolds for Stereoretentive Transformations



Sung Yun Son

Kwangwoon University

Film-State Structural Modification of Conjugated Polymers via Thermally and Acid-Cleavable Side Chains for Enhanced Charge Transport and Stability



Najin Jeong

Korea National University of Education

Chemistry Education for the Future: Implementing Modeling through Generative AI



Ara Jo

Kangwon National University

A Potential-Holding Method for Reliable ECSA Determination on Platinum Electrode

CHEMISTRY SYMPOSIUM FOR FUTURE INNOVATION 1

SPONSORED BY  DONGJIN SEMICHEM CO.,LTD.

Chemistry at the Quantum Frontier

DATE&TIME 10/22 (Wed), 13:00-18:00

VENUE Room 606+607

■ Symposium 1 : Quantum Computing in Chemistry(13:00-14:45)



Young Min Rhee

KAIST

*Efficient Excited-State Energy Calculations
via Symmetry-Preserving VQE and Shallow
QPE*



Joonsuk Huh

Yonsei University

*Energy Distribution of Quantum States and
Quantum Algorithms*



Seunghoon Lee

Seoul National University

*Quantum Interference Algorithm for
Initial State Preparation*



Seiichiro Ten-no

Kobe University

*Challenges of Projective Transcorrelation
toward Near-Term Quantum Computing*

CHEMISTRY SYMPOSIUM FOR FUTURE INNOVATION 2

SPONSORED BY  DONGJIN SEMICHEM CO.,LTD.

Chemistry at the Quantum Frontier

DATE&TIME 10/22 (Wed), 13:00-18:00

VENUE Room 606+607

■ Symposium 2 : Quantum Materials, Measurement, and Control in Chemistry(14:55-18:00)



Hohjai Lee
GIST

*Trends and Characterization of Organic
Molecular Spin Qubit Systems*



Jeongcheol Shin
Duksung Women's University

*Electronic and Spin Properties of
Group 10 $M(NHCCS_2^+)_2$ Compounds and
Their Redox Derivatives: Prospects for
Molecular Qubit Applications*



Junwoo Kim
Chungbuk National University

*Nonlinear Spectroscopy with Paired Single
Photons*



Hosung Seo
Sungkyunkwan University

*First-Principles Theory of Quantum
Defects in Materials for Solid-State Quantum
Information Science*



Hyeon Suk Shin
Sungkyunkwan University

*Hexagonal Boron Nitride as a Platform for
Quantum Technologies*



Keunhong Jeong
Korea Military Academy

*Quantum Magnetic Field Sensing and
Quantum Hyperpolarization Techniques for
Chemical Applications*



Eunsung Lee
Seoul National University

*Accessing Organic Radicals as Qubit
Materials*

SCSK SYMPOSIUM

The Korean Cosmetics Industry: K-Beauty Technologies and Innovations

DATE&TIME

10/22 (Wed), 15:00-17:30

VENUE

Room 302



Jeoungjin Ryu

COSMAX R&I Center

*Cosmetic Ingredient Trends:
From Conventional Actives to
Biotechnological Innovations*



Ji Wook Jang

AMOREPACIFIC

*Advanced Skincare for Skin Barrier Using
Ultra-High Molecular Weight Hyaluronic
Acid Hydrogel*



Seung-Hyun Jun

LG Household and Health Care R&D Center

*Enhanced Transdermal NAD⁺ Delivery
via Ion-Coupled Transfersomes:
A Solution for Skin Longevity and
Senescence Delay*



Jin Mo Kim

Kolmar Korea

*Research on Convergent Technologies
Focused on Cosmetic Development*

Lucky Draw Event & Best Posters Awards Ceremony



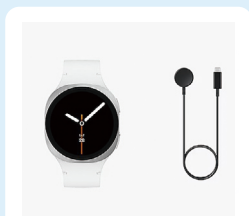
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목, 금요일 경품추첨 전 최우수 포스터상 시상식이 진행될 예정입니다.

Date	Place
October 23(THU), 18:00	3F, 후원 현황판 앞
October 24(FRI), 16:30	



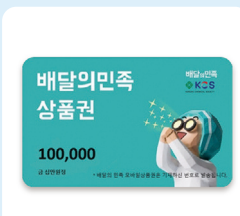
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목/금 각 3명



배민 10만원 상품권

목/금 각 5명



스타벅스
기프트카드 5만원

목/금 각 15명

※ 23일(목), 24일(금) 2회 추첨함.

※ 추첨대상자는 학생회원과 학부생회원만 해당함.

※ 추첨장에서 본인 확인된 당첨자만 인정함.(당첨자는 신분증 또는 학생증 제시 필수)

※ 당첨자는 현장에서 경품 지급 예정.(배달의 민족 상품권은 행사 후 3주내 작성한 번호로 모바일 발송예정)

중고등학교 학생을 위한 특강

2025년 10월 24일(금), 16:00~17:30

창원컨벤션센터, 602호

강의내용

※ 중/고등학생의 경우 무료 참가 가능합니다.

시간	강의명	발표자
16:00-16:40	화학과 함께한 15년, 그리고	최경민 교수 (한국에너지공과대학교 에너지공학부)
16:50-17:30	잘 먹고, 잘 사는 화학자의 세계	박현주 교수 (조선대학교 화학교육과)

2025 KCS 136th GENERAL MEETING & EXHIBITION

October 22-24, 2025
Changwon Exhibition Convention Center

 **Plenary Lecture** October 23, 2025



Myeong Hee Moon
Professor
Department of Chemistry
Yonsei University



Mounji G. Bawendi
Lester Wolfe Professor
Department of Chemistry
Massachusetts Institute of Technology

 22(WED)

- [Award Lecture]
2025 KCS-ACES Early Career Award
- [4GSR Symposium]
- [IBS Symposium]
- [SRC Symposium]
- [BKCS Symposium]
- [JKCS Symposium]
- [Chemistry Symposium for Future Innovation]
- [SCSK Symposium]

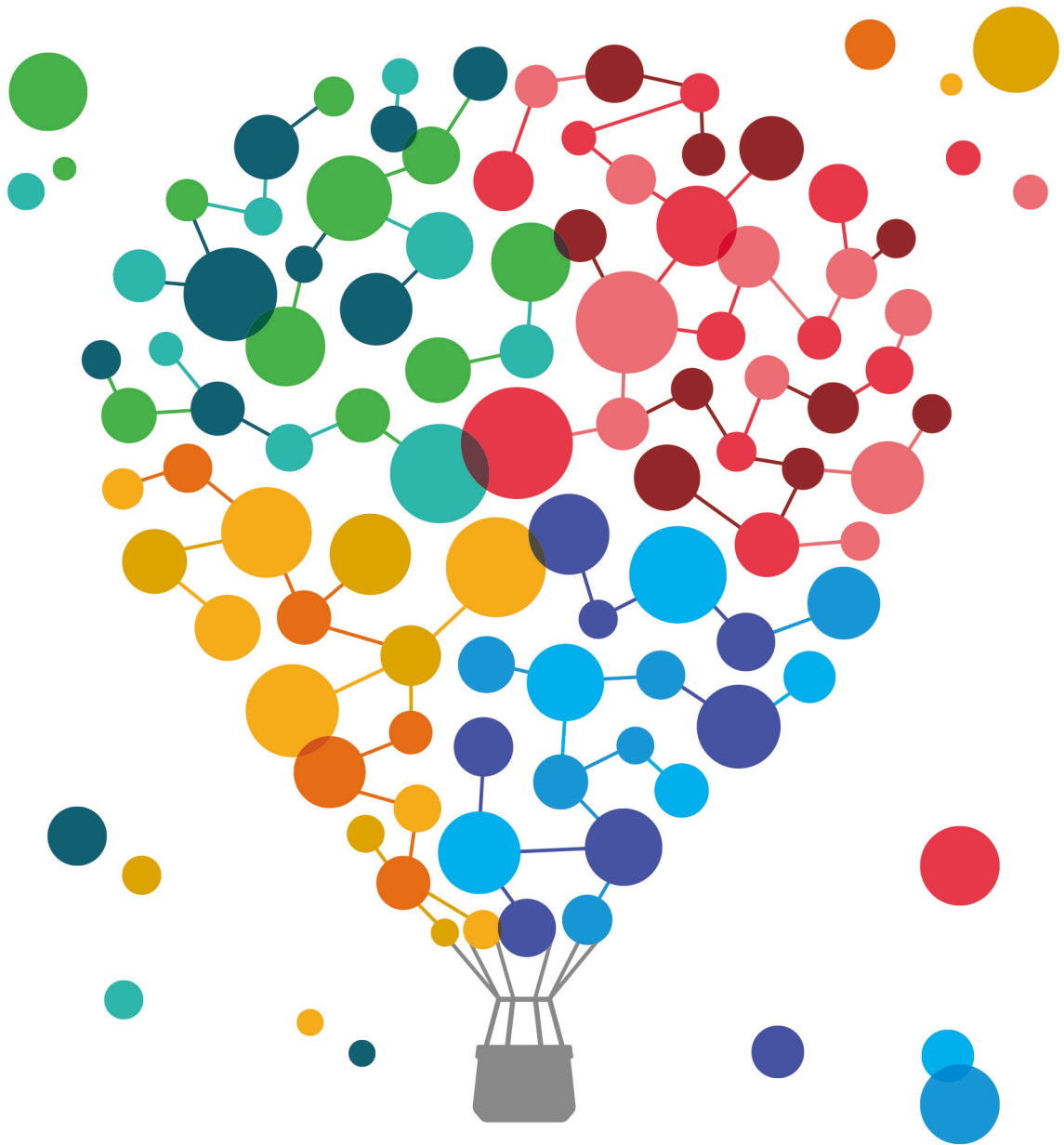
 23(THU)

- Plenary Lecture
- KCS General Assembly
- Scientific Programs I
(Poster & Oral Presentation)
- Exhibition

 24(FRI)

- [Award Lecture]
2025 Taikyue Ree Academic Award
- Scientific Programs II
(Poster & Oral Presentation)
- Exhibition
- Special Science Talk for Middle and High School Students





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<https://link.springer.com/journal/40543>

JOURNAL HISTORY

- The Journal of Analytical Science and Technology was established by Korea Basic Science Institute (KBSI) in 2010 to systematically manage analytical technologies developed and share them both domestically and internationally.
- Published as an open-access journal in partnership with Springer Nature since 2013.
- Indexed in SCIE and Scopus in 2018.

JOURNAL REPRESENTATIVE ACHIEVEMENTS

- Ranked in the Q2 category of Chemistry, Analytical in 2022.
- Article Collection on Geochemical and Cosmochemical Applications of Microanalysis published in 2024.

JOURNAL GOALS

- Establishing an international sharing system for analytical science and technology through publication in SCIE-indexed academic journal.
- Enhancing KBSI's international visibility in the field of analytical science and technology.

2024 IF News

The journal's 2024 Impact Factor announced by Clarivate is **2.8**. (Q2)

HOW TO SUBMIT A PAPER

Submission Guidelines

- <https://link.springer.com/journal/40543/submission-guidelines>

Editorial Manager

- <https://www.editorialmanager.com/jans/default.aspx>

ARTICLE PROCESSING CHARGE

- Authors who are not eligible to receive a discount or waiver may submit their request to Korea Basic Science Institute for APC coverage upon acceptance of their article.

CONTACT INFORMATION

Email: jast@kbsi.re.kr, kby5010@kbsi.re.kr

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국제 연구산업 컨벤션 2025

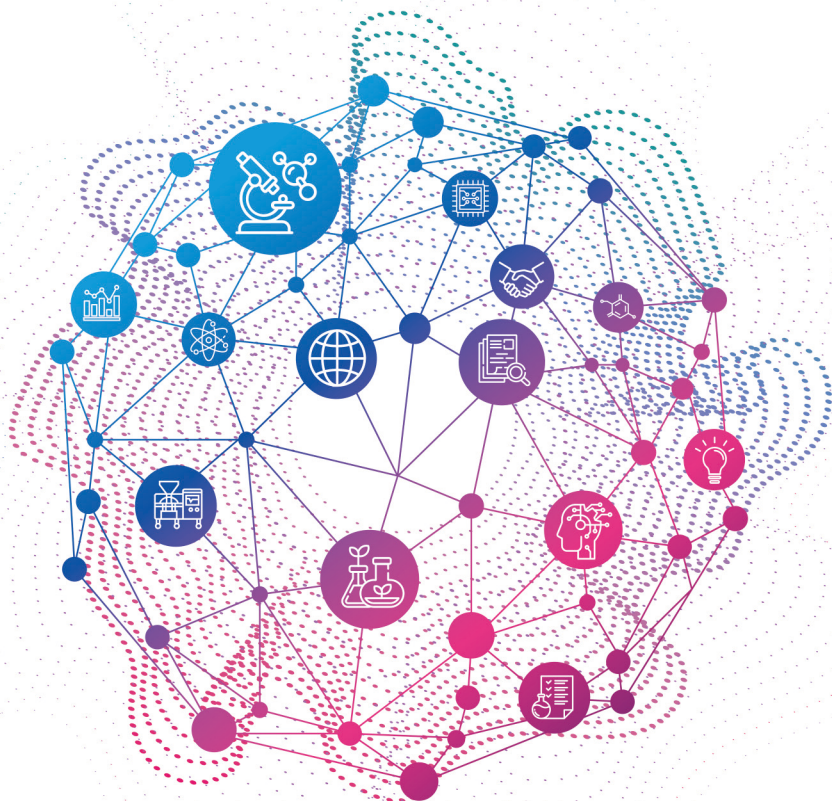
International R&D Industry-Con

연구산업 AI 융합으로 R&D 혁신과 국가 경쟁력 강화

2025.10.28^화 – 29^수
코엑스 마곡 전시장



▲ 홈페이지 바로가기



주 최 _



과학기술정보통신부
Ministry of Science and ICT

공
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주
관 _



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과학기술사업화진흥원



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KOREA BASIC SCIENCE INSTITUTE



대전테크노파크
DAEJEON TECHNOPARK

2025 KCS

136th General Meeting & Exhibition

October 22-24, 2025, Changwon Exhibition Convention Center

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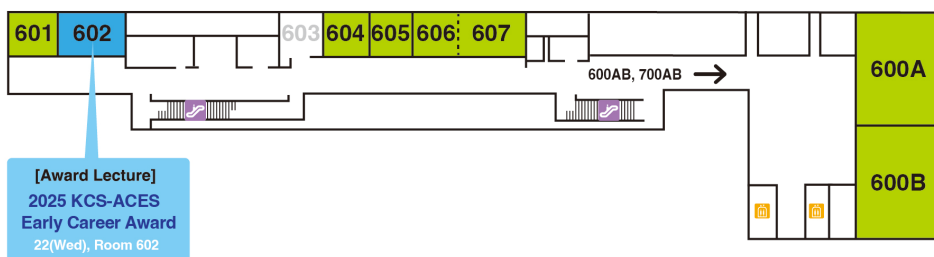
Guide Map

7F

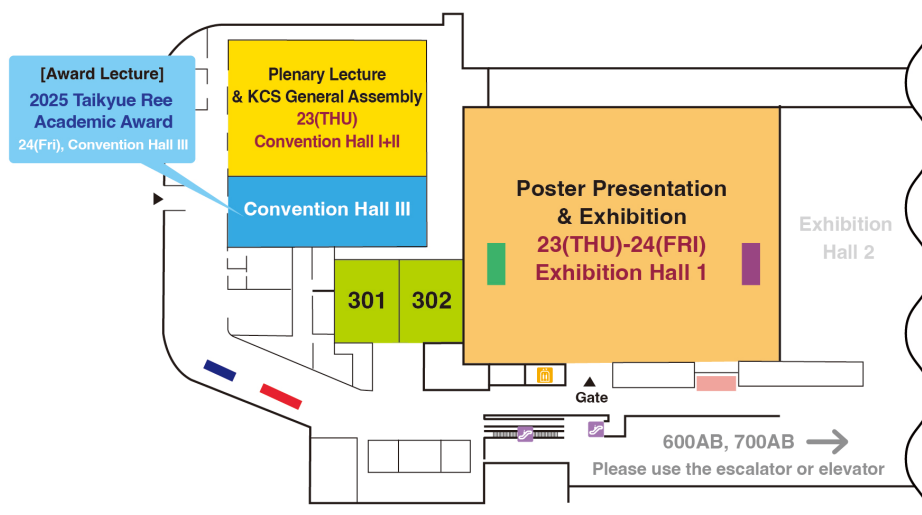
Please use the elevator to reach
Rooms 700A and 700B



6F

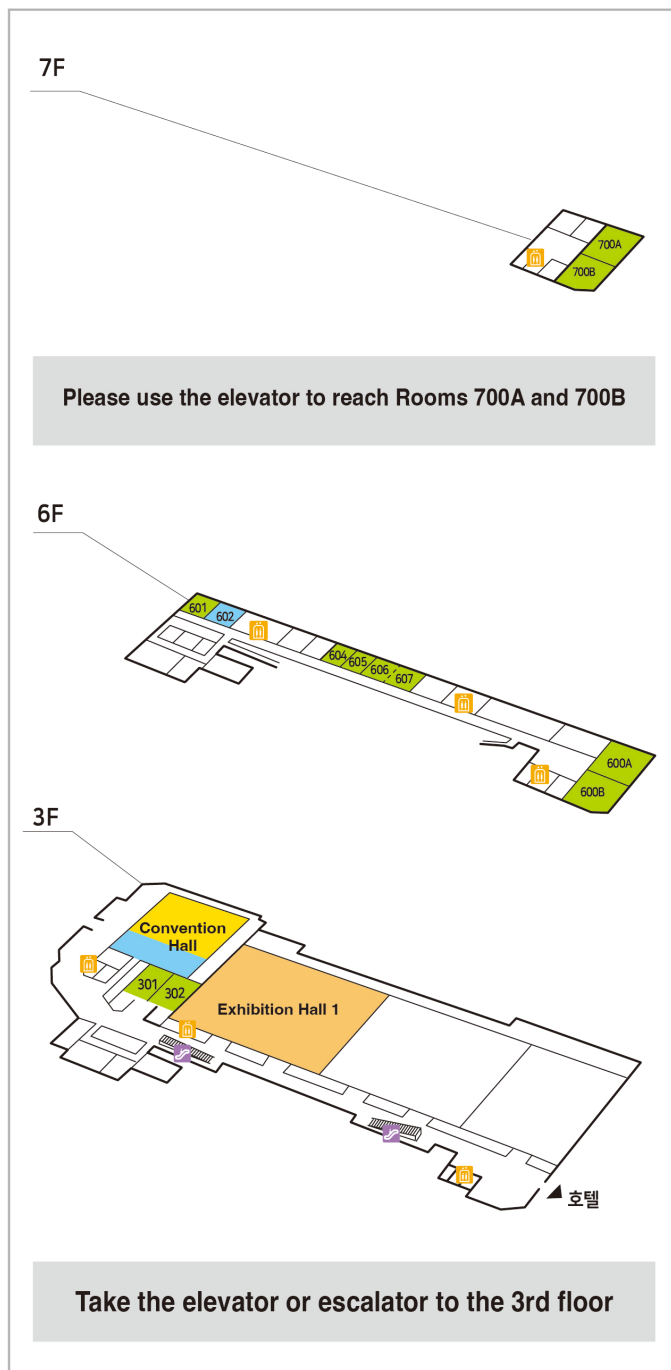


3F



- Program Book
- Registration
- Luggage Storage
- Coffee & Snacks
- Future Chemistry Research Presentation for High School Students

Guide Map



October 22(WED)

301	SRC Symposium
302	MSIT Policy Briefing SCSK Symposium
602	[Award Lecture] 2025 KCS-ACES Early Career Award JKCS Symposium
604+605	4GSR Symposium
606+607	Chemistry Symposium for Future Innovation
600A	IBS Symposium
600B	BKCS Symposium

October 23(THU)

301	Analytical Chemistry
302	Polymer Chemistry
601	Environmental Energy
602	Life Chemistry
604	Chemistry Education
605	Industrial Chemistry
606+607	Material Chemistry
600A	Physical Chemistry
600B	Electrochemistry
700A	Inorganic Chemistry
700B	Medicinal Chemistry
Convention Hall III	Organic Chemistry
Convention Hall I+II	Plenary Lecture KCS General Assembly
Exhibition Hall 1	Poster Presentation 1 Exhibition

October 24(FRI)

301	Analytical Chemistry
302	Polymer Chemistry
602	Life Chemistry Special Science Talk for Middle and High School Students
604	Chemistry Education
605	Industrial Chemistry
606+607	Material Chemistry
600A	Physical Chemistry
600B	Electrochemistry
700A	Inorganic Chemistry
700B	Medicinal Chemistry
Convention Hall III	[Award Lecture] 2025 Taikyue Ree Academic Award Organic - Inorganic Joint Symposium Organic Chemistry
Exhibition Hall 1	Poster Presentation 2 Exhibition

General Information

- Date: October 22~24, 2025
- Venue: Changwon Exhibition Convention Center, Changwon, Korea

1. Membership and Registration Fees

Category		Membership Fees	On-site Registration Fees	
			A	B (Membership fees waived)
KCS Members	Regular Members (Lifetime)*	-	KRW 120,000	-
	Regular Members (Annual)	KRW 70,000	KRW 120,000	KRW 190,000
	Educational Members	KRW 50,000	KRW 70,000	KRW 120,000
	Student Members	KRW 50,000	KRW 70,000	KRW 120,000
	Undergraduate Members	KRW 10,000	-	
General Participants (Non-member)		-	KRW 250,000	

※ Registration fee waivers for undergraduate students are available. Please bring your student ID card to prove your student status.
(But, all authors and presenters of abstracts are required to register and pay the appropriate registration fees.)

*Regular Members (Lifetime): KRW 1,400,000 (20 years of annual regular membership fee at the time of joining)

2. Poster Presentations

■ Schedules

Venue	Presentation Date & Time	Division (Topic)	Mounting	Demounting
Exhibition Hall 1 (3F)	October 23 (THU) 11:00~13:00	Polymer Chemistry, Inorganic Chemistry, Organic Chemistry, Medicinal Chemistry, Electrochemistry, Environmental Energy	09:00~11:00	15:00~16:00
	October 24 (FRI) 11:00~13:00	Industrial Chemistry, Physical Chemistry, Analytical Chemistry, Life Chemistry, Material Chemistry, Chemistry Education	09:00~11:00	15:00~16:00

■ Presentations

- Presenters should be in attendance at their poster board during the assigned time of their poster presentation.

Time & Activity	from 11:00 to 12:00	from 12:00 to 13:00
Poster Presentation	Even Numbers	Odd numbers
Research Exchanges with Other Presenters	Odd numbers	Even Numbers

- A poster presenter is required to stand by the poster during the scheduled poster presentation to answer questions from attendees.
- If your posters are not hung on board during all your presentation time, you will be considered as not to have attended and your name will be included in the lists of absent presenters.

■ Poster Presentation Area

- Poster board locations and allocated codes will be available on the bulletin board outside of the Exhibition Hall 1 (3F).
- A poster board number on poster display board indicates the location of assigned poster display. Please do NOT remove the number.

■ Setting up and Taking down

- Please follow the schedule outlining times for mounting and demounting your poster.
- Each poster should be placed on the numbered board assigned to each presenter.
- Material to pin up your poster will be provided at the venue.
- You are responsible for setting-up and taking down of your own poster. Unclaimed posters are not the responsibility of the organizers or KCS. And they will be disposed following your day without notice.

■ KCS Poster Awards

- DONGWOO FINE-CHEM Poster Award
- BIONEER Poster Award
- BKCS Poster Award
- RSC Poster Award
- KCS Poster Award
- KCS Sponsorship Poster Award
(Selected by Student Members)

3. KCS General Assembly and General Meetings of Divisions

■ KCS General Assembly

October 23 (THU) 13:00~15:30, Convention Hall I+II (3F)
(Part 1. Plenary Lecture 13:00~14:30, Part 2. General Assembly 14:30~15:30)

■ KCS Awards

- 2025 Taikyue Ree Academic Award: Injae Shin (Yonsei University)
- Chemical Industry Leadership Award: Sang Jo Lee (HanChem)
- Technology Innovation Award: Tae Kyo Park (IntoCell)
- Excellent Chemistry Teacher Award: Youngha Hwang (Cheongok Middle School)
- Excellent Doctoral Dissertation Award: Dohyun Kim (UNIST), Minhyuk Kim (UNIST), Joohan Nam (UNIST), Juhyeon Park (Gyeongsang National University), Jusung An (Korea University), Wooseok Lee (KAIST), Na Jin Jeong (Korea National University of Education)
- Excellent Regional Chapter Award: Gyeongnam Regional Chapter
- 2025 KCS-ACES Early Career Award: Doory Kim (Hanyang University)
- Sigma-Aldrich Chemist Award: Jaeheung Cho (UNIST), Jin Kyoong Park (Seoul National University)
- i-SENS Woman Chemist Award: Hyunah Choo (KIST)

■ General Meetings of Divisions

- Polymer Chemistry: October 23 (THU) 17:45-18:15, Room 302
- Inorganic Chemistry: October 23 (THU) 17:40-18:10, Room 700A
- Analytical Chemistry: October 23 (THU) 17:40-18:00, Room 301
- Electrochemistry: October 23 (THU) 17:30-18:00, Room 600B

4. Notice

■ KCS No Recording Policy

The use of any device to capture images (e.g., cameras and camera phones) or sound (e.g., tape and digital recorders) or stream, upload or rebroadcast speakers or presentations is strictly prohibited at all official KCS meetings and events without express written consent from the KCS.

5. Lucky Draw & Best Posters Awards Ceremony

Draw Date	October 23 (THU), 18:00 at 3F Lobby
	October 24 (FRI), 16:30 at 3F Lobby

* Please check the notice board on-site.

Scientific Programs

Type	Division	No.	Subject	Schedule	Code	Room No.
Plenary Lecture	KCS	1	[Plenary Lecture] 1. Myeong Hee Moon (Yonsei University) 2. Mounji G. Bawendi (Massachusetts Institute of Technology)	23 (THU) 13:00-14:30	PLEN	Convention Hall I+II
Award Lecture	KCS	2	[2025 Taikyue Ree Academic Award] Injae Shin (Yonsei University)	24 (FRI) 13:30-14:20	AWARD1	Convention Hall III
	KCS	3	[2025 KCS-ACES Early Career Award] Doory Kim (Hanyang University)	22 (WED) 14:30-15:00	AWARD2	602
Symposium	KCS	4	[4GSR Symposium] Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities	22 (WED) 13:00-18:00	KCS1	604+605
		5	[IBS Symposium] Frontiers in Asymmetric Catalysis	22 (WED) 13:30-17:50	KCS2	600A
		6	[SRC Symposium] Advances in Nanomaterials Science	22 (WED) 13:50-17:40	KCS3	301
		7	[BKCS Symposium] BKCS, Collaborative Projects in Korean Chemistry	22 (WED) 14:00-17:05	KCS4	600B
		8	[JKCS Symposium] Innovation and Challenge in JKCS	22 (WED) 15:00-18:00	KCS5	602
		9	[Chemistry Symposium for Future Innovation] Chemistry at the Quantum Frontier	22 (WED) 13:00-18:00	KCS6	606+607
		10	[SCSK Symposium] The Korean Cosmetics Industry: K-Beauty Technologies and Innovations	22 (WED) 15:00-17:30	KCS7	302
	Polymer Chemistry	11	International Symposium on Macromolecular Materials	23 (THU) 15:40-18:15	POLY1	302
		12	Special Symposium by Mid- and Early-Career Chemists	24 (FRI) 09:00-11:00	POLY2	302
		13	Recent Advances in Polymer-Based Electronic Materials	24 (FRI) 14:30-16:20	POLY3	302
	Industrial Chemistry	14	Recent Technology for Advanced Membranes	23 (THU) 15:30-17:40	IND1	605
		15	Convergence of Biotechnology and Nanotechnology I	24 (FRI) 09:00-11:00	IND2	605
		16	Convergence of Biotechnology and Nanotechnology II	24 (FRI) 14:30-16:30	IND3	605
	Inorganic Chemistry	17	Recent Advances in Bioinorganic Chemistry	23 (THU) 15:30-18:10	INOR1	700A
		18	Recent Advances in Coordination Chemistry	24 (FRI) 14:30-16:10	INOR3	700A
	Physical Chemistry	19	The Nano-Physical Chemistry Convergence Symposium	23 (THU) 15:40-17:30	PHYS1	600A
		20	Recent Trends in Computational Chemistry Across Academia and Industry	24 (FRI) 14:30-16:50	PHYS2	600A
	Analytical Chemistry	21	Current Advances in Hyper-Spectral Imaging Analysis	23 (THU) 15:30-18:00	ANAL1	301
		22	Current Advances in Laser-Based Spectroscopy	24 (FRI) 09:10-11:00	ANAL2	301
	Life Chemistry	23	Recent Trends in Molecular Machine Biochemistry	23 (THU) 15:40-17:40	LIFE1	602
		24	Recent Trends in Omics-Based Molecular Profiling	24 (FRI) 09:00-11:00	LIFE2	602
	Organic-Inorganic Chemistry	25	[Joint Symposium] Joint Symposium on Organic and Inorganic Chemistries	24 (FRI) 09:00-11:00	ORGN2+INOR2	Convention Hall III
	Organic Chemistry	26	Recent Advances in Redox-Enabled Organic Reactions	23 (THU) 15:40-18:00	ORGN1	Convention Hall III
		27	Unconventional Tools in Organic Chemistry	24 (FRI) 14:30-16:10	ORGN3	Convention Hall III
	Medicinal Chemistry	28	Targeting the Untargeted: Korean Industry's Leap in First-In-Class Drug Discovery	23 (THU) 15:40-17:40	MEDI1	700B
		29	Award Lecture: Excellence in Medicinal Chemistry	24 (FRI) 09:00-10:55	MEDI2	700B

Symposium	Material Chemistry	30	Cutting-Edge Materials Chemistry for 2-D Materials	23 (THU) 15:40-18:10	MAT1	606+607
		31	Cutting-Edge Materials Chemistry for Energy Materials	24 (FRI) 09:00-11:40	MAT2	606+607
		32	Recent Progress in Battery Materials	24 (FRI) 14:30-16:30	MAT3	606+607
	Electrochemistry	33	In-Silico Design of Electrochemical Materials	23 (THU) 15:40-18:00	ELEC1	600B
		34	Development of Innovative Electrochemical Systems	24 (FRI) 09:00-11:00	ELEC2	600B
	Chemistry Education	35	Proposal for Future-Oriented Standardization of Chemistry Education and Test Questions for Integrated Science Chemistry	23 (THU) 15:40-17:00	EDU	604
	Environmental Energy	36	Electrocatalytic Valorization of Carbon and Nitrogen Compounds	23 (THU) 15:40-17:40	ENVR	601
Oral Presentation	Polymer Chemistry	37	Oral Presentation for Young Polymer Scientists	23 (THU) 09:00-11:00	POLY.O	302
	Inorganic Chemistry	38	Oral Presentation of Young Scholars in Inorganic Chemistry	23 (THU) 09:30-11:10	INOR.O	700A
	Physical Chemistry	39	Oral Presentation for Leading, Emerging, and Young Physical Chemists I	23 (THU) 09:00-11:00	PHYS1.O	600A
		40	Oral Presentation for Leading, Emerging, and Young Physical Chemists II	24 (FRI) 09:00-11:00	PHYS2.O	600A
	Analytical Chemistry	41	Oral Presentation of Young Analytical Chemists I	23 (THU) 09:00-10:57	ANAL1.O	301
		42	Oral Presentation of Young Analytical Chemists II	24 (FRI) 14:30-16:27	ANAL2.O	301
	Life Chemistry	43	Oral Presentation for Young Scientists in Life Chemistry	23 (THU) 09:00-11:00	LIFE.O	602
	Organic Chemistry	44	Oral Presentations for Young Organic Chemists	23 (THU) 09:00-11:00	ORGN.O	Convention Hall III
	Medicinal Chemistry	45	Oral Presentation of Young Medicinal Chemists	23 (THU) 09:00-11:00	MEDI.O	700B
	Material Chemistry	46	Oral Presentation for Young Material Chemists	23 (THU) 09:00-11:00	MAT.O	606+607
	Electrochemistry	47	Oral Presentation of Young Electrochemists	23 (THU) 09:00-11:00	ELEC.O	600B
	Chemistry Education	48	New Trends in Chemistry Education	24 (FRI) 09:00-11:00	EDU.O	604
	Environmental Energy	49	Integration of Chemistry for Solving Environmental and Energy Challenges	23 (THU) 09:00-11:00	ENVR.O	601

Award Lecture in Division

Polymer Chemistry	• TCI Polymer Chemistry Early Career Scientist Academic Award - Chang-Geun Chae (Korea Research Institute of Chemical Technology) : 24 (FRI) 09:00-09:25, Room 302 • Polymer Chemistry Excellence Award - Ja-Hyoung Ryu (UNIST) : 24 (FRI) 10:35-11:00, Room 302
Inorganic Chemistry	Si-Joong Kim Academic Award - Wonyoung Choe (UNIST) : 23 (THU) 17:10-17:40, Room 700A
Physical Chemistry	• Kim Myung Soo Award - Jeong Young Park (KAIST) : 23 (THU) 15:40-16:10, Room 600A • Young Physical Chemist Award 1 - Hye Ran Koh (Chung-Ang Univ.) : 24 (FRI) 14:30-15:00, Room 600A • Young Physical Chemist Award 2 - Seung Kyu Min (UNIST) : 24 (FRI) 15:00-15:30, Room 600A
Analytical Chemistry	• Young In Outstanding Analytical Chemistry Research Award - Tae-Young Kim (GIST) : 23 (THU) 17:00-17:20, Room 301 • Distinguished Contribution in Analytical Technology - Jaeick Lee (KIST) : 23 (THU) 17:20-17:40, Room 301
Life Chemistry	Sung-Kee Chung Award - Young-Tae Chang (POSTECH) : 23 (THU) 10:20-11:00, Room 602
Organic Chemistry	Chang Sae Hee Award - Hong Geun Lee (Seoul National Univ.) : 23 (THU) 15:40-16:10, Convention Hall III
Medicinal Chemistry	Excellence in Medicinal Chemistry - Jae Yeol Lee (Kyung Hee Univ.) : 24 (Fri) 10:15-10:55, Room 700B
Material Chemistry	• Jin-Ho Choy Academic Award - Seung-Tae Hong (DGIST) : 23 (THU) 17:40-18:10, Room 606+607 • Young Material Chemists Award 1 - Jin-Sil Choi (Hanbat Univ.) : 24 (FRI) 11:00-11:20, Room 606+607 • Young Material Chemists Award 2 - Jerome Hyun (Ewha Womans Univ.) : 24 (FRI) 11:20-11:40, Room 606+607
Electrochemistry	• i-SENS Young Electrochemist Award - Jun Hui Park (Chungbuk National Univ.) : 23 (THU) 10:30-11:00, Room 600B • Choi Kyu Won Award - Jin Ho Bang (Hanyang Univ.) : 24 (FRI) 10:30-11:00, Room 600B

Poster Presentations

Poster Presentations

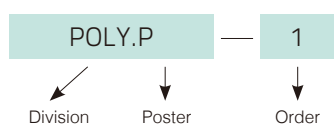
- Presenters should be in attendance at their poster board during the assigned time of their poster presentation.
- Posters Presentations: Two hours on Thursday and Friday
- Poster presenters need to check their presenting numbers.

Time & Activity	from 11:00 to 12:00	from 12:00 to 13:00
Poster Presentation	Even Numbers	Odd numbers
Research Exchanges with Other Presenters	Odd numbers	Even Numbers

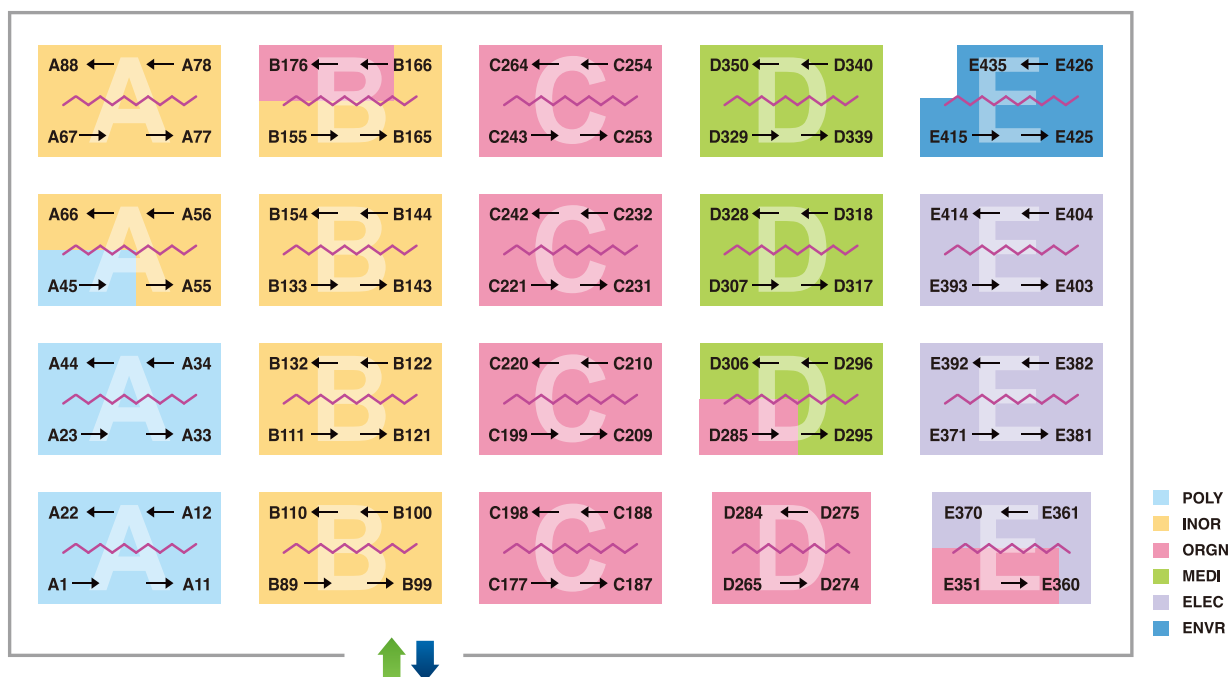
October 23 (THU) - 24 (FRI), 11:00-13:00, Exhibition Hall 1 (3F)

Division	No.	Code	Date
Polymer Chemistry	50	POLY.P	23 (THU) 11:00-13:00
Industrial Chemistry	51	IND.P	24 (FRI) 11:00-13:00
Inorganic Chemistry	52	INOR.P	23 (THU) 11:00-13:00
Physical Chemistry	53	PHYS.P	24 (FRI) 11:00-13:00
Analytical Chemistry	54	ANAL.P	24 (FRI) 11:00-13:00
Life Chemistry	55	LIFE.P	24 (FRI) 11:00-13:00
Organic Chemistry	56	ORGN.P	23 (THU) 11:00-13:00
Medicinal Chemistry	57	MEDI.P	23 (THU) 11:00-13:00
Material Chemistry	58	MAT.P	24 (FRI) 11:00-13:00
Electrochemistry	59	ELEC.P	23 (THU) 11:00-13:00
Chemistry Education	60	EDU.P	24 (FRI) 11:00-13:00
Environmental Energy	61	ENVR.P	23 (THU) 11:00-13:00

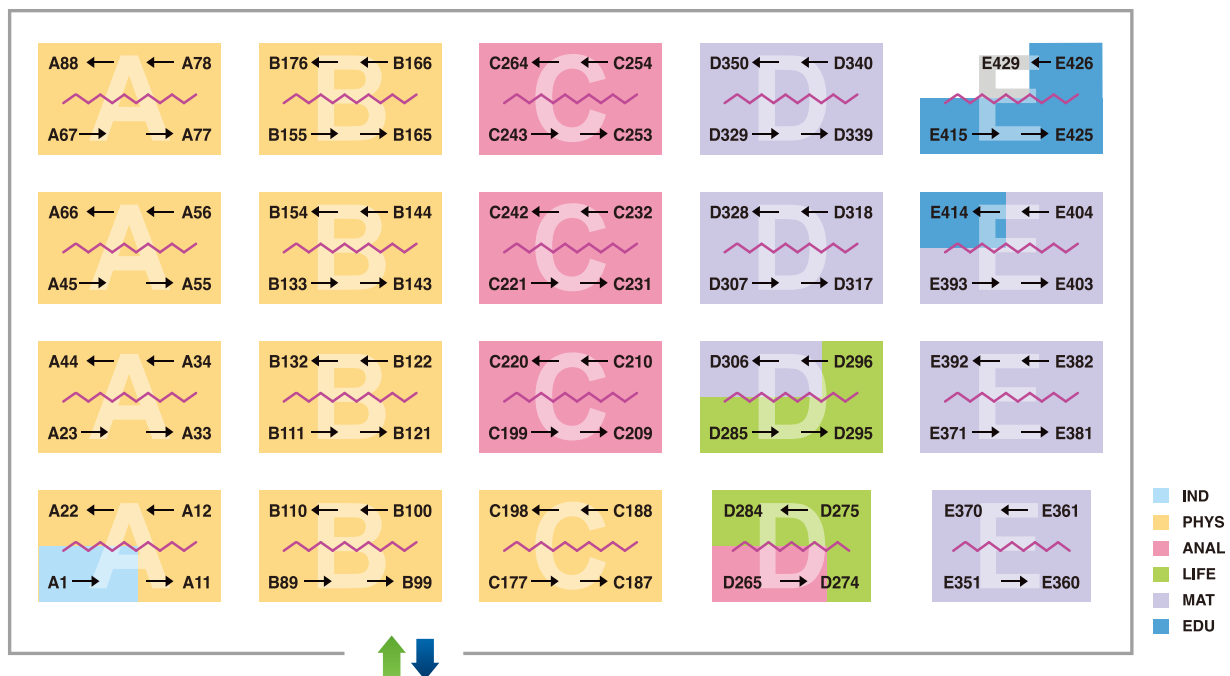
How to read



October 23 (THU) 11:00-13:00, Exhibition Hall 1 (3F)



October 24 (FRI) 11:00-13:00, Exhibition Hall 1 (3F)



Program Overview-22 (WED)

22 (WED)						
301	302	602	604+605	606+607	600A	600B
6 KCS3 [SRC Symposium] Advances in Nanomaterials Science (13:50-17:40)	[MSIT Policy Briefing] New Government's Basic Research Policy (14:00-14:30)		4 KCS1 [4GSR Symposium] Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities (13:00-18:00)	9 KCS6 [Chemistry Symposium for Future Innovation] Chemistry at the Quantum Frontier (13:00-18:00)	5 KCS2 [IBS Symposium] Frontiers in Asymmetric Catalysis (13:30-17:50)	7 KCS4 [BKCS Symposium] BKCS, Collaborative Projects in Korean Chemistry (14:00-17:05)
		3 AWARD2 [2025 KCS-ACES Early Career Award] Doory Kim Hanyang University (14:30-15:00)				
	10 KCS7 [SCSK Symposium] The Korean Cosmetics Industry: K-Beauty Technologies and Innovations (15:00-17:30)	8 KCS5 [JKCS Symposium] Innovation and Challenge in JKCS (15:00-18:00)				

Program Overview-23 (THU)

23 (THU)												
301	302	601	602	604	605	606+607	600A	600B	700A	700B	Convention Hall III	Exhibition Hall 1
41 ANAL1.O Oral Presentation of Young Analytical Chemists I (09:00-10:57)	37 POLY.O Oral Presentation for Young Polymer Scientists (09:00-11:00)	49 ENVR.O Integration of Chemistry for Solving Environmental and Energy Challenges (09:00-11:00)	43 LIFE.O Oral Presentation for Young Scientists in Life Chemistry (09:00-10:20) Award Lecture: Sung-Kee Chung Award Young-Tae Chang (POSTECH) (10:20-11:00)			46 MAT.O Oral Presentation for Young Material Chemists (09:00-11:00)	39 PHYS1.O Oral Presentation for Leading, Emerging, and Young Physical Chemists I (09:00-11:00)	47 ELEC.O Oral Presentation of Young Electrochemists (09:00-10:30) Award Lecture: I-SENS Young Electrochemist Award Jun Hui Park (Chungbuk National Univ.) (10:30-11:00)	38 INOR.O Oral Presentation of Young Scholars in Inorganic Chemistry (09:30-11:00)	45 MEDI.O Oral Presentation of Young Medicinal Chemists (09:00-11:00)	44 ORGN.O Oral Presentations for Young Organic Chemists (09:00-11:00)	
Poster Presentation 1 (11:00-13:00) - Exhibition Hall 1 (3F) POLY / INOR / ORGN / MEDI / ELEC / ENVR												
KCS General Assembly - Convention Hall I-II (3F) 1 Part 1. Plenary Lecture (13:00-14:30) - 1. Myeong Hee Moon (Yonsei University) 2. Mounqi G. Bawendi (MIT) Part 2. General Assembly (14:30-15:30)												
21 ANAL1 Current Advances in Hyper-Spectral Imaging Analysis (15:30-17:00) Award Lecture: Young In Outstanding Analytical Chemistry Research Award Tae-Young Kim (GIST) (17:00-17:20) Award Lecture: Distinguished Contribution in Analytical Technology Jaekick Lee (KIST) (17:20-17:40) Analytical Chemistry Division General Meeting (17:40-18:00)	11 POLY1 International Symposium on Macromolecular Materials (15:40-17:45) Polymer Chemistry Division General Meeting (17:45-18:15)	36 ENVR Electrocatalytic Valorization of Carbon and Nitrogen Compounds (15:40-17:40)	23 LIFE1 Recent Trends in Molecular Machine Biochemistry (15:40-17:40)	35 EDU Proposal for Future-Oriented Standardization of Chemistry Education and Test Questions for Integrated Science Chemistry (15:40-17:00)	14 IND1 Recent Technology for Advanced Membranes (15:30-17:40)	30 MAT1 Cutting-Edge Materials Chemistry for 2-D Materials (15:40-17:40) Award Lecture: Jin-Ho Choy Academic Award Seung-Tae Hong (DGIST) (17:40-18:10)	19 PHYS1 The Nano-Physical Chemistry Convergence Symposium (16:10-17:30)	Award Lecture: Kim Myung Soo Award Jeong Young Park (KAIST) (15:40-16:10) 33 ELEC1 In-Silico Design of Electrochemical Materials (15:40-17:30) Electrochemistry Division General Meeting (17:30-18:00)	17 INOR1 Recent Advances in Bioinorganic Chemistry (15:30-17:10) Award Lecture: Si-Joong Kim Academic Award Wonyoung Choe (UNIST) (17:10-17:40) Inorganic Chemistry Division General Meeting (17:40-18:10)	28 MEDI1 Targeting the Untargeted: Korean Industry's Leap in First-In-Class Drug Discovery (15:40-17:20) Panel Discussion (17:20-17:40)	Award Lecture: Chang Sae Hee Award Hong Geun Lee (Seoul National Univ.) (15:40-16:10) 26 ORGN1 Recent Advances in Redox-Enabled Organic Reactions (16:10-18:00)	Exhibition

Program Overview-24 (FRI)

24 (FRI)											
301	302	601	602	604	605	606+607	600A	600B	700A	700B	Convention Hall III
22 ANAL2 Current Advances in Laser-Based Spectroscopy (09:10-11:00)	Award Lecture: TCI Polymer Chemistry Early Career Scientist Academic Award Chang-Geun Chae (KRICT) (09:00-09:25) 12 POLY2 Special Symposium by Mid- and Early-Career Chemists (09:25-10:35) Award Lecture: Polymer Chemistry Excellence Award Ja-Hyoung Ryu (UNIST) (10:35-11:00)		24 LIFE2 Recent Trends in Omics-Based Molecular Profiling (09:00-11:00)	48 EDU.O New Trends in Chemistry Education (09:00-11:00)	15 IND2 Convergence of Biotechnology and Nano-technology I (09:00-11:00)	31 MAT2 Cutting-Edge Materials Chemistry for Energy Materials (09:00-11:00) Award Lecture: Young Material Chemists Award Jin-Sil Choi (Hanbat Univ.) Jerome Hyun (Ewha Womans Univ.) (11:00-11:40)	40 PHYS2.O Oral Presentation for Leading, Emerging, and Young Physical Chemists II (09:00-11:00)	34 ELEC2 Development of Innovative Electrochemical Systems (09:00-10:30) Award Lecture: Choi Kyu Won Award Jin Ho Bang (Hanyang Univ.) (10:30-11:00)		23 MEDI2 Award Lecture: Excellence in Medicinal Chemistry (09:00-10:15) 25 ORGN2+ INOR2 [Joint Symposium] Joint Symposium on Organic and Inorganic Chemistries (09:00-11:00) Award Lecture: Excellence in Medicinal Chemistry Jae Yeol Lee (Kyung Hee Univ.) (10:15-10:55)	Exhibition Hall 1
Poster Presentation 2 (11:00-13:00) - Exhibition Hall 1 (3F) IND / PHYS / ANAL / LIFE / MAT / EDU											Exhibition
Lunch Break (13:00-13:30)											
2 Award Lecture - 2025 Taikyue Ree Academic Award - Convention Hall III (3F) (13:30-14:20) Injae Shin (Yonsei University)											
42 ANAL2.O Oral Presentation of Young Analytical Chemists II (14:30-16:27)	13 POLY3 Recent Advances in Polymer-Based Electronic Materials (14:30-16:20)				16 IND3 Convergence of Biotechnology and Nano-technology II (14:30-16:30)	32 MAT3 Recent Progress in Battery Materials (14:30-16:30)	Award Lecture: Young Physical Chemist Award Hye Ran Koh (Chung-Ang Univ.) Seung Kyu Min (UNIST) (14:30-15:30) 20 PHYS2 Recent Trends in Computational Chemistry Across Academia and Industry (15:30-16:50)		18 INOR3 Recent Advances in Coordination Chemistry (14:30-16:10)		27 ORGN3 Unconventional Tools in Organic Chemistry (14:30-16:10)
			Special Science Talk for Middle and High School Students (16:00-17:30)								

Plenary Lecture

October 23 (Thu), 13:00-13:45, Convention Hall I+II

Advances in Size-Selective Analysis of Biomacromolecules Using Field-Flow Fractionation Coupled with Mass Spectrometry

Chair : Dukjin Kang (Korea Research Institute of Standards and Science)



Myeong Hee Moon

Department of Chemistry,
Yonsei University, Korea

Brief Profiles

Present / Professor, Department of
Chemistry, Yonsei University, Korea

1991 / Ph.D., Department of Chemistry,
University of Utah, United States

1987 / B.S., Department of Chemistry,
Yonsei University, Korea

Building on over 30 years of research in analytical separation science, our laboratory has advanced the analytical power of Flow Field-Flow Fractionation (Flow FFF) coupled with Mass Spectrometry (MS) for the separation and characterization of bio-macromolecules in their native state. Flow FFF is a size-based separation technique that operates without a stationary phase, using an open, unpacked channel and aqueous carrier liquid—making it highly suitable for analyzing sensitive biological structures such as lipoproteins, extracellular vesicles (EVs), organelles, and metalloproteins without denaturation. This presentation highlights several innovations from our lab, including novel channel designs such as the frit-inlet asymmetrical channel enabling stopless sample injection, a hollow fiber-based disposable FFF system, and a two-dimensional separation strategy combining isoelectric focusing with Flow FFF to separate proteins by isoelectric point and hydrodynamic size. Off-line coupling of Flow FFF with nanoflow LC-ESI-MS/MS has enabled high-resolution size fractionation followed by detailed proteomic and lipidomic analyses. These techniques have been applied to biological samples related to Alzheimer's disease and prostate cancer for lipid profiling. Further efforts have focused on miniaturizing the Flow FFF system to enable on-line coupling with ESI-MS/MS for direct analysis of metalloproteins and lipid-containing particles without extraction. Applications include detection of disease-specific lipid species in EVs and lipoproteins from fluids such as serum and saliva. This work demonstrates the versatility of Flow FFF-MS for size-resolved biomolecular analysis and its potential in biomarker discovery and clinical diagnostics.

Plenary Lecture

October 23 (Thu), 13:45-14:30, Convention Hall I+II

Quantum Dots: From Curiosity to Technology

Chair : Sung Jee Kim (POSTECH)



Mounqi G. Bawendi

Department of Chemistry,
Massachusetts Institute of
Technology, United States

Brief Profiles

2023 Nobel Laureate in Chemistry

Present / Lester Wolfe Professor,
Department of Chemistry,
Massachusetts Institute of Technology,
United States

1988 / Ph.D., Department of Chemistry,
The University of Chicago, United States

Chemically synthesized quantum dots were one of the first engineered and chemically produced nano-materials to have widespread applications. The combination of quantum effects, nanometer dimensions, and a chemical synthesis provides a platform for exploring size dependent fundamental properties as well as a sandbox for developing new applications. This talk will cover the origin story of chemically synthesized quantum dots, their basic physics, the synthesis that unlocked their widespread study as a nanomaterial, an overview of their properties, and a few of their applications.

Award Lecture

2025 Taikyue Ree Academic Award

October 24 (Fri), 13:30-14:20, Convention Hall III

Artificial Ion Transporters Induce Cancer Cell Death

Chair : Seunghoon Shin (Hanyang University)



Injae Shin

Department of Chemistry,
Yonsei University, Korea

Brief Profiles

Present / Professor, Department of Chemistry,
Yonsei University, Korea

1995 / Ph.D., Department of Chemistry,
University of Minnesota, United States

1985 / B.S., Department of Chemistry,
Seoul National University, Korea

The ion transport properties and biological activities of several artificial ion transporters have been investigated. Pyridine diamide-strapped calix[4]pyrroles induce coupled chloride and sodium ion transport in cells, promoting cell death by elevating intracellular chloride and sodium ion concentrations. These calix[4]pyrrole transporters have been shown to trigger sodium chloride influx, increase the levels of reactive oxygen species, induce the release of cytochrome c from the mitochondria, and activate caspases. In addition, squaramide-based ion transporters promote sodium chloride influx into the cytosol. Their ion transport activity correlates with cytotoxicity, which is attributable to caspase-dependent apoptosis. Notably, one squaramide transporter was found to alter lysosomal pH, an effect ascribed to its ability to promote the efflux of chloride from the lysosome into the cytosol. This pH perturbation impairs lysosomal enzyme function and disrupts autophagic processes. Furthermore, calix[4]pyrrole-based ion-pair receptors which act as efficient Na^+/K^+ exchangers induce endoplasmic reticulum (ER) stress in cells by disrupting cation homeostasis, promote the generation of reactive oxygen species, and eventually enhance mitochondria-mediated apoptosis. Collectively, the findings suggest that synthetic ion transporters represent an attractive new approach to regulating biological processes by modulating intracellular ion concentrations that are normally maintained under the tight homeostatic control of cells.

Award Lecture

2025 KCS-ACES Early Career Award

October 22 (Wed), 14:30-15:00, Room 602

Super-Resolution Fluorescence Microscopy Beyond Bioimaging: Chemical Mechanisms and Applications

Chair : Changsik Song (Sungkyunkwan University)



Doory Kim

Department of Chemistry,
Hanyang University, Korea

Brief Profiles

Present / Associate Professor, Department
of Chemistry, Hanyang University, Korea

2017 / Postdoctoral Fellow, U.C. Berkeley,
United States

2015 / Ph.D., Department of Chemistry
and Chemical Biology, Harvard University,
United States

Super-resolution fluorescence microscopy (SRM) has advanced optical imaging by overcoming the diffraction limit, an achievement recognized by the 2014 Nobel Prize in Chemistry. The development and refinement of SRM techniques rely critically on the precise control of photochemical processes at the molecular level. In this presentation, I will detail our investigations into the photochemical principles that govern SRM, including the control of fluorophore photophysics to achieve nanoscale resolution. While SRM has been predominantly applied to biological imaging, I will further describe its extension to diverse chemical and material systems. These include single-molecule chemical sensing using spectrally resolved imaging, super-resolution imaging of semiconductor nanopatterns, and super-resolution chemical characterization of phase separation in polymer blend films. Collectively, these studies demonstrate the potential of SRM to enable simultaneous nanoscale structural imaging and localized chemical analysis in both biological and materials science contexts.

Scientific Programs

Symposium

KCS Symposium 1

October 22 (Wed), Room 604+605

Organizer



Kyeong Kyu Kim

Present Professor, Department of Precision Medicine, Sungkyunkwan University, Korea

1998 Postdoc, Department of Chemistry, UC Berkeley, United States

1994 Ph.D., Department of Chemistry, Seoul National University, Korea



Ki-Jeong Kim

Present Korea Senior Researcher, Pohang Accelerator Laboratory, POSTECH, Korea

2005-2008 Ph.D., Department of Chemistry, KAIST, Korea

1990-1993 M.S., Department of Physics, Chonbuk National University, Korea

Chair



Yeon-Gil Kim

Present Senior Scientist, Beamline Science, Pohang Accelerator Laboratory, Korea

2007 Ph.D., Department of Life Science, POSTECH, Korea



Changwan Ha

Present Scientist, 4GSR Research Division, Pohang Accelerator Laboratory, Korea

2022 Scientist, Institute of Material and Process Design, Helmholtz-Zentrum Hereon, Germany

2021 Ph.D., Faculty of Natural and Materials Science, Clausthal University of Technology, Germany



Kyeong Sik Jin

Present Senior Scientist, Pohang Accelerator Laboratory, POSTECH, Korea

Present Affiliate Professor, Division of Advanced Nuclear Engineering, POSTECH, Korea

2008 Ph.D., Department of Chemistry, POSTECH, Korea

Speaker



Kyung-Jin Kim

2012-Present Professor, School of Life Sciences, Kyungpook National University, Korea

2003-2012 Senior Scientist (Team Leader), Pohang Accelerator Laboratory, Korea

2002-2003 Research Assistant Professor, Department of Life Sciences, POSTECH, Korea



Jungwook Kim

2021-Present Associate Professor, Department of Chemistry, GIST, Korea

2016-2021 Assistant Professor, Department of Chemistry, GIST, Korea

2010-2016 Research Scientist, Department of Biochemistry, AECOM, United States

4. [4GSR Symposium] Beamlines of the Next-Generation Synchrotron Radiation Facility Korea-4GSR: Gateway to New Possibilities

Organizer: Kyeong Kyu Kim (Sungkyunkwan University)

Ki-Jeong Kim (POSTECH, Pohang Accelerator Laboratory)

Chair: Yeon-Gil Kim (Pohang Accelerator Laboratory)

13:00 **KCS1-1** Role of Synchrotron Facility for Plastic Bio-Recycling

Kyung-Jin Kim

School of Life Science and Biotechnology, Kyungpook National University, Korea

13:30 **KCS1-2** Structural Mechanisms of Bacterial Phospholipid Biosynthesis: From Membrane Association to Catalytic Specificity

Jungwook Kim

Department of Chemistry, GIST, Korea

14:00 **KCS1-3** Construction Progress of the Advanced Macromolecular Crystallography (MX) Beamline at Korea-4GSR

Mi-Jeong Kwak, Yeon-Gil Kim¹, Kijeong Kim*

Beamline Science Team, Pohang Accelerator Laboratory, Korea

¹*Life Science Chemical Structure Research Team, Pohang Accelerator Laboratory, Korea*

14:30 Coffee Break

Speaker



Mi-Jeong Kwak

2023- Present Project Scientist, 4GSR Research Division, Pohang Accelerator Laboratory, Korea

2021-2023 Postdoctoral Research Fellow, Department of Cancer Biology, Lerner Research Institute of Cleveland Clinic, United States

2018-2021 Senior Research Scientist I, Chong Kun Dang Research Institute in CKD Pharmaceutical Company, Korea



Kug-Seung Lee

Present Senior Researcher, Pohang Accelerator Laboratory, Korea

2023 Visiting Researcher, Ohio State University, United States

2012 Postdoc, University of Texas at Austin, United States



Ik Seon Kwon

Present Assistant Professor, Department of Energy Science & Engineering, Korea

2023-2024 Project Scientist, Pohang Accelerator Laboratory, POSTECH, Korea



Beomgyun Jeong

2016- Present Principal Researcher, Korea Basic Science Institute, Korea

2014-2016 Postdoc, Advanced Light Source, United States



In-Hui Hwang

Present Project Scientist, 4GSR Research Division, Pohang Accelerator Laboratory, Korea

2019-2023 Postdoc, X-ray Science Division, Argonne National Laboratory, United States

2013-2019 Graduate Student, XAFS-Nanos Laboratory, Jeonbuk National University, Korea



Tae Wu Kim

Present Assistant Professor, Department of Applied Chemistry, Kyung Hee University, Korea

2021 Postdoc, Chemical Sciences and Engineering Division, Argonne National Laboratory, United States

2016 Ph.D., Department of Chemistry, KAIST, Korea



Jaeyong Shin

Present Project Scientist, Pohang Accelerator Laboratory, Korea



Wonhyuk Jo

Present Senior Researcher, Research Center for Beamline, Korea Basic Science Institute, Korea

2022-2024 Beamline Instrumental Scientist, Materials Imaging and Dynamics, European XFEL, Germany

2019-2021 Postdoctoral Researcher, Coherent X-ray Scattering of Photon Science (FS-CXS), DESY, Germany

Chair: Changwan Ha (Pohang Accelerator Laboratory)

14:45 **KCS1-4** Introduction to X-ray Absorption Spectroscopy and Upgrade Plan for PLS-II BL8C

Kug-Seung Lee

Division of Energy Environment Research Team, Pohang Accelerator Laboratory, Korea

15:15 **KCS1-5** Phase Engineering of Two-Dimensional Transition Metal Dichalcogenide Nanosheets for Electrochemical Water Splitting

Ik Seon Kwon

Department of Energy Science & Engineering, Kunsan National University, Korea

15:35 **KCS1-6** Probing Chemical Interfaces Using Ambient Pressure X-ray Photoelectron Spectroscopy at KBSI

Beomgyun Jeong

Division of Materials Science, Korea Basic Science Institute, Korea

15:55 **KCS1-7** Advanced X-ray Spectroscopy Beamlines at Korea-4GSR for Material Science

In-Hui Hwang, Changwan Ha

Beamline Science Team, Pohang Accelerator Laboratory, Korea

16:25 Coffee Break

Chair: Kyeong Sik Jin (Pohang Accelerator Laboratory)

16:40 **KCS1-8** Deciphering Photocatalytic Reaction Mechanisms Using Time-Resolved X-ray Scattering and Spectroscopy

Tae Wu Kim

Department of Applied Chemistry, Kyung Hee University, Korea

17:10 **KCS1-9** Multi-Modal Characterization with Focused Ultrashort X-ray Pulses

Jaeyong Shin, Kijeong Kim*

Beamline Science Team, Pohang Accelerator Laboratory, Korea

17:30 **KCS1-10** Probing Dynamics in Soft Matter Systems Using Coherent X-ray Scattering at 4GSR

Wonhyuk Jo, In-Hui Hwang¹, Jaeyong Shin¹

Research Center for Beamline, Korea Basic Science Institute, Korea

¹ *Beamline Science Team, Pohang Accelerator Laboratory, Korea*

Organizer

**Sungwoo Hong**

Present Professor, Department of Chemistry, KAIST, Korea

Chair

**Kwangmin Shin**

Present Associate Professor, Department of Chemistry, Sungkyunkwan University, Korea

2018-2020 Postdoc, Department of Chemistry, MIT, United States

2017 Ph.D., Department of Chemistry, KAIST, Korea

**Eun Jeong Yoo**

Present Professor, Department of Applied Chemistry, Kyung Hee University, Korea

2011 Postdoc, Department of Chemistry, Scripps Research, United States

2009 Ph.D., Department of Chemistry, KAIST, Korea

Speaker

**Sukbok Chang**

2012-Present Director, Center for Catalytic Hydrocarbon Functionalizations, IBS, Korea

2002-Present Department of Chemistry, KAIST, Korea

**Sukwon Hong**

2012-Present Associate/Full Professor, Department of Chemistry, GIST, Korea

2005-2012 Assistant Professor, Department of Chemistry, University of Florida, United States

1998-2003 Ph.D., Chemistry (Advisor: Prof. Tobin Marks), Northwestern University, United States

**Han Yong Bae**

2019-Present Associate and Assistant Professor, Department of Chemistry, Sungkyunkwan University, Korea

2019 Assistant Professor, Department of Chemistry, UNIST, Korea

2015-2019 Postdoctoral Researcher, Max-Planck-Institut für Kohlenforschung, Germany

5. [IBS Symposium] Frontiers in Asymmetric Catalysis

Organizer: Sungwoo Hong (KAIST)

Chair: Kwangmin Shin (Sungkyunkwan University)

13:30 **KCS2-1** Asymmetric Formal Hydroamidation of Conjugated Alkenes**Sukbok Chang***IBS, Korea / Department of Chemistry, KAIST, Korea*14:00 **KCS2-2** Harnessing Anagostic C-H...Pd Interactions for Asymmetric C-N Cross-Coupling**Sukwon Hong***Department of Chemistry, GIST, Korea*14:30 **KCS2-3** Investigation of Catalytic Systems for Asymmetric Functionalization of Alkenes and Strained Bridged Rings**Sungwoo Hong***IBS, Korea / Department of Chemistry, KAIST, Korea*15:00 **KCS2-4** Superacid Counteranion as a Flexible-Coordinating Chiral Ligand for Asymmetric Organo-Bismuth Catalyzed Allylation**Han Yong Bae***Department of Chemistry, Sungkyunkwan University, Korea*

15:30 Coffee Break

Speaker



Mu-Hyun Baik

Present Professor, Department of Chemistry, KAIST, Korea

2000 Ph.D., Department of Chemistry, University of North Carolina, Chapel Hill, NC, United States

1995 B.S., Department of Chemistry, Heinrich Heine University, Dusseldorf, Germany



Seung Hwan Cho

2024-Present Professor, Department of Chemistry, POSTECH, Korea

2018-2024 Associate Professor, Department of Chemistry, POSTECH, Korea

2014-2018 Assistant Professor, Department of Chemistry, POSTECH, Korea



Sarah Yunmi Lee

2025-Present Associate Professor, Department of Chemistry, KAIST, Korea

2018-2025 Assistant/Associate Professor, Department of Chemistry, Yonsei University, Korea

2015-2017 NIH Postdoctoral Fellow, College of Chemistry, UC Berkeley, CA, United States



Do Hyun Ryu

2023-Present Center Director, Asymmetric Catalysis Design Center, Sungkyunkwan University, Korea

2022-Present Center Director, Chiral Material Analysis Center, Sungkyunkwan University, Korea

2005-Present Professor, Department of Chemistry, Sungkyunkwan University, Korea

Chair: Eun Jeong Yoo (Kyung Hee University)

15:50 **KCS2-5** Rationalizing Photoredox Reactions: Thermodynamics vs Kinetics

Mu-Hyun Baik

IBS, Korea / Department of Chemistry, KAIST, Korea

16:20 **KCS2-6** Transition-Metal-Catalyzed Enantiotopic-Group-Selective

Transformations of 1,1-Diborylalkanes

Seung Hwan Cho

Department of Chemistry, POSTECH, Korea

16:50 **KCS2-7** Stereodivergence in Catalytic Conjugate Additions

Sarah Yunmi Lee

Department of Chemistry, KAIST, Korea

17:20 **KCS2-8** Enantioselective Catalysis for the Synthesis of Chiral Molecules

Do Hyun Ryu

Department of Chemistry, Sungkyunkwan University, Korea

Organizer

**Jaeyoung Sung**

2024-Present Director, Global Science Research Center for Systems Chemistry, Korea

2015-2024 Director, Creative Research Initiative Center for Chemical Dynamics in Living Cells

2022-2023 Vice President of General Affairs, Korean Chemical Society, Korea

**Sung Jee Kim**

2005-Present Professor, Department of Chemistry, POSTECH, Korea

2003-2005 Postdoc, Department of Applied Physics, CALTECH, United States

2003 Ph.D., Department of Chemistry, MIT, United States

**Hae Sung Cho**

Present Associate Professor, Department of Chemistry, Chung-Ang University, Korea

2013 Ph.D., Department of Chemistry, KAIST, Korea

2005 B.S., Department of Chemistry, KAIST, Korea

Speaker

**Mounqi G. Bawendi**

Present Lester Wolfe Professor, Department of Chemistry, MIT, United States

1988 Ph.D., Department of Chemistry, The University of Chicago, United States

**Ji-Hyun Kim**

2024-Present Research Professor, Global Science Research Center for Systems Chemistry, Chung-Ang University, Korea

2009-2012 Postdoctoral Associate, Department of Chemistry, MIT, United States

2002-2008 Ph.D., Department of Chemistry, Seoul National University, Korea

**Jungwon Park**

Present Professor, School of Chemical and Biological Engineering, Seoul National University, Korea

2016 Research Associate, SEAS, Harvard University, United States

6. [SRC Symposium] Advances in Nanomaterials Science

Organizer: Jaeyoung Sung (Chung-Ang University / Global SRC for Systems Chemistry)

Sung Jee Kim (POSTECH)

Hae Sung Cho (Chung-Ang University)

Chair: Sung Jee Kim (POSTECH)

13:50 Opening Remarks

Jaeyoung Sung*Department of Chemistry, Chung-Ang University, Korea / Global SRC for Systems Chemistry, Korea*

<Plenary Lecture>

14:00 **KCS3-1** Colloidal Quantum Dots as Single Photon Quantum Emitters**Mounqi G. Bawendi***Department of Chemistry, Massachusetts Institute of Technology, United States*14:50 **KCS3-2** Unraveling Nanoparticle Growth: Beyond a Century-Old Theory**Ji-Hyun Kim**, Taeghwan Hyeon^{1,*}, Jaeyoung Sung*, Jungwon Park^{1,*}*Department of Chemistry, Chung-Ang University, Korea*¹*Department of Chemical and Biological Engineering, Seoul National University, Korea*

15:20 Coffee Break

Chair: Jaeyoung Sung (Chung-Ang University / Global SRC for Systems Chemistry)

15:30 **KCS3-3** Clusters to Quantum Dots**Sung Jee Kim***Department of Chemistry, POSTECH, Korea*16:00 **KCS3-4** Visualizing Nanoparticles by Real-Time Liquid Electron Microscopy**Jungwon Park***School of Chemical and Biological Engineering, Seoul National University, Korea*

16:30 Coffee Break

Speaker

Sangwoon Yoon



Present Professor, Department of Chemistry, Chung-Ang University, Korea

2003 Ph.D., Department of Chemistry, University of Wisconsin-Madison, United States

1996, 1994 M.S., B.S., Department of Chemistry, Seoul National University, Korea



Sunmin Ryu

Present Professor, Department of Chemistry, POSTECH, Korea

Chair: Hae Sung Cho (Chung-Ang University)

16:40 **KCS3-5** "Golden": Plasmonic Properties of Gold Nanoparticles and Their Assemblies

Sangwoon Yoon

Department of Chemistry, Chung-Ang University, Korea

17:10 **KCS3-6** Molecular Excitons in Two-Dimensional Organic Crystals

Sunmin Ryu

Department of Chemistry, POSTECH, Korea

Organizer

**Sungjin Park**

2010-Present Professor, Department of Chemistry, Inha University, Korea
2005 Ph.D., Department of Chemistry, KAIST, Korea
1998 B.S., Department of Chemistry, KAIST, Korea

**Sun-Joon Min**

2015-Present Professor, Department of Energy and Bio Sciences, Hanyang University ERICA, Korea
2008 Senior/Principle Researcher, KIST, Korea
2005 Ph.D., Department of Chemistry, UCLA, United States

Speaker

**So-Jung Park**

2019-Present Director, Center for Hybrid Interfacial Chemical Structure, Ewha Womans University, Korea
2015-Present Associate Editor, ACS Applied Materials and Interfaces (ACS)
2013-Present Professor, Department of Chemistry and Nanoscience, Ewha Womans University, Korea

**Jaeyoung Sung**

Present Professor, Department of Chemistry, Chung-Ang University, Korea
2024-Present Director, Global Science Research Center for Systems Chemistry, Korea
2015-2024 Director, Creative Research Initiative Center for Chemical Dynamics in Living Cells

**Haesik Yang**

2004-Present Professor, Department of Chemistry, Pusan National University, Korea
1999-2004 Senior Researcher, Electronics and Telecommunications Research Institute, Korea
1998-1999 Postdoctoral Scholar, Lawrence Berkeley National Laboratory, United States

**Jin Hee Ahn**

Present Professor, Department of Chemistry, GIST, Korea
Present CEO, JD Bioscience, Korea

**Jaebum Choo**

Present Professor, Department of Chemistry, Chung-Ang University, Korea
2019 Professor, Department of Bionano Engineering, Hanyang University, Korea
1994 Ph.D., Department of Chemistry, Texas A&M University, United States

7. [BKCS Symposium] BKCS, Collaborative Projects in Korean Chemistry

Organizer: Sungjin Park (Inha University)
Sun-Joon Min (Hanyang University)

Chair: Sungjin Park (Inha University)

14:00 Opening Remarks

Wonwoo Nam

Department of Chemistry & Nanoscience, Ewha Womans University, Korea

14:20 **KCS4-1** Dynamic Nanostructures via Assembly of Functional Nanoparticles and Polymers

So-Jung Park

Department of Chemistry & Nanoscience, Ewha Womans University, Korea

14:50 **KCS4-2** Supersaturation, Nucleation, and Phase Separation of Mesoscopic Systems

Jaeyoung Sung

Department of Chemistry, Chung-Ang University, Korea / Global SRC for Systems Chemistry, Korea

15:20 Coffee Break

Chair: Sun-Joon Min (Hanyang University)

15:35 **KCS4-3** Electron Mediators for Electrochemical Biosensors

Haesik Yang

Department of Chemistry, Pusan National University, Korea

16:05 **KCS4-4** Development of "Beyond Rule of Five" Drugs: Medium to High Molecular Weight Modalities Including Antibody-Drug Conjugates

Jin Hee Ahn

Department of Chemistry, GIST, Korea

16:35 **KCS4-5** Rapid and Highly Sensitive Pathogen Screening Using Nanoplasmonic SERS Sensors

Jaebum Choo

Department of Chemistry, Chung-Ang University, Korea

Symposium

KCS Symposium 5
October 22 (Wed), Room 602

Organizer

	Present	Professor, Department of Energy and Bio Sciences, Hanyang University, Korea
	2013	Postdoc, Cancer Systems Imaging, M.D. Anderson Cancer Center, United States
	2013	Ph.D., Department of Chemistry, Texas A&M University, United States

Chair

	Present	Professor, Department of Chemistry, Kyonggi University, Korea
	2011	Ph.D., Department of Chemistry, Northwestern University, United States
	2003	B.S., Department of Chemistry, Korea University, Korea

Speaker

	2023-Present	Assistant Professor, Department of Chemistry, Kangwon National University, Korea
	2021-2023	Research Associate, Cavendish Laboratory, University of Cambridge, United Kingdom
	2015-2021	Ph.D., Department of Chemistry, Northwestern University, United States
	Present	Assistant Professor, Department of Chemistry, Inha University, Korea
	2023	Postdoc, Department of Chemistry, The University of Chicago, United States
	2020	Ph.D., Department of Chemistry, Korea University, Korea
	Present	Assistant Professor, Department of Chemistry, Kongju National University, Korea
	2021	Postdoctoral Researcher, Centre for Craniofacial and Regenerative Biology, King's College London, United Kingdom
	2020	Postdoctoral Researcher, Bio-Nano Research Center, Korea Research Institute of Bioscience and Biotechnology, Korea
	2020.09-Present	Assistant Professor, Department of Chemistry, Kyonggi University, Korea
	2019.09-2020.08	Postdoc, Department of Chemical Engineering, University of Texas at Austin, United States
	2012.03-2018.03	Ph.D., Department of Chemistry, Korea University, Korea

8. [JKCS Symposium] Innovation and Challenge in JKCS

Organizer: Youngbok Lee (Hanyang University)

Chair: Youngbok Lee (Hanyang University)

15:00 **KCS5-1** Investigating Dynamics of Nanogap-Confined Molecules Using Single-Particle Nanoplasmonics

Gyeongwon Kang

Department of Chemistry, Kangwon National University, Korea

15:20 **KCS5-2** Optimal Pore Environment Screening in Robust Metal-Organic Frameworks for Nitrogen Trifluoride Capture

Dong Won Kang

Department of Chemistry, Inha University, Korea

15:40 **KCS5-3** Au Nanostructure-Based Surface-Enhanced Raman Scattering Substrate for Biochemical Sensing

Hongki Kim

Department of Chemistry, Kongju National University, Korea

16:00 **KCS5-4** Fabrication of Unconventional Heterointerfaces within Nanoparticle via Cation Exchange Reaction

Jongsik Park

Department of Chemistry, Kyonggi University, Korea

16:20 Coffee Break

Speaker



Sung-Eun Suh

Present Associate Professor,
Department of Chemistry,
Ajou University, Korea
2021-2025 Assistant Professor,
Department of Chemistry,
Ajou University, Korea



Sung Yun Son

2025.09- Present Associate Professor,
Department of Chemistry,
Kwangwoon University, Korea
2022.03- 2025.08 Assistant Professor,
Department of Chemistry,
Kwangwoon University, Korea



Najin Jeong

Present Researcher, Convergence
Education Research Institute,
Korea National University of
Education, Korea



Ara Jo

2021- Present Assistant Professor,
Department of Chemistry,
Kangwon National University,
Korea
2019-2021 Postdoc, Northwestern
University, United States
2018-2019 Postdoc, KIST, Korea

Chair: Young-Geun Ha (Kyonggi University)

16:40 **KCS5-5** Asymmetric Approach to Strained Chiral Scaffolds for Stereoretentive Transformations

Sung-Eun Suh

Department of Chemistry, Ajou University, Korea

17:00 **KCS5-6** Film-State Structural Modification of Conjugated Polymers via Thermally and Acid-Cleavable Side Chains for Enhanced Charge Transport and Stability

Sung Yun Son

Department of Chemistry, Kwangwoon University, Korea

17:20 **KCS5-7** Chemistry Education for the Future: Implementing Modeling through Generative AI

Najin Jeong

Convergence Education Research Institute, Korea National University of Education, Korea

17:40 **KCS5-8** A Potential-Holding Method for Reliable ECSA Determination on Platinum Electrode

Ara Jo

Department of Chemistry, Kangwon National University, Korea

Symposium

KCS Symposium 6

October 22 (Wed), Room 606+607

Organizer



Cheol-Ho Choi

Present Professor, Department of Chemistry, Kyungpook National University, Korea
1998 Ph.D., Department of Chemistry, Georgetown University, United States
1991 B.S./M.S., Department of Chemistry, Seoul National University, Korea

Chair



Chang Woo Myung

Present Associate Professor, Department of Energy, Sungkyunkwan University, Korea
2021 Postdoc, Yusuf Hamied Department of Chemistry, University of Cambridge, United Kingdom
2019 Ph.D., Department of Chemistry, UNIST, Korea



Yejin Kim

2024-Present Assistant Professor, Department of Chemistry, Seoul National University, Korea
2022-2024 Postdoc, Division of Chemistry and Chemical Engineering, California Institute of Technology, United States
2016-2022 Ph.D., Department of Chemistry, UNIST, Korea



Woojae Kim

2022-Present Assistant Professor, Department of Chemistry, Yonsei University, Korea
2020-2022 Postdoc, Department of Chemistry and Chemical Biology, Cornell University, United States
2014-2020 Ph.D., Department of Chemistry, Yonsei University, Korea

Speaker



Young Min Rhee

2017-Present Department of Chemistry, KAIST, Korea
2008-2017 Department of Chemistry, POSTECH, Korea



Joonsuk Huh

Present Associate Professor, Department of Chemistry, Yonsei University, Korea
Present Associate Professor, Department of Quantum Information, Yonsei University, Korea



Seunghoon Lee

2023-Present Assistant Professor, Department of Chemistry, Seoul National University, Korea
2019-2023 Postdoc, Division of Chemistry and Chemical Engineering, Caltech, United States



Seiichiro Ten-no

Present Professor, Department of Computer Systems, Kobe University, Japan
1994 Ph.D., Kyoto University, Japan
1989 B.S., Kyoto University, Japan

9. [Chemistry Symposium for Future Innovation] Chemistry at the Quantum Frontier

Organizer: Cheol-Ho Choi (Kyungpook National University)

1. Quantum Computing in Chemistry

Chair: Chang Woo Myung (Sungkyunkwan University)

13:00 **KCS6-1** Efficient Excited-State Energy Calculations via Symmetry-Preserving VQE and Shallow QPE

Young Min Rhee, Youngkyun Ahn

Department of Chemistry, KAIST, Korea

13:25 **KCS6-2** Energy Distribution of Quantum States and Quantum Algorithms

Joonsuk Huh

Department of Chemistry, Yonsei University, Korea

13:50 **KCS6-3** Quantum Interference Algorithm for Initial State Preparation

Seunghoon Lee

Department of Chemistry, Seoul National University, Korea

14:15 **KCS6-4** Challenges of Projective Transcorrelation toward Near-Term Quantum Computing

Seiichiro Ten-no

Department of Computer Systems, Kobe University, Japan

14:45 Coffee Break

Speaker



Hohjai Lee

2020-
Present Associate Professor,
Department of Chemistry,
GIST, Korea

2013-2019 Assistant Professor,
Department of Chemistry,
GIST, Korea



Jeongcheol Shin

2023-
Present Assistant Professor,
Department of Chemistry,
DukSung Women's University,
Korea

2021-2023 Postdoctoral Researcher,
Department of Chemistry,
KAIST, Korea (Prof. Kiyoung
Park)

2015-2021 Ph.D. Student, Department of
Chemistry, KAIST, Korea (Prof.
Kiyoung Park)



Junwoo Kim

2022-
Present Assistant Professor,
Department of Chemistry,
Chungbuk National
University, Korea

2020-2022 Postdoctoral Researcher,
Department of Chemistry,
Princeton University, United
States

2018-2020 Research Fellow, IBS Center
for Molecular Spectroscopy
and Dynamics, Korea
University, Korea



Hosung Seo

Present Associate Professor,
Department of Quantum
Information Engineering,
Sungkyunkwan University,
Korea



Hyeon Suk Shin

2024.03-
Present Director, Center for 2D
Quantum Heterostructures,
IBS, Korea

2024.06-
Present Professor, Department of
Chemistry, Sungkyunkwan
University, Korea

2024.03-
Present Professor, Department of
Energy Science,
Sungkyunkwan University,
Korea



Keunhong Jeong

Present Professor, Department of
Chemistry, Korea Military
Academy, Korea

Present Science Advisory Board
Member, OPCW

Present Quantum Frontier Strategy
Council, Ministry of Science
and ICT, Korea



Eunsung Lee

2014-
Present Associate Professor,
Department of Chemistry,
Seoul National University,
Korea

2013-2024 Assistant, Associate, and
Professor, Department of
Chemistry, POSTECH, Korea

2. Quantum Materials, Measurement, and Control in Chemistry

Chair: Yejin Kim (Seoul National University)

14:55 **KCS6-5** Trends and Characterization of Organic Molecular Spin Qubit Systems

Hohjai Lee

Department of Chemistry, GIST, Korea

15:20 **KCS6-6** Electronic and Spin Properties of Group 10 $M(NHCCS_2\bullet^-)_2$ Compounds and Their Redox Derivatives: Prospects for Molecular Qubit Applications

Jeongcheol Shin

Department of Chemistry, DukSung Women's University, Korea

15:45 **KCS6-7** Nonlinear Spectroscopy with Paired Single Photons

Junwoo Kim

Department of Chemistry, Chungbuk National University, Korea

16:10 Coffee Break

Chair: Woojae Kim (Yonsei University)

16:20 **KCS6-8** First-Principles Theory of Quantum Defects in Materials for Solid-State Quantum Information Science

Hosung Seo

Department of Quantum Information Engineering, Sungkyunkwan University, Korea

16:45 **KCS6-9** Hexagonal Boron Nitride as a Platform for Quantum Technologies

Hyeon Suk Shin

Department of Energy Science, Sungkyunkwan University, Korea

17:10 **KCS6-10** Quantum Magnetic Field Sensing and Quantum Hyperpolarization Techniques for Chemical Applications

Keunhong Jeong

Department of Chemistry, Korea Military Academy, Korea

17:35 **KCS6-11** Accessing Organic Radicals as Qubit Materials

Eunsung Lee

Department of Chemistry, Seoul National University, Korea

Symposium

KCS Symposium 7

October 22 (Wed), Room 302

Organizer



Sang Min Lim

Present Principal Researcher, Brain Science Institute, KIST, Korea
2013 Ph.D., Department of Chemistry and Chemical Biology, Harvard University, United States
2002 B.S., Department of Chemistry, Seoul National University, Korea

Chair



Ky-Youb Nam

Present President/CTO, Pharos iBio Co., Ltd., Korea
2007 Postdoc, University of Maryland Biotechnology Institute, MD, United States
2001 Ph.D., Department of Chemistry, Soongsil University, Korea

Speaker



Jeoungjin Ryu

Present Senior Researcher & Team Leader, COSMAX R&I Center, Korea
2005 M.S., Department of Biotechnology, Hankuk University of Foreign Studies, Korea



Ji Wook Jang

2015-Present Skincare Division, R&I Center, AMOREPACIFIC, Korea
2012 Ph.D., Department of Organic and Nano Material Engineering, Jeonbuk National University, Korea
2002 B.S., Department of Polymer Engineering, Pukyong National University, Korea



Seung-Hyun Jun

Present Team Leader, Beauty Solution Team, R&I Division, LG H&H, Korea
2015 Ph.D., Chemical and Biological Engineering, Korea University, Korea
2004 B.S., Chemical and Biological Engineering, Korea University, Korea



Jin Mo Kim

Present Director, Convergence Technology Laboratory, Kolmar Korea, Korea
2013 Senior Researcher, Skin Science Research Institute, Enpram, Korea
2002 M.Eng., Department of Chemical Engineering, Dankook University, Korea

10. [SCSK Symposium] The Korean Cosmetics Industry: K-Beauty Technologies and Innovations

Organizer: Sang Min Lim (KIST)

Chair: Ky-Youb Nam (Pharos iBio)

15:00 Welcome Address

Phil Ho Lee

President, Korean Chemical Society / Department of Chemistry, Kangwon National University, Korea

15:10 Welcome Address

Jae Sung Hwang

President, The Society of Cosmetic Scientists of Korea / Department of Genetics and Biotechnology, Kyung Hee University, Korea

15:20 **KCS7-1** Cosmetic Ingredient Trends: From Conventional Actives to Biotechnological Innovations

Jeoungjin Ryu

Innovative Materials Team, COSMAX R&I Center, Korea

15:50 **KCS7-2** Advanced Skincare for Skin Barrier Using Ultra-High Molecular Weight Hyaluronic Acid Hydrogel

Ji Wook Jang, Jenghwan Kim, Sungyeon Cho, Byungryol Paik, Heung Soo Baek, Sunga Cho

Skincare Division, AMOREPACIFIC, Korea

16:20 **KCS7-3** Enhanced Transdermal NAD⁺ Delivery via Ion-Coupled Transfersomes: A Solution for Skin Longevity and Senescence Delay

Seung-Hyun Jun, Seongsu Kang, Bon Il Koo, Euitaek Jeong, Nea-Gyu Kang
Beauty Solution Team, LG Household and Health Care R&D Center, Korea

16:50 **KCS7-4** Research on Convergent Technologies Focused on Cosmetic Development

Jin Mo Kim

Convergence Technology Laboratory, Kolmar Korea, Korea

17:20 Closing Remarks

Organizer

Jeewoo Lim



Present Associate Professor,
Department of Chemistry,
Kyung Hee University, Korea

2011 Ph.D., Department of
Chemistry, MIT, United States

2006 A.B., Department of
Chemistry, Princeton
University, United States

Chair

Minseok Kwak



Present Professor, Department of
Chemistry, Pukyong National
University, Korea

2013 Rubicon Fellow, Wyss
Institute at Harvard, United
States

2011 Ph.D., University of
Groningen, Netherlands &
Max-Planck-Institute for
Polymer Research, Germany

Speaker

Andrew J. Boydston



Present Professor, Department of
Chemistry, University of
Wisconsin, United States

2007-2010 Postdoctoral Fellow,
California Institute of
Technology, United States

2007 Ph.D., Department of
Chemistry, University of
Texas, United States

Yves Lansac



2003-2004 Research Associate, Caltech,
United States

1995-1998, 2000-2003 Research Associate, University
of Colorado at Boulder,
United States

1993 Ph.D., University of Nice-
Sophia Antipolis, France

Cheolmin Park



Present Professor, Department of
Materials Science and
Engineering, Yonsei
University, Korea

2002 Ph.D., Department of
Materials Science and
Engineering, MIT, United
States

1992 B.S., Department of Fiber and
Textile Engineering, Seoul
National University, Korea

11. International Symposium on Macromolecular Materials

Organizer: Jeewoo Lim (Kyung Hee University)

Chair: Jeewoo Lim (Kyung Hee University)

15:40 **POLY1-1** Metal-Free Ring-Opening Metathesis Polymerization**Andrew J. Boydston**

*Department of Chemistry, University of Wisconsin–Madison, United States /
Department of Chemical and Biological Engineering, University of Wisconsin–
Madison, United States / Department of Materials Science and Engineering,
University of Wisconsin–Madison, United States*

16:15 **POLY1-2** DNA Condensation and Aggregation Induced by Condensing Agents**Yves Lansac**, Yun Hee Jang^{1, *}

*GREMAN, CNRS UMR 7347, Université de Tours, France / LPS, CNRS UMR 8502,
Université Paris-Saclay, France*

¹*Department of Energy Science and Engineering, DGIST, Korea*

16:50 Coffee Break

17:10 **POLY1-3** Tactile Sensory Neuromorphic Displays Enabling Health Monitoring**Cheolmin Park***Department of Materials Science and Engineering, Yonsei University, Korea*

Chair: Minseok Kwak (Pukyong National University)

17:45 Polymer Chemistry Division General Meeting

Organizer



Minseok Kwak
Present Professor, Department of Chemistry, Pukyong National University, Korea
2013 Rubicon Fellow, Wyss Institute at Harvard, United States
2011 Ph.D., University of Groningen, Netherlands & Max-Planck-Institute for Polymer Research, Germany

Chair



Hyeonuk Yeo
2017- Present Associate Professor, Department of Chemistry Education, Kyungpook National University, Korea
2017 Ph.D., Department of Polymer Chemistry, Kyoto University, Japan
2013-2017 Research Scientist, KIST, Korea

Speaker



Chang-Geun Chae
Present Senior Researcher, Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea
Present Assistant Professor, Advanced Materials and Chemical Engineering, University of Science and Technology, Korea



Hong Yul Cho
2024- Present Assistant Professor, Department of Chemistry, Gangneung-Wonju National University, Korea
2020-2024 Research Professor, Department of Polymer Science and Engineering, Pusan National University, Korea



Kyoungil Cho
Present Assistant Professor, Department of Chemistry, Changwon National University, Korea
2023-2025 Post-doctoral Researcher, Department of Chemistry, KAIST, Korea



Suk-Kyun Ahn
Present Professor, Department of Polymer Science and Engineering, Pusan National University, Korea
2014-2015 Postdoctoral Researcher, Air Force Research Laboratory, United States



Ja-Hyoung Ryu
2012- Present Professor, Department of Chemistry, UNIST, Korea
2023- Present Editorial Advisory Board Member of ChemSystemsChem

12. Special Symposium by Mid- and Early-Career Chemists

Organizer: Minseok Kwak (Pukyong National University)

Chair: Minseok Kwak (Pukyong National University)

<Award Lecture: TCI Polymer Chemistry Early Career Scientist Academic Award>

09:00 **POLY2-1** Catalyst Environment Design in Vinyl-Addition Polymerization to Access Model Polynorbornenes

Chang-Geun Chae

Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea

09:25 **POLY2-2** Controls in Polymerization

Hong Yul Cho

Department of Chemistry, Gangneung-Wonju National University, Korea

09:45 Coffee Break

Chair: Hyeonuk Yeo (Kyungpook National University)

09:55 **POLY2-3** From Waste to Resource: ISOMET Approaches for Polymer Chemical Recycling

Kyoungil Cho

Department of Chemistry, Changwon National University, Korea

10:15 **POLY2-4** Liquid Crystal Elastomers for Active Textiles and Shape Displays

Suk-Kyun Ahn

Department of Polymer Science and Engineering, Pusan National University, Korea

<Award Lecture: Polymer Chemistry Excellence Award>

10:35 **POLY2-5** Supramolecular Approach for Targeted Disease Therapy

Ja-Hyoung Ryu

Department of Chemistry, UNIST, Korea

Symposium

Polymer Chemistry Symposium 3
October 24 (Fri), Room 302

Organizer

Seung Goo Lee



Present Associate Professor,
Department of Chemistry,
University of Ulsan, Korea
2016 Postdoc, Department of
Chemical Engineering, MIT,
United States
2012 Ph.D., Department of
Chemical Engineering,
POSTECH, Korea

Chair

Sung Yun Son



Present Associate Professor,
Department of Chemistry,
Kwangju University, Korea
2021 Postdoc, Department of
Chemistry, University of
North Carolina at Chapel Hill,
United States
2018 Ph.D., Department of
Chemical Engineering,
POSTECH, Korea

Speaker

Yun Hi Kim



Present Professor, Department of
Chemistry, Gyeongsang
National University, Korea

Jinseck Kim



Present Associate Professor,
Department of Polymer-Nano
Science & Technology,
Jeonbuk National University,
Korea
2023 Ph.D., Department of
Chemical & Biomolecular
Engineering, KAIST, Korea
2011 M.S., Department of
Chemical Engineering,
POSTECH, Korea

Kyung Jin Lee



2012 - Present Professor, Department of
Chemical Engineering and
Applied Chemistry,
Chungnam National
University, Korea
2009-2012 Postdoc, Department of
Chemical Engineering,
University of Michigan Ann
Arbor, United States

Kyoseung Sim



2024.03. - Present Associate Professor,
Department of Chemistry,
UNIST, Korea
2020.03. - 2024.02. Assistant Professor,
Department of Chemistry,
UNIST, Korea
2018.08. - 2020.02. Postdoctoral Researcher,
University of Houston, United
States

13. Recent Advances in Polymer-Based Electronic Materials

Organizer: Seung Goo Lee (University of Ulsan)

Chair: Sung Yun Son (Kwangju University)

14:30 **POLY3-1** Development of Conjugated Polymers for Organic Electronics

Yun Hi Kim

Department of Chemistry, Gyeongsang National University, Korea

14:55 **POLY3-2** Manipulation of Planarity and Aggregation in Novel Conjugated Polymers for Organic Electronics

Jinseck Kim

Department of Polymer-Nano Science & Technology, Jeonbuk National University, Korea

15:20 Coffee Break

Chair: Seung Goo Lee (University of Ulsan)

15:30 **POLY3-3** Functional CVD Based-Parylene Thin Films for Electronic Devices

Kyung Jin Lee

Department of Chemical Engineering and Applied Chemistry, Chungnam National University, Korea

15:55 **POLY3-4** Irreproducible SEBS Wrinkling for Soft Identifiable Finger Pad Electronics

Kyoseung Sim

Department of Chemistry, UNIST, Korea

Organizer



Jaewoo Lee
Present Associate Professor,
Department of Polymer-Nano
Science & Technology,
Jeonbuk National University,
Korea
2020 Research Fellow, Singapore
Membrane Technology
Center, Nanyang
Technological University,
Singapore
2015 Ph.D, Department of
Chemical and Biological
Engineering, Seoul National
University, Korea

Speaker



Hyo Won Kim
2022- Present Assistant Professor,
Department of Energy
Engineering, KENTECH, Korea
2019-2022 Assistant Professor,
Department of Advanced
Materials Engineering,
Kangwon National University,
Korea



Taehoon Lee
Present Assistant Professor,
Department of Future Energy
Engineering, Sungkyunkwan
University, Korea
2025 Postdoctoral Associate,
Department of Chemical
Engineering, MIT, United
States
2021 Ph.D, Department of Energy
Engineering, Hanyang
University, Korea



Hyosung An
Present Assistant Professor,
Department of Petrochemical
Materials Engineering,
Chonnam National University,
Korea
2021 Postdoc, Materials Science
and Engineering, University
of Illinois, United States
2018 Ph.D, Chemical Engineering,
Texas A&M University, United
States



Woochul Song
Present Assistant Professor, Division
of Environmental Science and
Engineering, POSTECH, Korea

14. Recent Technology for Advanced Membrances

Organizer: Jaewoo Lee (Jeonbuk National University)

Chair: Jaewoo Lee (Jeonbuk National University)

- 15:30 **IND1-1** CO₂ Transport Mechanisms in Thin-Film Composite Polymer Membranes under Humidified Environments
Hyo Won Kim
Department of Energy Engineering, Korea Institute of Energy Technology, Korea
- 16:00 **IND1-2** Solution-Processable, Ladder-Branched Polyimides of Intrinsic Microporosity toward High-Performance Gas Separation Membranes
Taehoon Lee
Department of Future Energy Engineering, Sungkyunkwan University, Korea
- 16:30 Coffee Break
- 16:40 **IND1-3** Seeking Regularity from Irregular Structure in Polyamide Membranes Using Electron Tomography
Hyosung An
Department of Petrochemical Materials Engineering, Chonnam National University, Korea
- 17:10 **IND1-4** Pillar[5]arene Based Thin Film Composite Membranes for Light Gas Separations through Strong Molecular Sieving
Woochul Song
Division of Environmental Science and Engineering, POSTECH, Korea

Organizer

**Dongwon Lee**

2008-Present Professor, Department of Polymer Nano Science and Technology, Jeonbuk National University, Korea

2006-2008 Postdoc, Department of Biomedical Engineering, Georgia Institute of Technology, United States

2004 Ph.D., Department of Materials Science and Engineering, University of Florida, United States

Chair

**Eunkeyeong Jung**

2023-Present Researcher, Bionanotechnology Research Center, Korea Research Institute of Bioscience & Biotechnology, Korea

2021-2023 Postdoc, Department of NanoEngineering, University of California San Diego, United States

2017-2021 Ph.D., Department of Bionanotechnology & Bioconvergence Engineering, Jeonbuk National University, Korea

Speaker

**Ja-Hyoung Ryu**

2023-Present Editorial Advisory Board Member of ChemSystemsChem

2022-Present Associate Editor of MedComm Biomaterials and Application

2012-Present Professor, Department of Chemistry, UNIST, Korea

**Woo-Jin Jeong**

2020-Present Assistant Professor, Department of Biological Sciences and Engineering, Inha University, Korea

2018-2020 Postdoc, School of Pharmacy, University of Wisconsin-Madison, United States

**Hyun Jong Lee**

Present Associate Professor, Department of Chemical and Biological Engineering, Gachon University, Korea

2018 Postdoc, Department of Ophthalmology, Stanford University School of Medicine, United States

2016 Senior Researcher, Cosmetics Research Center, LG Household & Healthcare, Korea

**Chaenyung Cha**

Present Professor, Department of Materials Science and Engineering, UNIST, Korea

2012-2014 Research Fellow, Brigham and Women's Hospital, Harvard Medical School, United States

15. Convergence of Biotechnology and Nanotechnology I

Organizer: Dongwon Lee (Jeonbuk National University)

Chair: Eunkeyeong Jung (Korea Research Institute of Bioscience & Biotechnology)

09:00 **IND2-1** Cloaking Nanoparticles for Cancer Therapy**Ja-Hyoung Ryu***Department of Chemistry, UNIST, Korea*09:30 **IND2-2** Peptide Discovery and Engineering for Biomedical Applications**Woo-Jin Jeong***Department of Biological Sciences and Bioengineering, Inha University, Korea*

Chair: Dongwon Lee (Jeonbuk National University)

10:00 **IND2-3** Matrix-Centric Engineering of Hydrogels for Advanced Control of Growth Factor Bioavailability**Hyun Jong Lee***Department of Chemical and Biological Engineering, Gachon University, Korea*10:30 **IND2-4** Modulating Physicochemical Interaction with Proteins via Polysuccinimide-Silica Nanocomposite Platform: Development of Advanced Biosensors**Chaenyung Cha***Department of Materials Science and Engineering, UNIST, Korea*

Organizer



Gilson Khang
Present Professor, Department of Polymer Nano Science & Technology, Jeonbuk National University, Korea
2022 Fellow, The Polymer Society of Korea
2012 Founding Fellow, TERMIS

Chair



Hwan D. Kim
Present Associate Professor, Department of Biomedical Sciences, Seoul National University of Science & Technology, Korea
2021 Postdoc, Department of Cardiac Surgery, Boston Children's Hospital, Harvard Medical School, United States
2018 Ph.D, School of Chemical and Biological Engineering, Seoul National University, Korea

Speaker



Kihak Gwon
Present Assistant Professor, Department of Biofibers and Biomaterials Science, Kyungpook National University, Korea



Kyubae Lee
Present Assistant Professor, Department of Biomedical Materials, Konyang University, Korea
2021-2023 Postdoctoral Researcher, Department of Medical Engineering, Yonsei University College of Medicine, Korea
2021 Ph.D, Department of Materials Science and Engineering, University of Tsukuba, Japan



Sunho Park
Present Assistant Professor, Department of Bio-Industrial Machinery Engineering, Pusan National University, Korea
2022-2024 Post-doctoral Researcher, Department of Convergence Biosystems Engineering, Chonnam National University, Korea



Junghun Kim
Present Research Professor, Department of Chemical and Biological Engineering, Seoul National University, Korea
2024 Ph.D, Department of Chemical and Biological Engineering, Seoul National University, Korea

16. Convergence of Biotechnology and Nanotechnology II

Organizer: Gilson Khang (Jeonbuk National University)

Chair: Gilson Khang (Jeonbuk National University)

14:30 **IND3-1** Microfluidic-Assisted Engineered Core-Shell Microcapsules for Regenerative Medicine

Kihak Gwon

Department of Bio-Fibers and Materials Science, Kyungpook National University, Korea

15:00 **IND3-2** Reprogramming Splenic Myeloid Cells as Endogenous Carriers through Nano-Hypoxia for Angiogenic Therapy

Kyubae Lee

Department of Biomedical Materials, Konyang University, Korea

Chair: Hwan D. Kim (Seoul National University of Science & Technology)

15:30 **IND3-3** Micro/Nanoscale Engineering of Cellular Behaviors: From 2D to 3D Living Systems

Sunho Park

Department of Bio-Industrial Machinery Engineering, Pusan National University, Korea

16:00 **IND3-4** Osteo-Immunomodulation of Bioactive Ceramic in Osteoporotic Fracture

Junghun Kim, Nathaniel Suk-Yeon Hwang*

Department of Chemical and Biological Engineering, Seoul National University, Korea

Symposium

Inorganic Chemistry Symposium 1
October 23 (Thu), Room 700A

Organizer



Daeha Seo

Present Associated Professor,
Department of Chemistry,
POSTECH, Korea
2010 Ph.D., Department of
Chemistry, KAIST, Korea
2005 B.S., Department of
Chemistry Education, Pusan
National University, Korea



Youngmin You

Present Department of Chemical and
Biomolecular Engineering,
Yonsei University, Korea
2007 Ph.D., Department of
Materials Science and
Engineering, Seoul National
University, Korea
2001 B.S., School of Chemical
Engineering, Seoul National
University, Korea

Speaker



David George Churchill

2004-2025 Assistant, Associate, then Full
Professor, Department of
Chemistry, KAIST, Korea
2023-2024 Visiting Professor,
Department of Chemistry,
Imperial College London,
United Kingdom
2017-2018 Visiting Associate Professor,
The Schulich Faculty of
Chemistry, Technion – Israel
Institute of Technology, Israel



Tae-Hyuk Kwon

2012- Present Professor, Department of
Chemistry, UNIST, Korea
2008-2012 Post-doctoral Fellow,
Department of Chemistry,
University of Melbourne,
Australia
2006-2008 Post-doctoral Fellow,
Department of Chemistry,
Seoul National University,
Korea



Seung Jae Lee

2013- Present Professor, Department of
Chemistry, Jeonbuk National
University, Korea
2019-2020 Visiting Scholar, School of
Medicine, University of
Maryland, United States
2010-2013 Postdoc, MIT, MA, United
States



Joongoo Lee

Present Associate Professor,
Department of Chemical
Engineering, POSTECH, Korea



Jiyeon Han

Present Assistant Professor,
Department of Applied
Chemistry, University of
Seoul, Korea
2022 Ph.D., Department of
Chemistry, KAIST, Korea
2016 B.S., Department of
Chemistry, UNIST, Korea



Wonyoung Choe

Present Professor, Department of
Chemistry, UNIST, Korea
1998 Ph.D., Department of
Chemistry, University of
Michigan, United States
1987 B.S., Department of
Chemistry, Seoul National
University, Korea

17. Recent Advances in Bioinorganic Chemistry

Organizer: Daeha Seo (POSTECH)
Youngmin You (Yonsei University)

Chair: Daeha Seo (POSTECH)

15:30 **INOR1-1** Molecular Probes Bearing Reactive Main Group Chemistry Sites for
Biological Investigations

David George Churchill

Department of Chemistry, KAIST, Korea

15:50 **INOR1-2** Biocompatible Iridium Complexes for Enhanced Photodynamic
Therapy

Tae-Hyuk Kwon

Department of Chemistry, UNIST, Korea

16:10 **INOR1-3** Orchestration of Allosteric Effects in Metalloproteins

Seung Jae Lee

*Department of Chemistry, Jeonbuk National University, Korea / Institute of
Molecular Biology & Genetics, Korea*

16:30 **INOR1-4** Ribosomal Synthesis of Non-Standard Cyclic Backbones In Vitro

Joongoo Lee

Department of Chemical Engineering, POSTECH, Korea

16:50 **INOR1-5** Functional Switching of a Neuropeptide Driven by Copper
Dyshomeostasis in Protein Misfolding Disorders

Jiyeon Han

Department of Applied Chemistry, University of Seoul, Korea

Chair: Youngmin You (Yonsei University)

<Award Lecture: Si-Joong Kim Academic Award>

17:10 **INOR1-6** Conceptual Advances in Reticular Framework Materials

Wonyoung Choe

Department of Chemistry, UNIST, Korea

17:40 Inorganic Chemistry Division General Meeting

Organizer



Sung Ho Jung

2023 Associate Professor,
Department of Chemistry,
Gyeongsang National
University, Korea
2019 Postdoc, National Institute
for Materials Science, Japan
2015 Ph.D., Department of
Chemistry, Gyeongsang
National University, Korea

Speaker



Soon Hyeok Hong

Present Department of Chemistry,
KAIST, Korea
2011-2019 Seoul National University,
Korea
2008-2011 Nanyang Technological
University, Singapore



Mingoo Jin

2023- Present Associate Professor (PI), WPI-
ICReDD, Hokkaido University,
Japan
2019-2022 Specially Appointed Assistant
Professor, WPI-ICReDD,
Hokkaido University, Japan
2018-2019 Postdoctoral Fellow,
University of California Los
Angeles, United States



Chang-Lyoul Lee

2019.03- Present Head Researcher, Advanced
Photonics Research Institute,
GIST, Korea
2017.12 - Visiting Scholar, Chemical
2018.12. and Biomolecular
Engineering, Rice University,
United States
2005.10 - Visiting Researcher (Postdoc),
2007.06. Optoelectronics Group (Prof.
Neil Greenham), Cavendish
Laboratory, Cambridge
University, United Kingdom



Heekyoung Choi

Present Assistant Professor, Institute
for Chemical Research, Kyoto
University, Japan
2022 Postdoctoral Fellow,
Department of Chemistry,
The University of British
Columbia, Canada
2019 Postdoctoral Fellow, Institute
of Transformative Bio-
Molecules, Nagoya University,
Japan



Jinhee Park

2016- Present Professor, Department of
Physics and Chemistry,
DGIST, Korea
2013-2015 Senior Researcher, Korea
Electrotechnology Research
Institute, Korea

18. Recent Advances in Coordination Chemistry

Organizer: Sung Ho Jung (Gyeongsang National University)

Chair: Sung Ho Jung (Gyeongsang National University)

- 14:30 **INOR3-1** Chemically Recyclable Coordinative Adaptive Network Thermosets
Derived from C6-ROMP Polymers
Soon Hyeok Hong
Department of Chemistry, KAIST, Korea
- 14:50 **INOR3-2** Development of Crystalline Molecular Machines via Transition Metal
Complexes and the Photo-Functions
Mingoo Jin
*WPI-Institute for Chemical Reaction Design and Discovery, Hokkaido University,
Japan*
- 15:10 **INOR3-3** Realization of Blue Perovskite Nanoparticles by In-Situ Post-Treatment
of an Organic Halide Ligand
Chang-Lyoul Lee
Advanced Photonics Research Institute, GIST, Korea
- 15:30 **INOR3-4** Dynamic B-N Lewis Adducts: Toward Functional Supramolecular π -
Assemblies
Heekyoung Choi
Institute for Chemical Research, Kyoto University, Japan
- 15:50 **INOR3-5** Designing Functional MOFs: From Composition to Responsiveness
Jinhee Park
Department of Physics & Chemistry, DGIST, Korea

Symposium

Physical Chemistry Symposium 1
October 23 (Thu), Room 600A

Organizer



Young Wook Lee

2020.03-
Present Associate Professor,
Department of Education
Chemistry, Gyeongsang
National University, Korea
2018.12-
2020.02 Senior Technical Researcher,
KICET, Korea
2015-
2018.02 Researcher and Ph.D.,
Department of Chemistry,
KAIST, Korea

Chair



Myong Yong Choi

2007-
Present Professor, Department of
Chemistry, Gyeongsang
National University, Korea
2006 Postdoctoral Researcher,
University of Southern
California, United States
2002-2006 Ph.D., Department of
Chemistry, University of
North Carolina at Chapel Hill,
United States



Seunghoon Lee

Present Assistant Professor,
Department of Chemistry,
Dong-A University, Korea
2021 Postdoc, Faculty of Physics,
LMU, Germany
2017 Ph.D., Department of
Chemistry, KAIST, Korea

Speaker



Jeong Young Park

Present KAIST Endowed Chair
Professor, Department of
Chemistry, KAIST, Korea
2009-2023 Associate Professor / Full
Professor, Graduate School of
EEWS and Department of
Chemistry, KAIST, Korea



Hyunseob Lim

2022-
Present Associate Professor,
Department of Chemistry,
GIST, Korea
2019-2022 Assistant Professor,
Department of Chemistry,
GIST, Korea



Woon Yong Sohn

Present Associate Professor,
Department of Chemistry,
Chungbuk National
University, Korea
2016-2020 Assistant Professor,
Department of Applied
Chemistry, Chuo University,
Japan



Sang-II Choi

2015-
Present Professor, Department of
Chemistry, Kyungpook
National University, Korea
2012-2015 Postdoc Researcher, Georgia
Institute of Technology,
United States



Oh-Hoon Kwon

Present Professor, Department of
Chemistry, UNIST, Korea
2010-2013 Senior Scientist, Physical
Biology Center for Ultrafast
Science and Technology,
Caltech, United States

19. The Nano-Physical Chemistry Convergence Symposium

Organizer: Young Wook Lee (Gyeongsang National University)

Chair: Myong Yong Choi (Gyeongsang National University)

<Award Lecture: Kim Myung Soo Award>

15:40 **PHYS1-1** Revealing the Nature of Chemically Reactive Sites with Operando
Surface Probes

Jeong Young Park

Department of Chemistry, KAIST, Korea

Chair: Seunghoon Lee (Dong-A University)

16:10 **PHYS1-2** Role of Surface Chemistry in the Controlled Synthesis of 2D TMDs

Hyunseob Lim

Department of Chemistry, GIST, Korea

16:30 **PHYS1-3** Application of Near-Field Heterodyne Transient Grating (NF-HD-TG)
Spectroscopy to the Investigation of Photoexcited Charge Carrier Dynamics

Woon Yong Sohn

Department of Chemistry, Chungbuk National University, Korea

16:50 **PHYS1-4** Single-Atom Decorated Platinum Nanocrystals for Ammonia Electro-
Oxidation

Sang-II Choi

Department of Chemistry, Kyungpook National University, Korea

17:10 **PHYS1-5** Imaging Structural and Carrier Dynamics of Two-Dimensional
Semiconductors Using Ultrafast Correlative Microscopy

Oh-Hoon Kwon

Department of Chemistry, UNIST, Korea

Organizer



Won June Kim
Present Associate Professor,
Department of Chemistry,
Changwon National
University, Korea
2019 Postdoc, Faculté des Sciences
et Techniques, CNRS /
Université de Lorraine, France
2017 Ph.D., Department of
Chemistry, KAIST, Korea

Chair



Myong Yong Choi
2007- Present Professor, Department of
Chemistry, Gyeongsang
National University, Korea
2006 Postdoctoral Researcher,
University of Southern
California, United States
2002-2006 Ph.D., Department of
Chemistry, University of
North Carolina at Chapel Hill,
United States

Speaker



Hye Ran Koh
Present Associate Professor,
Department of Chemistry,
Chung-Ang University, Korea
2017 Research Scientist,
Department of Biophysics,
Johns Hopkins University,
United States



Seung Kyu Min
2020- Present Associate Professor,
Department of Chemistry,
UNIST, Korea
2015-2020 Assistant Professor, UNIST,
Korea



Jong-Won Song
Present Associate Professor,
Department of Chemistry
Education, Daegu University,
Korea
2016 Research Scientist, RIKEN
Advanced Institute of
Computational Science, Japan



Minho Kim
Present Assistant Professor,
Department of Applied
Chemistry, Kyung Hee
University, Korea
2021 Postdoc, Laboratoire de
Physique et Chimie
Théoriques, CNRS, France



Taeyoung Yoon
Present Professor, Department of
Mechanical Engineering,
Changwon National
University, Korea



Yoonhoo Ha
Present Staff Researcher, Device
Research Center, Samsung
Advanced Institute of
Technology, Korea
2024 Staff Researcher, AI Research
Center, Samsung Advanced
Institute of Technology, Korea

20. Recent Trends in Computational Chemistry Across
Academia and Industry

Organizer: Won June Kim (Changwon National University)

Chair: Myong Yong Choi (Gyeongsang National University)

<Award Lecture: Young Physical Chemist Award>

14:30 **PHYS2-1** Single-Molecule Fluorescence Approaches to CRISPR Systems:
Molecular Mechanisms and Diagnostic Applications

Hye Ran Koh*Department of Chemistry, Chung-Ang University, Korea*

<Award Lecture: Young Physical Chemist Award>

15:00 **PHYS2-2** Toward Accurate Theoretical Descriptions in Excited State Molecular
Dynamics: Theory and Applications

Seung Kyu Min*Department of Chemistry, UNIST, Korea*

Chair: Won June Kim (Changwon National University)

15:30 **PHYS2-3** High Accuracy Orbital Energy Calculations Using Long-Range
Corrected Density Functional Theory

Jong-Won Song*Department of Chemistry Education, Daegu University, Korea*

15:50 **PHYS2-4** Theoretical Design of TiO₂ Photocatalysts Based on the Optimal
Coordination of Metal Centers for Balanced Activity–Stability Improvement

Minho Kim*Department of Applied Chemistry, Kyung Hee University, Korea*

16:10 **PHYS2-5** Molecular Dynamics for Biofunctional Materials : Perspectives from
Mechanical Engineering

Taeyoung Yoon*Department of Mechanical Engineering, Changwon National University, Korea*

16:30 **PHYS2-6** First-Principles Screening of Thermally Conductive Dielectric Materials
for Thermal Management of Electronic Devices beyond Moore's Law

Yoonhoo Ha*Device Research Center, Samsung Advanced Institute of Technology, Korea*

Organizer



Dongha Shin

Present Associate Professor,
Department of Chemistry,
Inha University, Korea

2012 Ph.D., Department of
Chemistry, Seoul National
University, Korea

2002 B.S., Department of
Chemistry, Seoul National
University, Korea

Chair



Jonghee Yoon

Present Associate Professor,
Department of Physics, Ajou
University, Korea

2016 Postdoc, Department of
Physics, University of
Cambridge, United Kingdom

2014 Ph.D., Department of Bio and
Brain Engineering, KAIST,
Korea

Speaker



Byoung-Kwan Cho

Present Department of Smart
Agricultural System
Machinery Engineering,
Chungnam National
University, Korea



Tae-Hoon Lim

2022 - Present Executive Director, Research
Institute, GNEWSOFT, Korea



Tae-Young Kim

Present Professor, Department of
Environment & Energy
Engineering, GIST, Korea

2009 Ph.D., Department of
Chemistry, Indiana University,
United States

1999 B.S., Department of
Chemistry, Seoul National
University, Korea



Jaeick Lee

2005 Postdoc, University of Texas
Southwestern Medical Center,
United States

2001 Ph.D., Department of
Biotechnology, Yonsei
University, Seoul, Korea

1995 B.S., Department of
Biotechnology, Yonsei
University, Seoul, Korea

21. Current Advances in Hyper-Spectral Imaging Analysis

Organizer: Dongha Shin (Inha University)

Chair: Dongha Shin (Inha University)

15:30 **ANAL1-1** AI-Assisted Hyperspectral Imaging System for the Accurate Disease
Diagnosis

Jonghee Yoon*Department of Physics, Ajou University, Korea*

15:50 **ANAL1-2** Hyperspectral Imaging Application for Quality and Safety
Measurement for Agricultural Materials

Byoung-Kwan Cho*Department of Smart Agricultural System Mechanical Engineering, Chungnam
National University, Korea*

16:10 **ANAL1-3** Vision Transformer-Based Hyperspectral Foundation Model and
Transfer Learning System for Application in Various Industries

Tae-Hoon Lim*Division of Research Institute, Gnewsoft, Korea*

Chair: Jonghee Yoon (Ajou University)

16:30 **ANAL1-4** Artificial Raman Agent System

Dongha Shin*Department of Chemistry, Inha University, Korea*

16:50 Coffee Break

<Award Lecture: Young In Outstanding Analytical Chemistry Research Award>

17:00 **ANAL1-5** A Mass Spectrometry Journey Crossing the Borders of Analytical
Chemistry and Environmental Science

Tae-Young Kim*Department of Environment and Energy Engineering, GIST, Korea*

<Award Lecture: Distinguished Contribution in Analytical Technology>

17:20 **ANAL1-6** Multiresidue Analysis of Small Molecules Using LC-ESI/MS/MS

Jaeick Lee*Doping Control Center, KIST, Korea*

17:40 Analytical Chemistry Division General Meeting

Organizer



Yonghoon Lee
Present Professor, Department of Energy and Chemical Engineering, Mokpo National University, Korea
2015-2016 Visiting Scientist, Lawrence Berkeley National Laboratory, United States
2003 Ph.D., Department of Chemistry, KAIST, Korea

Chair



Sehoon Jung
Present Sr. Researcher, Analysis & Assessment Center, RIST, Korea
2010 Ph.D., Department of Chemistry, POSTECH, Korea
2004 B.S., Department of Chemistry, Chungnam National University, Korea

Speaker



Joung Hae Lee
2020-Present Chief Technology Officer, Solution Factory, Korea
1985-2020 Principle Researcher, Group Leader of Inorganic Analysis, Head of Measurement Assurance Center, Korea Research Institute of Standards and Science, Korea
1985 Ph.D., Inha University, Korea



Minok Park
Present Assistant Professor, Department of Mechanical and Automotive Engineering, Kongju National University, Korea
2024 Research Scientist, Energy Technologies Area, Lawrence Berkeley National Laboratory, United States
2023 Project Scientist, Energy Technologies Area, Lawrence Berkeley National Laboratory, United States



Janghee Choi
2024-Present Principal Researcher, Industrial Transformation Technology Department, Korea Institute of Industrial Technology, Korea
2019-2024 Senior Researcher, Industrial Transformation Technology Department, Korea Institute of Industrial Technology, Korea

22. Current Advances in Laser-Based Spectroscopy

Organizer: Yonghoon Lee (Mokpo National University)

Chair: Yonghoon Lee (Mokpo National University)

09:10 **ANAL2-1** Development and Application of Cavity Ring-Down Spectrometer for Ultra-Trace Quantification

Joung Hae Lee*Division of Nuclear Power Plant, Solution Factory, Korea*

09:30 **ANAL2-2** Mechanisms of Ultrafast GHz Burst fs Laser Ablation

Minok Park*Department of Mechanical & Automotive Engineering, Kongju National University, Korea*

09:50 **ANAL2-3** Laser Spectroscopic Analysis for Skin Cancer Diagnostic Support

Janghee Choi, Woonkyeong Jung, Gookseon Jeon*Department of Industrial Transformation Technology, Korea Institute of Industrial Technology, Korea*

10:10 Coffee Break

10:20 **ANAL2-4** Applications of LA-ICP-MS and LIBS for Multi-Elemental Analysis in Lithium-Ion Battery Materials

Sehoon Jung*Department of Chemistry, Research Institute of Industrial Science & Technology, Korea*

Chair: Sehoon Jung (Research Institute of Industrial Science and Technology)

10:40 **ANAL2-5** Hyphenating LIBS and Other Spectroscopic Techniques for Material Classification

Yonghoon Lee*Department of Chemistry, Mokpo National University, Korea*

Organizer



Byung-Gil Lee

Present Assistant Professor,
Department of Biochemistry,
College of Medicine, Gachon
University, Korea

2013 Postdoc, MRC-LMB,
Cambridge, United Kingdom

2011 Ph.D., Department of Life
Science, Korea University,
Korea

Speaker



Dohoon Kwon

Present Assistant Professor,
Department of Chemistry,
POSTECH, Korea

2025 Postdoctoral Associate,
Department of Biochemistry,
Duke University School of
Medicine, United States

2019 Ph.D., Department of Life
Sciences, Korea University,
Korea



Sanghwa Lee

Present Assistant Professor,
Department of Medical Life
Sciences, College of
Medicine, The Catholic
University of Korea, Korea

2022 Principal Research Scientist,
Advanced Photonics Research
Institute, GIST, Korea

2014 Postdoctoral Fellow,
Biomedical Research Institute,
KIST, Korea



Sangmin Lee

2024- Present Assistant Professor,
Department of Chemical
Engineering, POSTECH, Korea

2021-2023 Postdoctoral Scholar,
Department of Biochemistry,
University of Washington,
United States



Ji-Joon Song

Present Professor, Department of
Biological Sciences, KAIST,
Korea

2008 Research Fellow, Mass.
General Hospital, Harvard
Medical School, United States

2005 Ph.D., Cold Spring Harbor
Laboratory, United States

23. Recent Trends in Molecular Machine Biochemistry

Organizer: Byung-Gil Lee (Gachon University)

Chair: Byung-Gil Lee (Gachon University)

- 15:40 **LIFE1-1** Cryo-EM Ensemble Analysis of Vanilloid-Induced TRPV1 Activation
Dohoon Kwon
Department of Chemistry, POSTECH, Korea
- 16:10 **LIFE1-2** Constructing Next-Generation Type V CRISPR-Cas Tools from Structural Dynamics
Sanghwa Lee
School of Medicine, The Catholic University of Korea, Korea
- 16:40 **LIFE1-3** De Novo Design of Functional Protein Complexes
Sangmin Lee
Department of Chemical Engineering, POSTECH, Korea
- 17:10 **LIFE1-4** CODANIN-1 Sequesters ASF1 by Using a Histone H3 Mimic Helix to Regulate the Histone Supply
Ji-Joon Song
Department of Biological Sciences, KAIST, Korea

Symposium

Life Chemistry Symposium 2
October 24 (Fri), Room 602

Organizer



Kayeong Lim
Present Senior Researcher, Biomedical Research Division, KIST, Korea
2022 Postdoc, Center for Genome Engineering, IBS, Korea
2019 Ph.D., Department of Chemistry, Seoul National University, Korea

Speaker



Byungjin Hwang
2022.09-Present Assistant Professor, Department of Biomedical Sciences, Yonsei University, Korea
2018-2022 Postdoc, Institute for Human UCSF, United States
2013-2018 Ph.D., Department of Chemistry, Yonsei University, Korea



Seung Woo Cho
Present Assistant Professor, Department of Biomedical Engineering, UNIST, Korea
2014-2018 Postdoc Researcher, Stanford University School of Medicine, United States



Cheulhee Jung
Present Professor, Department of Biotechnology, Korea University, Korea



Chang Ho Sohn
Present Assistant Professor, Graduate School of Medical Science and Engineering, KAIST, Korea
2000-2024 Assistant Professor, Advanced Science Institute, Yonsei University, Korea

24. Recent Trends in Omics-Based Molecular Profiling

Organizer: Kayeong Lim (KIST)

Chair: Kayeong Lim (KIST)

- 09:00 **LIFE2-1** A Universe Within a Cell: Scalable Single-Cell Multi-Omics Powered by Biochemistry
Byungjin Hwang
Department of Biomedical Sciences, Yonsei University, Korea
- 09:30 **LIFE2-2** Epigenetic Landscape Analysis Reveals Predictive Insights into Imatinib Resistance in Chronic Myeloid Leukemia
Seung Woo Cho
Department of Biomedical Engineering, UNIST, Korea
- 10:00 **LIFE2-3** Improving NGS Sensitivity via High-Efficiency Adapter Ligation and Cas9-Mediated Processing
Cheulhee Jung
Department of Biotechnology, Korea University, Korea
- 10:30 **LIFE2-4** Fixative-Exchange(FX)-Seq: Scalable Single-Nucleus, Spatial RNA Sequencing Method for Clinical FFPE Specimens
Chang Ho Sohn
Graduate School of Medical Science & Engineering, KAIST, Korea

Symposium

[ORGN2+INOR2] Joint Symposium
October 24 (Fri), Convention Hall III

Organizer



Seung Youn Hong

2022 - Present Assistant Professor, Department of Chemistry, Seoul National University, Korea
2021-2022 Postdoctoral Fellow, MIT, United States (Advisor: Prof. Alexander T. Radosevich)
2015-2020 Ph.D., Department of Chemistry, KAIST, Korea (Advisor: Prof. Sukbok Chang)



Jeongcheol Shin

Present Assistant Professor, Department of Chemistry, Duksung Women's University, Korea
2021 Ph.D., Department of Chemistry, KAIST, Korea
2015 B.S., Department of Chemistry, KAIST, Korea

Chair



Min Kim

Present Professor, Department of Chemistry, Chungbuk National University, Korea
2010-2012 Postdoc, Department of Chemistry and Biochemistry, UC San Diego, United States
2010 Ph.D., Department of Chemistry, KAIST, Korea

Speaker



Sung Youn Hong

Present Professor, Department of Chemistry, UNIST, Korea
2010 Postdoc, Max Planck Institute
2009 DPhil, University of Oxford, United Kingdom



Yunho Lee

2023.09 - Present Professor, Department of Chemistry, Seoul National University, Korea
2020.03 - 2023.08 Associate Professor, Department of Chemistry, Seoul National University, Korea
2010.12 - 2020.02 Assistant/Associate Professor, Department of Chemistry, KAIST, Korea



Won-Jin Chung

2014 - Present Assistant, Associate Professor, Department of Chemistry, GIST, Korea
2011-2014 Postdoc, Department of Chemistry, UC-Irvine, United States
2002-2008 Ph.D., Department of Chemistry, UIUC, United States



Jaeheung Cho

Present Professor, Department of Chemistry, UNIST, Korea
2020 Assistant & Associate Professor, DGIST, Korea
2005 Ph.D., Kanazawa University, Japan



Sunggho Yoon

Present Professor, Department of Chemistry, Chung-Ang University, Korea
2019 Professor, Department of Bio-Nano Chemistry, Chung-Ang University, Korea
2004 Ph.D., Department of Chemistry, MIT, United States

25. [Joint Symposium] Joint Symposium on Organic and Inorganic Chemistries

Organizer: Seung Youn Hong (Seoul National University)
Jeongcheol Shin (Duksung Women's University)

Chair: Min Kim (Chungbuk National University)

09:00 **ORGN2+INOR2-1** Reactivity Controlled SuFEx Chemistry and Low-Valent Nickel Catalysis

Sung Youn Hong

Department of Chemistry, UNIST, Korea

09:20 **ORGN2+INOR2-2** Catalysis for NO_x Conversion and Utilization (NCU)

Yunho Lee

Department of Chemistry, Seoul National University, Korea

09:40 **ORGN2+INOR2-3** Single Nitrogen Atom Insertion into Indoles to Form 1,4-Diazines

Won-Jin Chung

Department of Chemistry, GIST, Korea

Chair: Jeongcheol Shin (Duksung Women's University)

10:00 **ORGN2+INOR2-4** Bridging Coordination Chemistry and Organic Oxidation: Bioinspired Pathways for Small Molecule Activation

Jaeheung Cho

Department of Chemistry, UNIST, Korea

10:20 **ORGN2+INOR2-5** Multicentered Main-Group Catalysis

Seung Youn Hong

Department of Chemistry, Seoul National University, Korea

10:40 **ORGN2+INOR2-6** Value-Added Transformation of Epoxides through Carbonylation

Sunggho Yoon

Department of Chemistry, Chung-Ang University, Korea

Symposium

Organic Chemistry Symposium 1
October 23 (Thu), Convention Hall III

Organizer



Woo-Dong Jang

- Present Professor, Department of Chemistry, Yonsei University, Korea
- 2005 Assistant Professor, Department of Materials Engineering, The University of Tokyo, Japan
- 2003 Ph.D., Department of Chemistry and Biotechnology, The University of Tokyo, Japan



Sung-Eun Suh

- Present Associate Professor, Department of Chemistry, Ajou University, Korea
- 2021 Postdoc, Department of Chemistry, University of Wisconsin-Madison, United States
- 2017 Ph.D., Department of Chemistry, University of Pennsylvania, United States

Chair



Eun Joo Kang

- Present Professor, Department of Applied Chemistry, Kyung Hee University, Korea
- 2007 Postdoc, Department of Chemistry, UC Berkeley, United States
- 2006 Ph.D., Department of Chemistry, Seoul National University, Korea

Speaker



Hong Geun Lee

- Present Associate Professor, Department of Chemistry, Seoul National University, Korea
- 2012 Ph.D., Department of Chemistry and Chemical Biology, Harvard University, United States



Sang Kook Woo

- 2024-Present Associate Professor, Department of Chemistry, Pusan National University, Korea
- 2013-2024 Professor, Department of Chemistry, University of Ulsan, Korea



Inji Shin

- Present Associate Professor, Department of Fine Chemistry, Seoul National University of Science & Technology, Korea
- 2019 Senior Researcher, Korea Research Institute of Chemical Technology, Korea



Sunggi Lee

- 2024-Present Associate Professor, Department of Physics and Chemistry, DGIST, Korea
- 2024-2019 Assistant Professor, Department of Physics and Chemistry, DGIST, Korea



Jung Woon Yang

- 2009-Present Professor, Department of Energy Science, Sungkyunkwan University, Korea
- 2003-2009 Postdoc, Senior Scientist & Group Leader, Max-Planck-Institut für Kohlenforschung, Germany

Organized by BK21 Chemistry Education Center for Sustainability

(This Research was Supported by Yonsei 'Eokkaedongmu Project' through 4th BK21 Graduate School Innovation Support Project Funded by the Ministry of Education)

26. Recent Advances in Redox-Enabled Organic Reactions

Organizer: Woo-Dong Jang (Yonsei University)

Sung-Eun Suh (Ajou University)

Chair: Eun Joo Kang (Kyung Hee University)

<Award Lecture: Chang Sae Hee Award>

15:40 **ORGN1-1** Controlled Functionalization of Organoboron Compounds for the Creation of Chemical Complexity

Hong Geun Lee

Department of Chemistry, Seoul National University, Korea

Chair: Sung-Eun Suh (Ajou University)

16:10 **ORGN1-2** Visible-Light Photoredox Catalysis for Carbon Radical Generation and Carbon-Carbon Bond Formation

Sang Kook Woo

Department of Chemistry, Pusan National University, Korea

16:35 **ORGN1-3** Photo-Induced C-Si Bond Activation of Acylsilanes and α -Ketoacylsilanes

Inji Shin

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

17:00 **ORGN1-4** Amine Carboxyborane: A Versatile Ligated Boryl Radical Precursor

Sunggi Lee

Department of Physics & Chemistry, DGIST, Korea

17:25 **ORGN1-5** Transition-Metal-Free Oxidation and Oxidative Dehomologation Strategies for Biomass Valorization

Jung Woon Yang

Department of Energy Science, Sungkyunkwan University, Korea

17:50 **ORGN1-6** Achievements of "Chemistry Education Center for Sustainability" and Discussion for the Future Direction

Woo-Dong Jang

Department of Chemistry, Yonsei University, Korea

Organizer



Boyoung Park

Present Associate Professor,
Department of
Pharmaceuticals, Kyung Hee
University, Korea

2018 Assistant Professor,
Department of
Pharmaceuticals, Kyung Hee
University, Korea

Speaker



Jeung Gon Kim

Present Professor, Department of
Chemistry, Jeonbuk National
University, Korea

2005 Ph.D., Department of
Chemistry, University of
Pennsylvania, United States

2001 B.S., Department of
Chemistry, KAIST, Korea



Soyoung Park

Present Associate Professor,
Immunology Frontier
Research Center, The
University of Osaka, Japan

2012-2021 Assistant Professor,
Department of Chemistry,
Kyoto University, Japan

2010-2011 JSPS Postdoctoral Fellowship,
Kyoto University, Japan



Hong Kang

Present Associate Professor,
Department of Chemistry
Education, Chungbuk
National University, Korea

2021 Assistant Professor,
Department of Chemistry
Education, Chungbuk
National University, Korea

2018 Postdoctoral Researcher,
Department of Chemistry,
Purdue University, United
States

27. Unconventional Tools in Organic Chemistry

Organizer: Boyoung Park (Kyung Hee University)

Chair: Boyoung Park (Kyung Hee University)

- 14:30 **ORGN3-1** Understanding a Bit More about Mechanochemistry - Mixing
Jeung Gon Kim
Department of Chemistry, Jeonbuk National University, Korea
- 14:55 **ORGN3-2** DNA as a Designer Scaffold for Building Tailor-Made Metalloenzymes
Soyoung Park
Immunology Frontier Research Center, Osaka University, Japan
- 15:20 **ORGN3-3** Ligand-Tunable Copper-Catalyzed Oxidative Coupling for Divergent Synthesis of BINAMs and Dibenzo[c,g]carbazoles: The Role of High-Throughput Experimentation in Accelerating Reaction Development
Houng Kang
Department of Chemistry Education, Chungbuk National University, Korea
- 15:45 **ORGN3-4** Flow Chemistry as an Innovative Tool for Method Development
Boyoung Park
Department of Pharmaceuticals, Kyung Hee University, Korea

Symposium

Medicinal Chemistry Symposium 1
October 23 (Thu), Room 700B

Organizer



Seojung Han
Present Assistant Professor,
Department of Chemistry,
Sogang University, Korea
2019-2024 Associate Professor, UST
(KIST School), Korea
2017-2024 Principal Researcher, KIST,
Korea

Chair



Chun Young Im
Present Principal Researcher, New
Drug Development Center, K-
MEDI hub, Korea
2008 Senior Researcher,
Crystalgenomics, Korea
2004 Ph.D., Department of Material
Science, University of Hyogo,
Japan

Speaker



Jun Young Choi
Present SVP, Head of ST Pharm



Jong Yup Kim
2012- Present Director, Medicinal Chemistry
Laboratory, Jeil
Pharmaceutical, Korea
2006-2012 Researcher, Medicinal
Chemistry Laboratory,
Greencross, Korea
2000-2006 Researcher, New Drug
Research Center, LG Life
Science, Korea



Sang Hyun Lee
Present Head of Research Site in
Korea, Orum Therapeutics,
Korea



Sung-Ju Moon
Present Executive Vice President,
Head of ADC Technology at
ABL Bio
2021-2025 CSO, Sr. VP at InotCell
2017-2021 Sr. Pr. Scientist at Ambrx
Biopharma

28. Targeting the Untargeted: Korean Industry's Leap in First-In-Class Drug Discovery

Organizer: Seojung Han (Sogang University)

Chair: Chun Young Im (K-MEDI hub)

15:40 **MEDI1-1** Strategies to Streamline Drug Development and Expedite Regulatory Clearance: Process Chemistry (CMC) Perspective

Jun Young Choi

Division of R&D, ST Pharm, Korea

16:05 **MEDI1-2** Antidiabetic Effect of JP-2266, a Novel SGLT1/2 Dual Inhibitor, for the Treatment Diabetes Mellitus

Jong Yup Kim

Medicinal Chemistry Laboratory, Jeil Pharmaceutical CO., LTD., Korea

16:30 **MEDI1-3** Combining the Power of Protein Degraders with the Precision of Antibodies for Synergistic Potential Using Degradar-Antibody Conjugates (DACs)

Sang Hyun Lee

Division of Biology, Orum Therapeutics, Korea

16:55 **MEDI1-4** Introduction of ADC and Behind Story of Trodelvy™ Development

Sung-Ju Moon

ADC Technology, ABL Bio, Korea

17:20 Panel Discussion

Jong Yup Kim

Medicinal Chemistry Laboratory, Jeil Pharmaceutical CO., LTD., Korea

Sung-Ju Moon

ADC Technology, ABL Bio, Korea

Sang Hyun Lee

Division of Biology, Orum Therapeutics, Korea

Jun Young Choi

Division of R&D, ST Pharm, Korea

Symposium

Medicinal Chemistry Symposium 2

October 24 (Fri), Room 700B

Organizer



Inji Shin

Present Department of Fine Chemistry, Seoul National University of Science & Technology, Korea
2016 Postdoc, Department of Chemistry, University of Texas at Austin, United States
2013 Ph.D., Department of Chemistry, University of Pennsylvania, United States

Chair



Sun-Joon Min

2015 Professor, Department of Energy and Bio Sciences, Hanyang University ERICA, Korea
2008 Senior / Principle Researcher, KIST, Korea
2005 Ph.D., Department of Chemistry, UCLA, United States

Speaker



Jiyoung Hyun

2020-Present Senior Scientist, KRICT, Korea
2019-2020 Postdoc, Department of Chemistry, Yonsei University, Korea (Prof. Injae Shin)
2013-2019 Ph.D., Department of Chemistry, Yonsei University, Korea (Prof. Injae Shin)



Hongchan An

2023-Present Assistant Professor, Department of Chemistry, CHA University, Korea
2019-2023 Senior Researcher, New Drug Development Center, K-MEDI hub, Korea
2016-2019 Research Associate / Postdoctoral Associate, Scripps Florida, United States



Youngjoo Byun

2013-Present Professor, College of Pharmacy, Korea University, Korea
2011-2013 Assistant Professor, College of Pharmacy, Korea University, Korea
2009-2011 Instructor, School of Medicine, Johns Hopkins University, United States



Jae Yeol Lee

Present Professor, Department of Chemistry, Kyung Hee University, Korea
2004 Senior Research Scientist, KIST, Korea
1997 Ph.D., Department of Chemistry, Korea University, Korea

29. Award Lecture: Excellence in Medicinal Chemistry

Organizer: Inji Shin (Seoul National University of Science & Technology)

Chair: Sun-Joon Min (Hanyang University)

09:00 **MEDI2-1** Synthesis of Glycoconjugates and Their Therapeutic Applications

Jiyoung Hyun

Data Convergence Drug Research Center, Korea Research Institute of Chemical Technology, Korea

09:25 **MEDI2-2** Discovery of Novel Piezo1 Agonists and Their Therapeutic Potential in Hydrocephalus and Related Disorders

Hongchan An

Department of Pharmacy, CHA University, Korea

09:50 **MEDI2-3** Discovery of Pharmacologically Active Molecules Inspired by Natural Ligands

Youngjoo Byun

Department of Pharmacy, Korea University, Korea

<Award Lecture: Excellence in Medicinal Chemistry>

10:15 **MEDI2-4** Odyssey of Molecules: Four Decades in the Pursuit of New Medicines

Jae Yeol Lee

Department of Chemistry, Kyung Hee University, Korea

Symposium

Material Chemistry Symposium 1
October 23 (Thu), Room 606+607

Organizer



Jieun Yang
Present Associate Professor,
Department of Chemistry,
Kyung Hee University, Korea
2021 Postdoc, Department of
Materials Science and
Metallurgy, University of
Cambridge, United Kingdom
2015 Ph.D., Department of Energy
Engineering, UNIST, Korea

Chair



In Chung
2015- Present Assistant Professor, Associate
Professor, School of
Chemical and Biological
Engineering, Seoul National
University, Korea
2013-2015 Assistant Professor, Graduate
School of Nanoscience and
Technology, KAIST, Korea
2008-2012 Postdoc, Northwestern
University, United States

Speaker



In Young Kim
2022.09.- Present Assistant/Associate Professor,
Department of Chemistry
and Nanoscience, Ewha
Womans University, Korea
2020.09.- 2022.08 Assistant Professor,
Department of Chemistry,
Chonnam National University,
Korea
2017.12.- 2020.07 ARC DECRA Fellow, Global
Innovative Center for
Advance Nanomaterials, The
University of Newcastle,
Australia



Sunmin Ryu
Present Professor, Department of
Chemistry, POSTECH, Korea



Chul-Ho Lee
Present Professor, Department of
Electrical and Computer
Engineering, Seoul National
University, Korea
2011 Ph.D., Department of
Materials Science and
Engineering, POSTECH, Korea
2005 B.S., Department of Materials
Science and Engineering,
POSTECH, Korea



Hyunseob Lim
2022- Present Associate Professor,
Department of Chemistry,
GIST, Korea
2019-2022 Assistant Professor,
Department of Chemistry,
GIST, Korea
2017-2019 Assistant Professor, Chonnam
National University, Korea



Seung-Tae Hong
2012- Present Professor, Department of
Energy Science &
Engineering, DGIST, Korea
2000-2012 Project Leader, Battery /
Corporate R&D Center, LG
CHEM, Korea
1994-1996; 1996-1999 Research Associate,
Department of Chemistry,
Oregon State University &
Iowa State University, United
States

30. Cutting-Edge Materials Chemistry for 2-D Materials

Organizer: Jieun Yang (Kyung Hee University)

Chair: Jieun Yang (Kyung Hee University)

15:40 **MAT1-1** Soft-Chemical Synthesis and Modification of Xene for Energy Storage and Conversion Technology

In Young Kim

Department of Chemistry & Nanoscience, Ewha Womans University, Korea

16:10 **MAT1-2** Spectroscopic Insights into Graphene, TMDs and h-BN

Sunmin Ryu

Department of Chemistry, POSTECH, Korea

16:40 **MAT1-3** Interface Engineering for High-Performance 2D Semiconductor Electronics

Chul-Ho Lee

Department of Electrical and Computer Engineering, Seoul National University, Korea

17:10 **MAT1-4** Au@h-BN Core-Shell Nanoparticle: A New Class of SHIN Particle for Alkaline Media

Hyunseob Lim

Department of Chemistry, GIST, Korea

Chair: In Chung (Seoul National University)

<Award Lecture: Jin-Ho Choy Academic Award>

17:40 **MAT1-5** Ab Initio Structure Determination for New Materials Discovery and Insertion Mechanism Analysis in Batteries

Seung-Tae Hong

Department of Energy Science and Engineering, DGIST, Korea

Organizer



Myung Jun Kim

- Present Associate Professor, School of Chemical Engineering, Sungkyunkwan University, Korea
- 2020 Assistant Professor, Department of Applied Chemistry, Kyung Hee University, Korea
- 2013 Ph.D., School of Chemical and Biological Engineering, Seoul National University, Korea

Chair



Jehee Park

- Present Assistant Professor, Department of Chemical and Biological Engineering, Hanbat National University, Korea
- 2023 Postdoc, Chemical Sciences and Engineering Division, Argonne National Laboratory, United States
- 2022 Ph.D., Department of Energy and Chemical Engineering, UNIST, Korea



In Chung

- 2015- Present Assistant Professor, Associate Professor, School of Chemical and Biological Engineering, Seoul National University, Korea
- 2013-2015 Assistant Professor, Graduate School of Nanoscience and Technology, KAIST, Korea
- 2008-2012 Postdoc, Northwestern University, United States

Speaker



Seong-Ju Hwang

- Present Professor, Department of Materials Science and Engineering, Yonsei University, Korea
- 2005-2019 Professor, Department of Chemistry and Nanoscience, Ewha Womans University, Korea



Ji Man Kim

- 2005- Present Professor, Department of Chemistry, Sungkyunkwan University, Korea
- 2001-2005 Assistant Professor, Department of Applied Chemistry, Ajou University, Korea
- 2000-2001 Senior Researcher, Korea Research Institute of Chemical Technology, Korea



Jung Kyu Kim

- Present Associate Professor, School of Chemical Engineering, Sungkyunkwan University, Korea



Byoungcheon Lee

- Present Assistant Professor, Department of Integrative Energy Engineering, Korea University, Korea
- 2021-2023 Postdoc, Department of Electrical & Computer Engineering, University of Toronto, Canada

31. Cutting-Edge Materials Chemistry for Energy Materials

Organizer: Myung Jun Kim (Sungkyunkwan University)

Chair: Jehee Park (Hanbat National University)

09:00 **MAT2-1** Soft-Chemical Synthesis Routes to Energy-Functional 2D Materials**Seong-Ju Hwang***Department of Materials Science & Engineering, Yonsei University, Korea*09:40 **MAT2-2** Utilization of Nanostructured Materials for Improving the Performance in Li-S Batteries**Ji Man Kim***Department of Chemistry, Sungkyunkwan University, Korea*10:10 **MAT2-3** Photo- and Electro-Chemical Energy Conversion Materials for E-Chem Production**Jung Kyu Kim***School of Chemical Engineering, Sungkyunkwan University, Korea*10:35 **MAT2-4** Atomic Precision for a Carbon-Neutral Future: Innovations in Heterogeneous Catalysis**Byoungcheon Lee***Department of Integrative Energy Engineering, Korea University, Korea*

Speaker



Jin-Sil Choi

Present Assistant & Associate Professor, Department of Chemical and Biological Engineering, Hanbat National University, Korea
2017 Researcher, Y-IBS, Yonsei University, Korea
2013 Postdoc, UCLA, United States



Jerome Hyun

Present Professor, Department of Chemistry and Nanoscience, Ewha Womans University, Korea

Chair: In Chung (Seoul National University)

<Award Lecture: Young Material Chemists Award>

11:00 **MAT2-5** Nanozymes: The Next Generation of Catalysts Beyond Natural Enzymes

Jin-Sil Choi

Department of Chemical and Biological Engineering, Hanbat National University, Korea

<Award Lecture: Young Material Chemists Award>

11:20 **MAT2-6** Nanophotonically-Tailored Electrochemical Redox Reactions for Light Management

Jerome Hyun

Department of Chemistry & Nanoscience, Ewha Womans University, Korea

Organizer



Xiaoyan Jin

Present Assistant Professor,
Department of Applied
Chemistry, University of
Seoul, Korea

2018 Ph.D., Department of
Chemistry and Nanoscience,
Ewha Womans University,
Korea

Speaker



Seung-Tae Hong

2012-
Present Professor, Department of
Energy Science &
Engineering, DGIST, Korea

2000-2012 Project Leader, Battery/CRD
Research Center, LG CHEM,
Korea

1996-1999 Research Associate,
Department of Chemistry,
Oregon State University/Iowa
State University, United States



Jongwoo Lim

Present Associate Professor,
Department of Chemistry,
Seoul National University,
Korea

2014-2017 Postdoctoral Researcher,
Department of Materials
Science and Engineering,
Stanford University, United
States

2008-2013 Ph.D., Department of
Chemistry, UC Berkeley,
United States



Hye Ryung Byon

2016-
Present Professor, Department of
Chemistry, KAIST, Korea

2011-2016 Unit Leader, Byon Initiative
Research Unit, RIKEN, Japan



Seongmin Bak

Present Associate Professor,
Department of Materials
Science and Engineering,
Yonsei University, Korea

2020-2023 Staff Scientist, National
Synchrotron Light Source II,
Brookhaven National
Laboratory, United States

2016-2020 Staff Scientist, Chemistry
Division, Brookhaven
National Laboratory, United
States

32. Recent Progress in Battery Materials

Organizer: Xiaoyan Jin (University of Seoul)

Chair: Xiaoyan Jin (University of Seoul)

14:30 **MAT3-1** Discovery of Li and Na Solid Electrolytes with Unique Structural Frameworks

Seung-Tae Hong*Department of Energy Science & Engineering, DGIST, Korea*

15:00 **MAT3-2** Role of Interfacial Chemomechanics in Governing Intraparticle Li-Ion Dynamics with Liquid and Solid Electrolytes

Jongwoo Lim*Department of Chemistry, Seoul National University, Korea*

15:30 **MAT3-3** Organic Redox Flow Batteries for Long-Duration Energy Storages

Hye Ryung Byon*Department of Chemistry, KAIST, Korea*

16:00 **MAT3-4** Advanced Characterization Studies on Next-Generation Batteries via Synchrotron Tender X-ray Spectro-Microscopy

Seongmin Bak*Department of Materials Science and Engineering, Yonsei University, Korea*

Organizer

**Hyeyoung Shin**

Present Associate Professor, Graduate School of Energy Science and Technology, Chungnam National University, Korea

2019 Staff Engineer, Samsung Electronics, Korea

2018 Postdoc, Division of Chemistry and Chemical Engineering, California Institute of Technology, United States

Chair

**Hana Yoon**

Present Principal Researcher, Energy Storage Research Department, Korea Institute of Energy Research, Korea

2024 Visiting Scholar, Department of Physics, Harvard University, United States

2011 Ph.D., Department of Chemistry, KAIST, Korea

Speaker

**Sang Uck Lee**

Present Professor, School of Chemical Engineering, Sungkyunkwan University, Korea

2014-2023 Professor, Department of Chemical and Molecular Engineering, Hanyang University (ERICA), Korea

2012-2014 Assistant Professor, Department of Chemistry, University of Ulsan, Korea

**Minho Kim**

Present Assistant Professor, Department of Applied Chemistry, Kyung Hee University, Korea

2021 Postdoc, Laboratoire de Physique et Chimie Théoriques, CNRS, France

2019 Ph.D., Department of Chemistry, KAIST, Korea

**Yang Jeong Park**

Present Senior Research Scientist, Computational Science Research Center, KIST, Korea

2023-2025 Postdoc, Department of Materials Science and Technology, MIT, United States

2021-2023 Postdoc, Department of Electrical and Computer Engineering, Seoul National University, Korea

**Kanghoon Yim**

Present Principal Researcher, Energy AI & Computational Science Laboratory, Korea Institute of Energy Research, Korea

2017 Postdoc Researcher, Research Institute of Advanced Materials, Seoul National University, Korea

33. In-Silico Design of Electrochemical Materials

Organizer: Hyeyoung Shin (Chungnam National University)

Chair: Hyeyoung Shin (Chungnam National University)

15:40 **ELEC1-1** Atomistic Insights into Practical Catalysts: Interpreting Experimental Phenomena Through Computational Modeling**Sang Uck Lee***School of Chemical Engineering, Sungkyunkwan University, Korea*16:05 **ELEC1-2** Rational Design of Cost-Efficient and High-Performance Oxygen Evolution Electrocatalysts Based on Density Functional Simulation**Minho Kim***Department of Applied Chemistry, Kyung Hee University, Korea*

16:30 Coffee Break

Chair: Hana Yoon (Korea Institute of Energy Research)

16:40 **ELEC1-3** Optimization of Electrochemical Devices with Artificial Intelligence**Yang Jeong Park***Computational Science Research Center, KIST, Korea*17:05 **ELEC1-4** Designing Next-Generation Secondary Battery Materials Utilizing Machine-Learned Interatomic Potentials**Kanghoon Yim**, Hana Yoon¹*Energy AI & Computational Science Laboratory, Korea Institute of Energy Research, Korea*¹*Separation and Conversion Materials Research, Korea Institute of Energy Research, Korea*

17:30 Electrochemistry Division General Meeting

Organizer



Yang-Rae Kim

Present Professor, Department of Chemistry, Kwangwoon University, Korea

2012 Postdoc, Department of Chemistry, The University of Warwick, United Kingdom

2010 Ph.D., Department of Chemistry, Seoul National University, Korea

Speaker



Changsuk Yun

2022-Present Assistant Professor, Department of Chemistry, Changwon National University, Korea



Minkyu Kim

2022-Present Assistant Professor, Department of Chemistry, Inha University, Korea

2020-2022 Postdoc, Argonne National Laboratory, United States

2019-2020 Staff Engineering, SAMSUNG SDI, Korea



Yoo Seok Lee

Present Assistant Professor, Department of Chemical Engineering & Biotechnology, Tech University of Korea, Korea

2019-2022 Postdoctoral Research Associate, Department of Chemistry, University of Utah, United States



Jin Ho Bang

Present Professor, Department of Energy & Bio Sciences, Hanyang University ERICA, Korea

2008 Ph.D., Department of Chemistry, University of Illinois at Urbana-Champaign, United States

1999 B.S., Department of Chemistry Education, Seoul National University, Korea

34. Development of Innovative Electrochemical Systems

Organizer: Yang-Rae Kim (Kwangwoon University)

Chair: Yang-Rae Kim (Kwangwoon University)

09:00 **ELEC2-1** Electrochemical Probing of Ion Transport and Polymerization Dynamics in Polymer Systems

Changsuk Yun*Department of Chemistry, Changwon National University, Korea*

09:30 **ELEC2-2** Understanding Reaction Dynamics of Composite Electrode for Developing High Performance Li-Ion Batteries

Minkyu Kim*Department of Chemistry, Inha University, Korea*

10:00 **ELEC2-3** Bioelectrocatalysis for Sustainable Bioenergy Generation and Environmental Remediation

Yoo Seok Lee*Department of Chemical Engineering & Biotechnology, Tech University of Korea, Korea*

<Award Lecture: Choi Kyu Won Award>

10:30 **ELEC2-4** Beyond Conventional Photosensitizers: Unveiling the Unique Photoelectrochemical Behavior of Metal Nanoclusters

Jin Ho Bang*Department of Energy & Bio Sciences, Hanyang University, Korea*

Organizer



Hyunjung Kim
Present Professor, Department of
Chemistry Education, Kongju
National University, Korea

Chair



Dae Hong Jeong
Present Professor, Department of
Chemistry Education, Seoul
National University, Korea
2000-2002 Postdoc, Department of
Chemistry, Yonsei University,
Korea
1999-2000 Postdoc, Spectroscopy
Laboratory, Korea Research
Institute of Standard and
Science, Korea

Speaker



Jihun Park
Present Professor, Department of
Science Education, Gyeongin
National University of
Education, Korea
2011-2024 Teacher, Busan Metropolitan
Office of Education, Korea



Jongcheol Seo
2018-
Present Assistant and Associate
Professor, Department of
Chemistry, POSTECH, Korea
2014-2018 Research Scientist, Fritz
Haber Institute of the MPG,
Berlin, Germany

35. Proposal for Future-Oriented Standardization of Chemistry Education and Test Questions for Integrated Science Chemistry

Organizer: Hyunjung Kim (Kongju National University)

Chair: Dae Hong Jeong (Seoul National University)

15:40 **EDU-1** Understanding Students' Choices of Science Subjects for the CSAT: Experiences and Perceptions

Jihun Park, Hyunjung Kim^{1, *}, Minhwan Kim², Jeongho Kim³, Jongcheol Seo⁴, Jeong-Mo Choi⁵, Myung Hwan Park⁶, Eun Jeong Yoo⁷, In Seok Hong⁸
Department of Science Education, Gyeongin National University of Education, Korea

¹Department of Chemistry Education, Kongju National University, Korea

²Department of Chemistry Education, Chonnam National University, Korea

³Department of Chemistry, Inha University, Korea

⁴Department of Chemistry, POSTECH, Korea

⁵Department of Chemistry, Pusan National University, Korea

⁶Department of Chemical Education, Chungbuk National University, Korea

⁷Department of Applied Chemistry, Kyung Hee University, Korea

⁸Department of Chemistry, Kongju National University, Korea

16:00 **EDU-2** Winter Is Coming: We Are Losing the Next Generations of Chemists

Jongcheol Seo, Jihun Park¹, Hyunjung Kim², Minhwan Kim³, Jeongho Kim⁴, Jeong-Mo Choi⁵, Myung Hwan Park⁶, Eun Jeong Yoo⁷, In Seok Hong⁸
Department of Chemistry, POSTECH, Korea

¹Department of Science Education, Gyeongin National University of Education, Korea

²Department of Chemistry Education, Kongju National University, Korea

³Department of Chemistry Education, Chonnam National University, Korea

⁴Department of Chemistry, Inha University, Korea

⁵Department of Chemistry, Pusan National University, Korea

⁶Department of Chemical Education, Chungbuk National University, Korea

⁷Department of Applied Chemistry, Kyung Hee University, Korea

⁸Department of Chemistry, Kongju National University, Korea

Speaker



Jeongho Kim

Present Professor, Department of Chemistry, Inha University, Korea
2004 Ph.D., Department of Chemistry, University of Chicago, United States
1998 B.S., Department of Chemistry, KAIST, Korea



Dojun Jung

Present Assistant Professor, Department of Science Education, Chuncheon National University of Education, Korea

16:20 **EDU-3** Roles and Responsibilities of CSAT Exam Committee

Jeongho Kim

Department of Chemistry, Inha University, Korea

16:40 **EDU-4** Proposal for Future-Oriented Standardization of Chemistry Education:
Focusing on Elementary and Middle Schools

Dojun Jung

Department of Science Education, Chuncheon National University of Education, Korea

Symposium

Environmental Energy Symposium
October 23 (Thu), Room 601

Organizer



Youngkook Kwon
Present Associate Professor, School of Energy and Chemical Engineering, UNIST, Korea
2016 Postdoc, Joint Center for Artificial Photosynthesis, IBM, United States
2013 Ph.D, Leiden Institute of Chemistry, Leiden University, The Netherlands

Speaker



Hyung Ju Kim
2015-Present Principal Researcher, Hydrogen Energy Research Center, Korea Research Institute of Chemical Technology, Korea
2012-2014 Postdoctoral Research Associate, Department of Chemical and Biological Engineering, University of Wisconsin-Madison, United States



Yun Jeong Hwang
2021-Present Associate Professor, Department of Chemistry, Seoul National University, Korea
2012-2021 KIST, Korea
2006-2012 Ph.D, Department of Chemistry, University of California, Berkeley, United States



Dong Ki Lee
Present Staff Scientist, Clean Energy Research Center, KIST, Korea
2015-2018 Postdoctoral Researcher, Chemistry, UW-Madison, United States
2015 Ph.D, Materials Science and Engineering, KAIST, Korea



Jihun Oh
Present Professor, Department of Materials Science and Engineering, KAIST, Korea

36. Electrocatalytic Valorization of Carbon and Nitrogen Compounds

Organizer: Youngkook Kwon (UNIST)

Chair: Youngkook Kwon (UNIST)

15:40 **ENVR-1** Catalyst Design Strategies for Electrochemical Glycerol Oxidation Reaction

Hyung Ju Kim

Hydrogen Energy Research Center, Korea Research Institute of Chemical Technology, Korea

16:10 **ENVR-2** Activity Control in Electrochemical Oxidation Reaction for Valorization

Yun Jeong Hwang

Department of Chemistry, Seoul National University, Korea

16:40 **ENVR-3** Simultaneous Capture and Conversion of NO in Flue Gas at Room Temperature

Dong Ki Lee

Clean Energy Research Center, KIST, Korea

17:10 **ENVR-4** The D-Band Center Model for Selective Electrochemical CO₂ Reduction Reaction

Jihun Oh

Department of Materials Science and Engineering, KAIST, Korea

Organizer



Ji Hun Park

Present Associate Professor,
Department of Science
Education, Ewha Womans
University, Korea
2016-2018 Postdoc, School of Chemical
and Biomolecular
Engineering, Georgia Institute
of Technology, United States
2015 Ph.D., Department of
Chemistry, KAIST, Korea

Chair



Kyueui Lee

Present Associate Professor,
Department of Chemistry,
Kyungpook National
University, Korea
2021 Postdoc, Department of
Bioengineering, UC Berkeley,
United States
2017 Ph.D., Department of
Chemistry, KAIST, Korea

37. Oral Presentation for Young Polymer Scientists

Organizer: Ji Hun Park (Ewha Womans University)

Chair: Kyueui Lee (Kyungpook National University)

- 09:00 **POLY.O-1** Thermally Robust Liquid Crystalline Polymers Derived from Bismaleimide with Dynamic Covalent Networks
Woohyeon Kwon, Kyosun Ku¹, Hyeonuk Yeo^{2,*}
School of Chemical Engineering and Applied Chemistry, Kyungpook National University, Korea
¹Advanced Institute of Water Industry, Kyungpook National University, Korea
²Department of Chemistry Education, Kyungpook National University, Korea
- 09:15 **POLY.O-2** Exploring the Copolymerization of Propylene Oxide and CO₂ over a Heterogeneous Zn-Gallate Catalyst
Kihyuk Sung, Hye-Young Jang^{1,*}
Department of Energy Systems Research, Ajou University, Korea
¹Department of Chemistry, Ajou University, Korea
- 09:30 **POLY.O-3** DNAOD: A Predictive Tool for DNA Absorption Spectra Using a Three-Base Nearest-Neighbor Model
Banyu Firdaus Soeriawidjaja, Minseok Kwak^{1,*}
Department of Industry 4.0 Convergence Bionics Engineering, Pukyong National University, Korea
¹Department of Chemistry, Pukyong National University, Korea
- 09:45 **POLY.O-4** Palladium(II)-Catalyzed Reversible-Deactivation Vinyl-Addition Polymerization of 5-Vinyl-2-Norbornene for Enhancing the Chemoselectivity
Kyulee Jung, Chang-Geun Chae^{*}
Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea
- 10:00 Coffee Break

Chair: Ji Hun Park (Ewha Womans University)

- 10:15 **POLY.O-5** In situ Cross-Linked Ordered Morphology via Polymerization-Induced Microphase Separation by High χ System
Wonjune Yeo, Myungeun Seo*
Department of Chemistry, KAIST, Korea
- 10:30 **POLY.O-6** Sub-Nanocluster Platinum Decorated MXene/PEDOT:PSS Composites for Efficient Electrocatalyst
Da-Young Lee, Myung-Han Yoon*
Department of Materials Science and Engineering, GIST, Korea
- 10:45 **POLY.O-7** Depolymerization of Polyethylene Terephthalate into Highly Pure Bis(2-Hydroxyethyl) Terephthalate Using a Micro-Sized MgO-Incorporated SiO₂ Catalyst
Eun Hyup Kim, Hoik Lee*
Safety Convergence Technology R&D Department, Korea Institute of Industrial Technology, Korea

Organizer



Jeong-Eun Park

Present Assistant Professor,
Department of Chemistry,
GIST, Korea
2022 Postdoc, Department of
Chemistry, Northwestern
University, United States
2018 Ph.D., Department of
Chemistry, Seoul National
University, Korea

38. Oral Presentation of Young Scholars in Inorganic Chemistry

Organizer: Jeong-Eun Park (GIST)

Chair: Jeong-Eun Park (GIST)

- 09:30 **INOR.O-1** Remarkable Coordination Geometry Transformation in Metal-Organic Frameworks Triggered by External Stimuli Based on Olefinic Ligands
Kyunghye Ju, Taehun Kim, Jisu Lim, In-Hyeok Park*
Graduate School of Analytical Science and Technology, Chungnam National University, Korea
- 09:45 **INOR.O-2** Reproducible Fabrication of 3D/Chiral 2D Perovskite Heterostructure Thin Films via Automated Processing for Circularly Polarized Light Detectors
Sang Hyun Nam, Young-Hoon Kim*
Department of Energy Engineering, Hanyang University, Korea
- 10:00 **INOR.O-3** Excited-State Reductive Elimination Reactions of Divalent Organonickel Complexes: Distinct Reactivity with Aromatic and Aliphatic Carbon Ligands
Jiseon Lee, Jeongcheol Shin¹, Kiyoun Park*
Department of Chemistry, KAIST, Korea
¹*Department of Chemistry, Duksung Women's University, Korea*
- 10:15 **INOR.O-4** Iron Oxide Nanoparticles Modified with Galloylated DNA for Magnetically Enhanced DNA-Directed Assembly
Murali Golla, So-Jung Park*
Department of Chemistry & Nanoscience, Ewha Womans University, Korea
- 10:30 **INOR.O-5** Systematic Control of Spin States in a Single Stable Organic Radical Unit
Jaelim Kim, Jeongcheol Shin^{1, *}, Sun Hee Kim^{2, *}, Eunsung Lee^{3, *}
Department of Chemistry, POSTECH, Korea
¹*Department of Chemistry, Duksung Women's University, Korea*
²*Western Seoul Center, Korea Basic Science Institute, Korea*
³*Department of Chemistry, Seoul National University, Korea*
- 10:45 **INOR.O-6** Crystal Engineering of Metallosupramolecules of Macrocyclic Ligand Systems
Seulgi Kim
Mineral Processing and Metallurgy Research Center, Korea Institute of Geoscience and Mineral Resources, Korea

Organizer



Seung Jun Lee
Present Assistant Professor,
Department of IT & Energy
Convergence, Korea National
University of Transportation,
Korea
2019 Ph.D., Department of
Chemistry, Gyeongsang
National University, Korea

39. Oral Presentation for Leading, Emerging, and Young Physical Chemists I

Organizer: Seung Jun Lee (Korea National University of Transportation)

Chair: Seung Jun Lee (Korea National University of Transportation)

- 09:00 **PHYS1.O-1** Tailoring the Interaction Between Alanine Capped Gold Nanoparticle and Structurally Similar Coumarin Dyes: Interplay Between Proton Transfer and Restriction of Molecular Twisting
Aloke Bapli, Sang Hak Lee*
Department of Chemistry, Pusan National University, Korea
- 09:10 **PHYS1.O-2** Fundamental Understanding of Interfacial Charge Transfer in Semiconductor-Based Photoelectrodes
Dae Han Wi
Department of Chemistry, Chungnam National University, Korea
- 09:30 **PHYS1.O-3** Molecular Dynamics Simulation Study of Doxorubicin-Induced Cardiotoxicity: The Role of Cardiolipin in Drug Membrane Permeation
Namho Kim, Hyonseok Hwang*
Department of Chemistry, Kangwon National University, Korea / Institute for Molecular Science and Fusion Technology, Korea
- 09:40 **PHYS1.O-4** Phase- and Composition-Engineered Transition Metal Dichalcogenide Alloy Nanosheets for Efficient Hydrogen Evolution Reaction
Ik Seon Kwon
Department of Energy Science & Engineering, Kunsan National University, Korea
- 10:00 **PHYS1.O-5** Theoretical Strategies for Developing Organic Materials in IR Thermal Imaging
Eunkyung Cho
Division of Energy Technology, DGIST, Korea
- 10:10 **PHYS1.O-6** Nanomaterials-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry for Mass Spectrometric Analysis of Small Molecules
Young-Kwan Kim
Department of Chemistry, Dongguk University, Korea
- 10:30 **PHYS1.O-7** Measurement of Rate Constant in Gas Phase for Atmospheric Lifetime Using Comparative Reaction Method (CRM)
Bong Gyu Jeong, Sanghoon Park
Climate Technology Center, Korea Testing & Research Institute, Korea
- 10:40 **PHYS1.O-8** Janus-Type Photophysics of Directly-Linked Acene Dimers
Woojae Kim
Department of Chemistry, Yonsei University, Korea

Organizer



Gyeongwon Kang

Present Assistant Professor,
Department of Chemistry,
Kangwon National University,
Korea

2023 Postdoc, Cavendish
Laboratory, University of
Cambridge, United Kingdom

2021 Ph.D., Department of
Chemistry, Northwestern
University, United States

40. Oral Presentation for Leading, Emerging, and Young
Physical Chemists II

Organizer: Gyeongwon Kang (Kangwon National University)

Chair: Gyeongwon Kang (Kangwon National University)

- 09:00 **PHYS2.O-1** Secondary Structure of Protein Ion in the Cryogenic Gas Phase
Iltae Yoo, Jinho Jeong, Nam Joon Kim*
Department of Chemistry, Chungbuk National University, Korea
- 09:10 **PHYS2.O-2** Non-Destructive Detection of Orbital Angular Momentum Using
Coherent Raman Spectroscopy
Ju Young Kim, Minhaeng Cho^{1,*}
*Department of Chemistry, Korea University, Korea / Center for Molecular
Spectroscopy and Dynamics, IBS, Korea*
¹*Department of Chemistry, Korea University, Korea*
- 09:30 **PHYS2.O-3** Probing the Low-Energy Vibrational Modes of Ice I Using Resonant
Inelastic X-ray Spectroscopy
Yeseul Han, Kyung Hwan Kim*
Department of Chemistry, POSTECH, Korea
- 09:40 **PHYS2.O-4** First-Principles Study of Hidden Oxygen-Deficient $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3-\delta}$
Phases during Electrochemical Phase Transitions
Yongjin Shin
*Department of Semiconductor Convergence Engineering, Dankook University,
Korea*
- 10:00 **PHYS2.O-5** Resolving Conformers in Equilibrium via IR Resonant VUV-MATI
Spectroscopy
Sung Man Park, Chan Ho Kwon*
*Department of Chemistry, Kangwon National University, Korea / Institute for
Molecular Science & Fusion Technology, Kangwon National University, Korea*
- 10:10 **PHYS2.O-6** Revisiting Time-Resolved Spectroscopy: Beyond Kinetics, Toward
Hidden Dimensions
Junwoo Kim
Department of Chemistry, Chungbuk National University, Korea

- 10:30 **PHYS2.O-7** Thickness-Dependent Relaxation of Near-IR Excitons in 2D CrCl_3 Crystals
Hyesun Kim, Sunmin Ryu*
Department of Chemistry, POSTECH, Korea
- 10:40 **PHYS2.O-8** Hot Carrier Dynamics and Interfacial Engineering for Advanced Nanocatalysis
Hyosun Lee
Department of Materials Science and Engineering, University of Seoul, Korea

Organizer



Ara Jo

Present Assistant Professor,
Department of Chemistry,
Kangwon National University,
Korea

2021 Postdoc, Materials Science
and Engineering,
Northwestern University,
United States

2018 Ph.D., Department of
Chemistry & Nanoscience,
Ewha Womans University,
Korea

41. Oral Presentation of Young Analytical Chemists I

Organizer: Ara Jo (Kangwon National University)

Chair: Ara Jo (Kangwon National University)

- 09:00 **ANAL1.O-1** Biophysical and Mass Spectrometry-Based Characterization of a Peptide Inhibitor Targeting Pathological Tau from Alzheimer's Disease
Changwoo Wi, Tae Su Choi*
Division of Life Sciences, Korea University, Korea
- 09:09 **ANAL1.O-2** Dicarboxylate Linker-Driven Structural Diversity in Zinc(II)-Based Metal-Organic Frameworks Incorporating an Olefin 4-Styrylpyridine
Jisu Lim, Taehun Kim, Kyunghye Ju, Gyeonggeun Ahn¹, In-Hyeok Park*
Graduate School of Analytical Science & Technology, Chungnam National University, Korea
¹*Department of Chemistry, Chungnam National University, Korea*
- 09:18 **ANAL1.O-3** Direct Lipid Analysis of Salivary Exosomes and Microvesicles by Flow Field-Flow Fractionation Coupled with Electrospray Ionization Tandem Mass Spectrometry
Donggyun Kim, Myeong Hee Moon*
Department of Chemistry, Yonsei University, Korea
- 09:27 **ANAL1.O-4** Probing Chemical Interface Damping during the Electroreduction of 4-Nitrothiophenol by In Situ Single-Particle Spectroelectrochemistry
Andreas Silalahi, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- 09:36 **ANAL1.O-5** Single-Particle Investigation of Plasmon Modulation in Au Nanorod-Hematite Core-Shells via Dark-Field Spectroelectrochemistry
Yola Yolanda Alizar, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- 09:45 **ANAL1.O-6** Adsorption & Detection of Heavy Metal Ions in Water System via Polyannic Acid Functionalized Au Nanoparticle Film
Joowon Moon, Kyueui Lee*
Department of Chemistry, Kyungpook National University, Korea
- 09:54 **ANAL1.O-7** Identification of Meat Spoilage Stages via Full-Range FTIR Spectroscopy and Hybrid Learning Models
Sooyeol Phyo, Berkay Yesildagli, Jiwon Lee*
Center for Climate and Carbon Cycle Research, KIST, Korea

- 10:03 **ANAL1.O-8** Host–Guest Complexation Dynamics: Cholesterol-Induced Molecular Exchange on β -Cyclodextrin-Coated Gold Nanorods
Nahyun Kim, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- 10:12 **ANAL1.O-9** Metal – Semiconductor Interfacial Engineering for Stronger Plasmon Damping: A Single – Particle Study of Au – AgCdSe Nanostructures
Rafifah Hana Raihana Syam, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- 10:21 **ANAL1.O-10** Lipid Analysis of Human Skin with Melanoma and Dysplastic Nevus by Nanoflow UHPLC-ESI-MS/MS
Junha Choi, Soomin Kang, Myeong Hee Moon*
Department of Chemistry, Yonsei University, Korea
- 10:30 **ANAL1.O-11** LC-MS/MS Detection of Protein-Adduct Biomarkers of Chemical Warfare Agents in Dandelion for Environmental and Forensic Applications
Han-Yeol Nam, Seong Hun Hong, Moonhyuck Choi, Moonsik Shin*
Department of Chemical Analysis and Synthesis, CBRN Defense Research Institute, Ministry of Defense, Korea
- 10:39 **ANAL1.O-12** Improved Photoelectrochemical Sensing Performance for Glucose Detection Using Heterostructure Nanocomposite
Gunasekaran Manibalan, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- 10:48 **ANAL1.O-13** Probing Chemical Interface Damping in Bimetallic Silver-Coated Gold Nanorods with Exposed Gold Tips via Single-Particle Spectroscopy
Geun Wan Kim, Ji Won Ha*, Seunghyun Lee^{1, *}
Department of Chemistry, University of Ulsan, Korea
¹*Department of Chemical and Molecular Engineering, Hanyang University, Korea*

Organizer



Hee-Kyung Na

Present Principal Research Scientist,
Nanobio Measurement
Group, Division of Biomedical
Metrology, Korea Research
Institute of Standards and
Science, Korea

Chair



Seungah Lee

Present Assistant Professor,
Department of Applied
Chemistry, Kyung Hee
University, Korea
2013 Research Professor,
Department of Applied
Chemistry, Kyung Hee
University, Korea
2010 Ph.D., Department of
Chemistry, Jeonbuk National
University, Korea

42. Oral Presentation of Young Analytical Chemists II

Organizer: Hee-Kyung Na (Korea Research Institute of Standards and Science)

Chair: Seungah Lee (Kyung Hee University)

- 14:30 **ANAL2.O-1** Metabolic Changes of Kidney Cortex and Medulla in CKD
Sunho Lee, Youngae Jung¹, Geum-Sook Hwang^{2,*}
Metropolitan Seoul Center, Korea Basic Science Institute, Korea
¹Western Seoul Center, Korea Basic Science Institute, Korea
²Integrated Metabolomics Research Group, Korea Basic Science Institute, Korea
- 14:39 **ANAL2.O-2** Temperature-Modulated Ultramicroporous Carbon Molecular Sieve Membranes for High-Temperature Hydrogen Isotope Separation
Hyunlim Kim, Hyunchul Oh*
Department of Chemistry, UNIST, Korea
- 14:48 **ANAL2.O-3** Serum Metabolomics for Biomarker Discovery in Alzheimer's Disease Using IVDr NMR Spectroscopy
Seung-Hoon Lee, Jueun Lee¹, Geum-Sook Hwang*
Integrated Metabolomics Research Group, Korea Basic Science Institute, Korea
¹Western Seoul Center, Korea Basic Science Institute, Korea
- 14:57 **ANAL2.O-4** Metabolomic Analysis of UUO-Induced Kidney Injury in Mouse Models
Hyeri Kim, Jueun Lee¹, Geum-Sook Hwang^{2,*}
Metropolitan Seoul Center, Korea Basic Science Institute, Korea
¹Western Seoul Center, Korea Basic Science Institute, Korea
²Integrated Metabolomics Research Group, Korea Basic Science Institute, Korea
- 15:06 **ANAL2.O-5** Carboxymethyl Starch as Biodegradable Barrier Material : NMR-Based Structural Characterization for Postoperative Adhesion Prevention
Yujin Lee, Youngbok Lee^{1,*}
Department of Applied Chemistry, Hanyang University, Korea
¹Department of Bionano Engineering, Hanyang University, Korea
- 15:15 **ANAL2.O-6** Partial Degradation and Chemical Transformation of Polystyrene Foam Mediated by Mealworms and Associated Microorganisms
Seungyoung Im, Youngbok Lee^{1,*}
Department of Applied Chemistry, Hanyang University, Korea
¹Department of Bionano Engineering, Hanyang University, Korea

- 15:24 **ANAL2.O-7** SABRE-Relay Hyperpolarization of Alcohols Using Acethydrazide as a Carrier Agent
Thi Quynh Nguyen, Seokki Yun¹, Dinh Van Nguyen¹, Seyoung Yang¹, Youngbok Lee^{2,*}
Department of Applied Chemistry, Hanyang University, Korea / Department of Bionano Convergence, Hanyang University, Korea
¹Department of Applied Chemistry, Hanyang University, Korea
²Department of Bionano Engineering, Hanyang University, Korea
- 15:33 **ANAL2.O-8** Unraveling Crystallinity Changes of PVDF Binders During Cycling Using Solid-State NMR for High-Performance Electrode
Seokki Yun, Seyoung Yang, Jaehwa Choi, Youngbok Lee^{1,*}
Department of Applied Chemistry, Hanyang University, Korea
¹Department of Bionano Engineering, Hanyang University, Korea
- 15:42 **ANAL2.O-9** Molecular Design and Application of Light-Responsive Microcapsules for Skin Delivery
Seyoung Yang, Minji Song, Youngbok Lee^{1,*}
Department of Applied Chemistry, Hanyang University, Korea
¹Department of Bionano Engineering, Hanyang University, Korea
- 15:51 **ANAL2.O-10** Amphiphilic Mesoporous Silica-Polydopamine Janus Nanoparticles for Biphasic Oil-Water Pollutant Removal
Dinh Van Nguyen, Youngbok Lee^{1,*}
Department of Applied Chemistry, Hanyang University, Korea
¹Department of Bionano Engineering, Hanyang University, Korea
- 16:00 **ANAL2.O-11** Development of Efficient Electrocatalysts for Renewable 2,5-Dimethylfuran Production from 5-Hydroxymethylfurfural
Min Seung Kwon, Dongho Lee^{*}
Department of Chemistry, University of Ulsan, Korea
- 16:09 **ANAL2.O-12** Enhancement of Photocatalytic Activity via Introduction of Oxygen Vacancies in Hematite
Jaehwan Cheong, Joohoon Kim^{*}
Department of Chemistry, Kyung Hee University, Korea
- 16:18 **ANAL2.O-13** Control of Electrochemical Reactions Using Structural Features of Nanoporous Electrodes
Hyun Ju Yang, Junhee Yu, Hyo Chan Lee, Sunyeong Hong, Je Hyun Bae^{*}
Graduate School of Analytical Science and Technology, Chungnam National University, Korea

Organizer



Tackhoon Kim

Present Principal Research Scientist,
Medicinal Materials Research
Center, KIST, Korea
2016-2019 Postdoc, Research Lab of
Electronics, MIT, United
States
2008-2015 Ph.D., Department of
Biological Sciences, KAIST,
Korea

Speaker



Young-Tae Chang

Present Professor, Department of
Chemistry, POSTECH, Korea
2000-2017 Assistant, Associate & Full
Professor at NYU & NUS
1997 Ph.D., Department of
Chemistry, POSTECH, Korea

43. Oral Presentation for Young Scientists in Life Chemistry

Organizer: Tackhoon Kim (KIST)

Chair: Tackhoon Kim (KIST)

- 09:00 **LIFE.O-1** DNA Tetrahedron-Templated Bispecific Aptamers for Enhanced Natural Killer Cell-Mediated Anti-Cancer Cytotoxicity
Farida Nirmala, Dae-Ro Ahn*
Chemical and Biological Integrative Research Center, KIST, Korea
- 09:10 **LIFE.O-2** Protein Nitration in Early-Onset Gastric Cancer: Evidence for MPO-Independent Activation and Metastatic Potential
Jae Won Oh, Kwang Pyo Kim*, Ah-Young Kim
Department of Applied Chemistry, Kyung Hee University, Korea
- 09:20 **LIFE.O-3** Structural Insights into Human mGlu6 Activation Prior to G Protein Coupling
Seo Young Lee, Hyung Ho Lee
Department of Chemistry, Seoul National University, Korea
- 09:30 **LIFE.O-4** Development of a Site-Specific Antibody Conjugation Platform for Dual-Payload Antibody-Drug Conjugates
Dohee Ahn, Sang Jeon Chung*
School of Pharmacy, Sungkyunkwan University, Korea
- 09:40 **LIFE.O-5** Active Armoring of Protocell Condensates with Metal-Phenolic Networks
Seongyun Park, Kyungtae Kang*
Department of Applied Chemistry, Kyung Hee University, Korea
- 09:50 **LIFE.O-6** Structural Studies of SMC Complexes
Byung-Gil Lee
School of Medicine, Gachon University, Korea
- 10:05 **LIFE.O-7** Manipulation of Biomolecular Liquid Droplets under Opto-Thermal Fields
Youngsun Kim
Chemical and Biological Integrative Research Center, KIST, Korea
- <Award Lecture: Sung-Kee Chung Award>
- 10:20 **LIFE.O-8** From Chemical Library to Biological Diversity
Young-Tae Chang
Department of Chemistry, POSTECH, Korea

Organizer



Won Jun Jang

Present Assistant Professor,
Department of Chemistry &
Nanoscience, Ewha Womans
University, Korea
2022 Postdoc, Department of
Chemistry, University of
Chicago, United States
2020 Ph.D., Department of
Chemistry, Sungkyunkwan
University, Korea

44. Oral Presentations for Young Organic Chemists

Organizer: Won Jun Jang (Ewha Womans University)

Chair: Won Jun Jang (Ewha Womans University)

- 09:00 **ORGN.O-1** Evaluation of Corrosion Inhibitors for Nuclear Materials in Oxalic Acid-Based Chemical Decontamination Process
Sion Kim, Changhyun Roh*
Nuclear Facility Cleanup Technology Division, Korea Atomic Energy Research Institute, Korea
- 09:15 **ORGN.O-2** From Alkynes to (*E*) & (*Z*) Vinyl Sulfones: Unlocking the Art of Stereoselective Hydrosulfonylation
Sujith Karinkara Periyarath, Anna Lee*
Department of Chemistry, Jeonbuk National University, Korea
- 09:30 **ORGN.O-3** Stereoselective Construction of Tricyclic Scaffold via Tandem Prins-Cyclization and Diels–Alder Reaction
Do Hoon Cha, Sun-Joon Min^{1, *}
Department of Applied Chemistry, Hanyang University, Korea
¹*Department of Chemical & Molecular Engineering, Hanyang University, Korea / Department of Applied Chemistry, Hanyang University, Korea*
- 09:45 **ORGN.O-4** Stereospecific *syn*-Dihalogenations and Regiodivergent *syn*-Interhalogenation of Alkenes via Vicinal Double Electrophilic Activation Strategy
Hyeon Moon, Jungi Jung, Juyeon Hong, Jun-Ho Choi*, Won-Jin Chung*
Department of Chemistry, GIST, Korea
- 10:00 **ORGN.O-5** Investigation of Proteome-Tetrazine Reactivity for a Highly Selective Tetrazine Ligation in Live Cells
Junyoung Park, Junhyeong Yim¹, Eunha Kim^{2, *}, Jongmin Park*
Department of Chemistry, Kangwon National University, Korea
¹*Department of Biophysics & Chemical Biology, Kangwon National University, Korea*
²*Department of Molecular Science and Technology, Ajou University, Korea*

- 10:15 **ORGN.O-6** Generality-Oriented Development of Enantio- and Regioselective Hydrosilylation: Enabled by High-Throughput Experimentation and Machine Learning
Terim Seo, Donghun Kim¹, Joonsuk Huh^{2,*}, Hyunwoo Kim^{1,*}, Do Hyun Ryu^{*}
Department of Chemistry, Sungkyunkwan University, Korea
¹*Department of Chemistry, KAIST, Korea*
²*Department of Chemistry, Yonsei University, Korea*
- 10:30 **ORGN.O-7** Single-Flask Mn(I)-Catalyzed C–H Dienylation–Cycloaddition for the Construction of Cyclohexene-Fused Indoles with Anti-Inflammatory Potential
Jinhwan Park, Jongwoo Son^{1,*}
Department of Chemical Engineering (BK21 FOUR Graduate Program), Dong-A University, Korea
¹*Department of Chemistry, Dong-A University, Korea*
- 10:45 **ORGN.O-8** Design and Synthesis of Pentiptycene-Based Fluorescent Organosulfur Polymers via SuFEx Chemistry for Rapid Explosives Detection
Sun Bu Lee, Han Yong Bae^{*}
Department of Chemistry, Sungkyunkwan University, Korea

Organizer



Yoonji Lee
Present Associate Professor, College of Pharmacy, Chung-Ang University, Korea
2020 Instructor, Department of Biophysics, University of Texas Southwestern Medical Center, United States
2013 Ph.D., College of Pharmacy, Ewha Womans University, Korea

Chair



Jung Yeol Lee
Present Principal Researcher, Daegu-Gyeongbuk Medical Innovation Foundation, Korea
2017 Postdoc, Department of Life Science, National University of Singapore, Singapore
2014 Ph.D., Department of Chemistry, Sogang University, Korea

45. Oral Presentation of Young Medicinal Chemists

Organizer: Yoonji Lee (Chung-Ang University)

Chair: Jung Yeol Lee (K-MEDI hub)

- 09:00 **MEDI.O-1** Discovery of Heteroaromatic Glutarimides as Metabolically Stable and Potent Single-Digit Nanomolar CRBN Ligands
Jeong-Won Shin, Nam-Jung Kim^{1, *}
Department of Biomedical and Pharmaceutical Sciences, Kyung Hee University, Korea
¹Department of Pharmacy, Kyung Hee University, Korea
- 09:15 **MEDI.O-2** Discovery of Lead Compounds Targeting Peripheral CB1 Receptors for Psoriasis Treatment
Wonjin Park, Yeonjeong Heo, Eunsu Kim, Eunha Kim^{*}
Department of Molecular Science & Technology, Ajou University, Korea
- 09:30 **MEDI.O-3** Identification of 5,7-Dihydro-6H-Pyrrolo[2,3-d]pyrimidin-6-one Derivatives as ENPP1 Inhibitors for STING Pathway-Mediated Immunotherapy
Suhyun Ji, Seojung Han^{*}
Chemical & Biological Integrative Research Center, Sogang University, Korea
- 09:45 **MEDI.O-4** Comparative Evaluation of [²¹¹At]MABG and [¹³¹I]MIBG in Pheochromocytoma
Hwisoo Lim, Choong Mo Kang^{1, *}, Jae Yong Choi^{2, *}
Division of Applied RI, Korea Institute of Radiological & Medical Science, Korea
¹Department of Nuclear Medicine, Samsung Medical Center, Korea
²Department of RI Convergence, Korea Institute of Radiological & Medical Science, Korea
- 10:00 **MEDI.O-5** Development of Broad-Spectrum Dengue Virus Inhibitors Targeting All Serotypes
Minseo Kil, Youyoung Kim¹, Gyu-Yong Song^{*}, Dong-Su Kim^{1, *}
Department of Pharmacy, Chungnam National University, Korea
¹ Infectious Diseases Therapeutic Research Center, Korea Research Institute of Chemical Technology, Korea

- 10:15 **MEDI.O-6** Improving SAR Prediction Accuracy During Lead Optimization through Free Energy Perturbation
Ri Han, Yoonji Lee^{1,*}
Department of Global Innovative Drug, Chung-Ang University, Korea
¹*Department of Pharmacy, Chung-Ang University, Korea*
- 10:30 **MEDI.O-7** Targeted Protein Degradation of RET
Jaewon Song, Taebo Sim^{1,*}
Department of Clinical Drug Discovery & Development, Yonsei University, Korea
¹*Department of Biomedical Science, Yonsei University, Korea*
- 10:45 **MEDI.O-8** Discovery of the Selective and Indirect Degradator of MK2
Minjoo Ko, Taebo Sim^{1,*}
Department of Medicine, Yonsei University, Korea
¹*Department of Biomedical Science, Yonsei University, Korea*

Organizer



Wan Pyo Hong
Present Associate Professor,
Department of Chemistry,
Gachon University, Korea
2013 Postdoc, Department of
Chemistry, University of
Wisconsin, United States
2011 Ph.D., Department of
Chemistry, Purdue University,
United States

Chair



Youngmin Ko
Present Assistant Professor,
Department of Chemistry,
Sungkyunkwan University,
Korea
2025 Postdoc, Lawrence Berkeley
National Laboratory, United
States
2021 Ph.D., Department of
Materials Science &
Engineering, Seoul National
University, Korea

46. Oral Presentation for Young Material Chemists

Organizer: Wan Pyo Hong (Gachon University)

Chair: Youngmin Ko (Sungkyunkwan University)

- 09:00 **MAT.O-1** Direct Synthesis of 2D Mo₂C MXene Thin Films by Chemical Vapor Deposition for Efficient Electrocatalysis
Junhyeok No, Hee Cheul Choi^{1, *}
Division of Advanced Materials Science, POSTECH, Korea
¹Department of Chemistry, POSTECH, Korea
- 09:10 **MAT.O-2** Highly Efficient NIR-II Photothermal Conversion of Cyclooctatetraene-Centered Fused-Orangarin via Excited-State Antiaromaticity
Jiyeon Lee, Seoyeah Oh, Juwon Oh^{1, *}, Jiwon Kim^{2, *}
School of Integrated Technology, Yonsei University, Korea
¹Department of Chemistry, Kyungpook National University, Korea
²Division of Integrated Science & Engineering, Yonsei University, Korea
- 09:20 **MAT.O-3** Redox-Controlled Chemistry of Stable Organic Radicals
Mina Ahn, Kyung-Ryang Wee*
Department of Advanced Materials Chemistry, Korea University, Korea
- 09:30 **MAT.O-4** Ligand-Engineered Metal Hydroxide Organic Framework (MHOF) Catalysts for Improved Electrochemical Urea Oxidation under Alkaline Conditions
Geonho Kim, Jiwon Kim^{1, *}
School of Integrated Technology, Yonsei University, Korea
¹Division of Integrated Science & Engineering, Yonsei University, Korea
- 09:40 **MAT.O-5** Unlocking Crystalline Cu₃(C₆O₆) Kagome Thin Films through Methanol-Assisted, Coordination-Modulated Chemical Vapor Deposition
Hyeonwoo Lee, Hee Cheul Choi*
Department of Chemistry, POSTECH, Korea
- 09:50 **MAT.O-6** Multi-Stimuli Responsive Catalytic Nanomotors for Efficient Water Purification
Jihyeon Park, Jiwon Kim^{1, *}, Seoyeah Oh
School of Integrated Technology, Yonsei University, Korea
¹Division of Integrated Science & Engineering, Yonsei University, Korea

- 10:00 **MAT.O-7** Identifying Ni-N₄ Species as a Major Active Site in Atomically Dispersed Ni Catalysts for Chlorine Evolution Reaction
Jinjong Kim, Sang Hoon Joo*
Department of Chemistry, Seoul National University, Korea
- 10:10 **MAT.O-8** Tailoring Exciton Dynamics in Mn²⁺-Doped Quasi-2D Perovskites for Anti-Counterfeiting and X-ray Scintillation
Dongjun Kim, Seoyoung Yoon, Jiwon Kim^{1,*}
School of Integrated Technology, Yonsei University, Korea
¹*Division of Integrated Science & Engineering, Yonsei University, Korea*
- 10:20 **MAT.O-9** Binder Engineering of Electrodeposited Cu₂O for Highly Selective Electrochemical Nitrate to Ammonia Conversion
Jiseok Kim, Hyunjoon Song*
Department of Chemistry, KAIST, Korea
- 10:30 **MAT.O-10** Transition Metal Carbide Nanoparticles Confined in 3D Mesoporous Graphene for Efficient Hydrogen Evolution Activity
Jeongwon Park, Hyun Jung*
Department of Chemistry, Dongguk University, Korea
- 10:40 **MAT.O-11** Synthesis of Yolk Shell Iron Sulfide with Carbon Shell for Anode of Sodium Ion Batteries
Deukhyeon Nam, Chan Woong Na, Yoon Myung*
Extreme Process Control Group, Korea Institute of Industrial Technology, Korea
- 10:50 **MAT.O-12** Vertically Grown Weyl Semimetal WTe₂ Nanowire Arrays for Efficient Hydrogen Evolution Reaction
Hyeonkyeong Kim, Youngdong Yoo^{1,*}
Energy Science Research Center, Ajou University, Korea
¹*Department of Chemistry, Ajou University, Korea*

Organizer



Minkyu Kim

2022- Present Assistant Professor, Department of Chemistry, Inha University, Korea
2020-2022 Postdoc, Argonne National Laboratory, United States
2019-2020 Staff Engineering, SAMSUNG SDI, Korea

Speaker



Jun Hui Park

Present Professor, Department of Chemistry, Chungbuk National University, Korea
2011 Ph.D., Department of Chemistry, KAIST, Korea
2005 B.S., Department of Chemistry, Yonsei University, Korea

47. Oral Presentation of Young Electrochemists

Organizer: Minkyu Kim (Inha University)

Chair: Minkyu Kim (Inha University)

- 09:00 **ELEC.O-1** Additive-Driven Nanoscale Architecture of Solid Electrolyte Interphase(SEI) Revealed by Cryogenic Transmission Electron Microscopy
Yonggoon Jeon
Department of Physics & Chemistry, Korea Military Academy, Korea
- 09:15 **ELEC.O-2** Proton-Coupled Electron Transfer on $\text{Cu}_2\text{O}/\text{Ti}_3\text{C}_2\text{T}_x$ MXene for Propane (C_3H_8) Synthesis from Electrochemical CO_2 Reduction
Seong Chan Cho, Sang Uck Lee*
School of Chemical Engineering, Sungkyunkwan University, Korea
- 09:30 **ELEC.O-3** Electrochemical Approach to Polymer Molecular Weight Measurement via the Modified Viscosity Equation
Jee Woo Kim, Byung-Kwon Kim*
Department of Chemistry & Nanoscience, Ewha Womans University, Korea
- 09:45 **ELEC.O-4** Boosting Oxygen Evolution Kinetics in Anion Exchange Membrane Electrolysis with Titanium-Incorporated Nickel Ferrite
Kyungbok Lee, Juchan Yang*
Hydrogen Materials Research Center, Korea Institute of Materials Science, Korea
- 10:00 **ELEC.O-5** Synthesis of F-Doped ZnCo_2O_4 Nanostructure for Oxygen Evolution Reaction
Deukhyeon Nam, Chan Woong Na, Yoon Myung*
Extreme Process Control Group, Korea Institute of Industrial Technology, Korea
- 10:15 **ELEC.O-6** DFT Study on Nb-Alloyed MoS_2 and WS_2 Nanosheets with Sulfur Vacancies for Enhanced Hydrogen Evolution Reaction Activity
Juyeon Kim, Junaid Ihsan¹, Irtiqah Mishal¹, Junhyeok Choi¹, Youn Jun Choi¹, Jeong Eun An¹, In Hye Kwak², Ik Seon Kwon³, Jeunghye Park^{1,*}, Hong Seok Kang^{4,*}
Department of Micro-Device Engineering, Korea University, Korea
¹Department of Advanced Materials Chemistry, Korea University, Korea
²Research Center for Materials Analysis, Korea Basic Science Institute, Korea
³Department of Energy Science & Engineering, Kunsan National University, Korea
⁴Department of Nano & Advanced Materials Engineering, Jeonju University, Korea
- <Award Lecture: i-SENS Young Electrochemist Award>
- 10:30 **ELEC.O-7** Collision Electrochemistry
Jun Hui Park
Department of Chemistry, Chungbuk National University, Korea

Organizer



Minhwan Kim

Present

Assistant Professor,
Department of Chemistry
Education, Chonnam National
University, Korea

48. New Trends in Chemistry Education

Organizer: Minhwan Kim (Chonnam National University)

Chair: Minhwan Kim (Chonnam National University)

- 09:00 **EDU.O-1** A Multi-Stakeholder Collaboration Model of Research–Practice Partnerships in Secondary Science Education and Social Responsibility
Hyunju Park, Jen Lewin¹, Ju Ran Shin
Department of Chemical Education, Chosun University, Korea
¹*Department of The Baxter Center for Science Education, Northwestern University, United States*
- 09:20 **EDU.O-2** A Study on the Science (Chemistry) Curriculum Implementation in Elementary, Junior High, and High Schools in Japan
Young Tae Kong
Department of General Science Education, Chinju National University of Education, Korea
- 09:40 **EDU.O-3** Forensic Science as a Interdisciplinary Science Curriculum
Man-Seog Chun
Department of Chemistry & Biology, Korea Science Academy of KAIST, Korea
- 10:00 **EDU.O-4** Educational Effects of General Chemistry Laboratory Courses on Undergraduate Students at UNIST
Eunyoung Kang, Geun Young Jin
Department of Chemistry, UNIST, Korea
- 10:20 **EDU.O-5** Development of a Periodic Table Learning Tool Using Rubik's Periodic Table Cubes
Jinho Oh, Dojun Jung^{1,*}
Department of Chemistry & Biology, Korea Science Academy of KAIST, Korea
¹*Department of Science Education, Chuncheon National University of Education, Korea*
- 10:40 **EDU.O-6** Exploring Pre-Service Elementary Teachers' Conceptual Difficulties in Chemistry Content Through Their Questions
Jong-Hyeok Lee
Center for Science Education in the Infosphere, Seoul National University, Korea

Organizer



Jin-Soo Park
Present Professor, Department of Green Chemical Engineering, Sangmyung University, Korea
2009 Senior Researcher, Fuel Cell Center, Korea Institute of Energy Research, Korea
2004 Ph.D., Department of Environmental Engineering, GIST, Korea



Hyungkuk Ju
Present Assistant Professor, Department of Energy Engineering, Dankook University, Korea
2023 Senior Researcher, Korea Institute of Energy Research, Korea
2020 Research Scientist / Project leader, CSIRO, Australia

49. Integration of Chemistry for Solving Environmental and Energy Challenges

Organizer: Jin-Soo Park (Sangmyung University)
Hyungkuk Ju (Dankook University)

Chair: Hyungkuk Ju (Dankook University)

- 09:00 **ENVR.O-1** Exploring the Origin of Highly Active Reaction Sites for Oxygen Evolution in Iron–Nickel Selenides
Seunghwa Lee
Department of Chemical Engineering, Changwon National University, Korea
- 09:30 **ENVR.O-2** Electrochemical Recovery of Critical Metals from Spent Batteries: Can We Achieve Both Selectivity and Yield?
Kwiyoung Kim
Department of Civil Urban Earth and Environmental Engineering, UNIST, Korea

Chair: Jin-Soo Park (Sangmyung University)

- 10:00 **ENVR.O-3** Redox-Mediated Photoelectrochemical (PEC) Water Treatment
Kihyun Cho
Department of Energy Engineering, Dankook University, Korea
- 10:30 **ENVR.O-4** Control of Nucleation Dynamics and Enhancing Lithium Surface Diffusivity on Li Metal Anodes and Current Collectors in Li-Ion Batteries
Suk Jun Kim
Department of Energy and Materials Engineering, Korea University of Technology and Education, Korea

POLY.P-1

Organic X-Ray Detectors with Reduced Dark Current Using Medium-Bandgap Polymer Donors

Hye-Seong Ko, Do-Hoon Hwang*, Jong-Woon Ha^{1, *}

Department of Chemistry, Pusan National University, Korea

¹*Department of Polymer Engineering, Gyeongsang National University, Korea*

POLY.P-2

Room-Temperature Ferroelectric Liquid Crystal for Next-Generation FeRAM Applications: Realizing Polarization Retention and Switching Properties

Seongwon Park, Byoung-Ki Cho*

Department of Chemistry, Dankook University, Korea

POLY.P-3

Reversible Switching of a Pyrene-Based Hexacatenar Liquid Crystal: A Fluorescent Polymorph System Controlled by Mechanochromism and a Novel E-field-Induced Transition.

Seongwon Park, Byoung-Ki Cho*

Department of Chemistry, Dankook University, Korea

POLY.P-4

Direct Ink Writing of MXene/PEDOT:PSS Electrodes for Integrated Self-Charging Micro-Supercapacitors and Triboelectric Nanogenerators

Minjae Kim, Seung Goo Lee*

Department of Chemistry, University of Ulsan, Korea

POLY.P-5

Synergistic Microtopography and Chemical Surface Modification for Bio-Inspired Anti-Biofouling Performance

Jeongwon Kim, Seung Goo Lee*

Department of Chemistry, University of Ulsan, Korea

POLY.P-6

Sustainable Engineering of Nitrogen-Enriched g-

Ru@N-MXene/g-rGO Hybrid Synthesized via Green Route for Electrocatalytic Water Splitting

Mirza Mahmood Baig, Seung Goo Lee*

Department of Chemistry, University of Ulsan, Korea

POLY.P-7

Fluoroalkylated Polynorbornenes for Low-Energy Surface with Low F/C Ratio.

Dongwoo Kang, Byungjin Koo*

Department of Polymer Science & Engineering, Dankook University, Korea

POLY.P-8

Synthesis and Characterization of a Low-Temperature Crosslinked Polyimide Using a (Hydroxymethyl)Benzoguanamine as a Cross-Linker

Eui Jeong Son, Taek Ahn*

Department of Applied Chemistry, Kyungshung University, Korea

POLY.P-9

Synthesis and Thin Film Properties of a Soluble Polyimide/Tetrafluorophthalate Attached BaTiO₃ Nanocomposite for Solution Processable High K Dielectric

Eui Jeong Son, Taek Ahn*

Department of Applied Chemistry, Kyungshung University, Korea

POLY.P-10

Sequence Ensemble Engineering by Composition Distribution Control

Jimin Yoo, Myungeun Seo*

Department of Chemistry, KAIST, Korea

POLY.P-11

Thermally Cross-Linkable Poly(iminoarylene) for Efficient Hole Injection and Transport in Solution-Processed OLEDs

Seon Lee Kwak, Do-Hoon Hwang*

Department of Chemistry, Pusan National University, Korea

POLY.P-12

Flame-Retardant Performance of Acrylic Copolymers Containing Phosphorus-Functional Monomers

Suhyeon Jo, Hoyoul Kong*, Ka Yeon Ryu¹

Department of Chemistry, Gyeongsang National University, Korea

¹*Department of Chemistry, Gyeongsang National University, Korea / Research Institute of Molecular Alchemy, Gyeongsang National University, Korea*

POLY.P-13

Post-Functionalization of Polyethers by Photoinduced C–H Amidation via Polar-Radical Relay

Seung Beom Baek, Young-Ho Kim, Sangwon Seo¹, Dongwook Kim², Myungeun Seo^{*}, Sukbok Chang^{3, *}

Department of Chemistry, KAIST, Korea

¹*Department of Physics & Chemistry, DGIST, Korea*

²*Center for Catalytic Hydrocarbon Functionalization, IBS, Korea*

³*Department of Chemistry, IBS/KAIST, Korea*

POLY.P-14

Inverted Morphology Obtained by Polymerization-Induced Microphase Separation from the Bottlebrush Diblock Architecture

Seungjin Ha, Changsu Yoo, Myungeun Seo^{*}
Department of Chemistry, KAIST, Korea

POLY.P-15

Synthesis of Oligomeric Polyester Polyol Acrylates from Biomass-Derived Byproduct Acids
Yubin Chang, Ka Yeon Ryu¹, Hoyoul Kong^{*}
Department of Chemistry, Gyeongsang National University, Korea

¹*Department of Chemistry, Gyeongsang National University, Korea / Research Institute of Molecular Alchemy, Gyeongsang National University, Korea*

POLY.P-16

ROMP-Derived High-*k* Star Polymers: Influence of Monomer and Crosslinker Design on Dielectric Properties

Jihwan Na, Sanghee Yang^{*}
Department of Chemistry, Inha University, Korea

POLY.P-17

Defect Engineering in Crystalline Polymers for Two-Dimensional Nanostructure Formation
Gyusung Hwang, Sanghee Yang^{*}
Department of Chemistry, Inha University, Korea

POLY.P-18

Synthesis and Characterization of Core-Shell Acrylic Emulsions with Phosphorus-Containing Monomers of Different Oxidation States

Youngeun Park, Suhyeon Jo, Ka Yeon Ryu¹, Hoyoul Kong^{*}

Department of Chemistry, Gyeongsang National University, Korea

¹*Department of Chemistry, Gyeongsang National University, Korea / Research Institute of Molecular Alchemy, Gyeongsang National University, Korea*

POLY.P-19

Unlocking Ring-Opening Polymerization of Glycidyl Propargyl Ether via Lewis Pair Organocatalysts

Byungwoo Yoo, Byeong-Su Kim^{*}
Department of Chemistry, Yonsei University, Korea

POLY.P-20

Biocompatible Siloxane-Based Polymers via Acid-Catalyzed Ring-Opening for Enhanced Transdermal Drug Delivery

Rae Hyung Kang
Department of Pharmaceutical Engineering, Dankook University, Korea

POLY.P-21

Effect of MOCA Incorporation on the Properties of UV-Curable Polyurethane Acrylates

Rakhyeon Kim, Ka Yeon Ryu¹, Hoyoul Kong^{*}
Department of Chemistry, Gyeongsang National University, Korea

¹*Department of Chemistry, Gyeongsang National University, Korea / Research Institute of Molecular Alchemy, Gyeongsang National University, Korea*

POLY.P-22

Sequence Distribution-Controlled Polymerization of Styrene/MMA Copolymer via Post Polymer Modification

Sung Han Park, Muniyappan Boominathan^{*}, Myungeun Seo^{*}
Department of Chemistry, KAIST, Korea

POLY.P-23

Hierarchical Chiral Plasmonic Architectures Enabled by Star-Shaped Block Copolymers
Seohyun Jung, Dong Ha Kim^{*}
Department of Chemistry & Nanoscience, Ewha Womans University, Korea

POLY.P-24

Network Ionic Polymer Composite Electrolytes Containing Piperidinium-Based Ionic Salt
Suyeon Kim, Minjae Lee^{*}
Department of Chemistry, Kunsan National

University, Korea

POLY.P-25

Synthesis and Characterization of Dicationic Pyrrolidinium Zwitterions.

Eunji Yun, Minjae Lee*

Department of Chemistry, Kunsan National University, Korea

POLY.P-26

Controlled Hydrogenation of Unsaturated Polymers via Tetralin-Mediated Transfer Hydrogenation under Ambient Pressure

Seulchan Lee, Soon Hyeok Hong*

Department of Chemistry, KAIST, Korea

POLY.P-27

Development of a Chondroitin Sulfate-Bile Acid Coated Nanoparticle-Based Oral Drug Delivery System for Fish and Assessment of Targeting Efficiency Using GFP

Sojeong Min, Namdoo Kim*, Longhai Piao*

Department of Chemistry, Kongju National University, Korea

POLY.P-28

Effect of Solution Concentration on Diameter and Morphology of Electrospun PVA Nanofibers

Hakrae Lee, Longhai Piao*

Department of Chemistry, Kongju National University, Korea

POLY.P-29

ROMP of Nine-Membered Cyclic Carbamate Monomers for Functional Polycarbonates

Gayeon Park, Cheolja Kim*

Department of Chemistry, Chungbuk National University, Korea

POLY.P-30

Synthesis of Chemically Recyclable Functional Polymers from Medium-Sized Bicycles via Reversible Ring-Opening Metathesis Polymerization

Subin Shin, Cheolja Kim*

Department of Chemistry, Chungbuk National University, Korea

POLY.P-31

Chitosan Nanoparticle-Based Oral Plasmid DNA Vaccine Delivery System for Fish

Kisoo Kim, Longhai Piao*, Namdoo Kim*

Department of Chemistry, Kongju National University, Korea

POLY.P-32

Synthesis of Well-Defined Poly(4-vinylphenol) via Nitroxide-Mediated Polymerization and Acidic Hydrolysis

Jinseok Lee, Chang-Geun Chae^{1,*}

Department of Chemical & Biomolecular Engineering, Yonsei University, Korea

¹Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea

POLY.P-33

N-Alkylamide-Functionalization of Vinyl-Addition Polynorbornenes via Post-Polymerization Modification

Jun Woo Park, Chang-Geun Chae^{1,*}

Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea / Department of Chemistry, Yonsei University, Korea

¹Advanced Functional Polymers Research Center, Korea Research Institute of Chemical Technology, Korea

POLY.P-34

Use of Carbodicarbene as a Single Organic Initiator in the Conjugate-Addition Polymerization of (Meth)acrylic Monomers

Jiseon Gwon, Kunou Kim, Minseop Kim¹, Jongcheol Seo¹, Eunsung Lee^{2,*}, Kyung-Sun Son*
Department of Chemistry, Chungnam National University, Korea

¹Department of Chemistry, POSTECH, Korea

²Department of Chemistry, Seoul National University, Korea

POLY.P-35

Fabrication of Liquid Hybrid Fibers via Interfacial Molecular Assembly

Hwimin Kim, Seonki Hong*

Department of Physics & Chemistry, DGIST, Korea

POLY.P-36

Fluorinated Polynorbornenes with Triethylene Glycols for Selective Lithium Extraction

Yongseok Hur, Byungjin Koo*

Department of Polymer Science & Engineering, Dankook University, Korea

POLY.P-37

Plus: A Universal Coating Platform for Enhanced Antibody Immobilization

Nayoung Son, Seonki Hong*

Department of Physics and Chemistry, DGIST, Korea

POLY.P-38

Oral Drug Delivery System for Fish Using Bile Acid-Conjugated Liposomes Encapsulating

rVHSV-eGFP Virus

Hyobin Park, Longhai Piao*, Namdoo Kim*

Department of Chemistry, Kongju National University, Korea

POLY.P-39

Mechanochemical Upcycling of Polystyrene

Gregory Peterson

Department of Chemistry, Incheon National University, Korea

POLY.P-40

Aggregation-Induced Emission Dye for Fluorescent Detection of Microplastics in Green Channel

Soyeon Kim, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-41

Development of an Aggregation-Induced Emission Fluorescent Dye for Efficient Microplastic Staining and Detection

Ayin Lee, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-42

Detection of Various Microplastics Using a Solid-State Fluorescent Dye

Eunha Han, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-43

Selective Staining of Polyethylene Terephthalate (PET) Microplastic by Fluorescence Dye

Otgontsetseg Batsaikhan, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-44

Microplastic Detection Using an AIE-Active Fluorescent Staining Probe

Seoyeon Kim, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-45

Selective Fluorescent Staining for Polyacrylonitrile Microplastics in Aqueous Media

Yeji Choi, Cheal Kim*

Department of Fine Chemistry, Seoul National University of Science & Technology, Korea

POLY.P-46

Synthesis of Stable and High Photoluminescence of Water-Soluble InP Red Quantum Dots

Duytung Dao, Kyu Yun Chai¹, *

Business Development Division, ODTECH, Korea

¹*Department of Chemistry, Wonkwang University, Korea*

POLY.P-47

Development of Glycol Chitosan-Based Antifouling Coating to Prevent Bacterial and Platelet Adhesion on Medical Implants

Sunhee Kim, Joon Sig Choi¹, *

Kang Moo Huh², *, Woo Kyung Cho*

Department of Chemistry, Chungnam National University, Korea

¹*Department of Biochemistry, Chungnam*

National University, Korea

²*Department of Organic Materials Engineering, Chungnam National University, Korea*

POLY.P-48

Eumelanin-Inspired Antifouling Surface Coatings using Amine-Terminated N-oxide Compounds

Jongseok Park, Woo Kyung Cho*

Department of Chemistry, Chungnam National University, Korea

POLY.P-49

Development of Bioinspired N-oxide Polymer Brushes for Advanced Antifouling Applications

Jeongbin Oh, Woo Kyung Cho*

Department of Chemistry, Chungnam National University, Korea

POLY.P-50

Oral Chitosan-Nanoparticle-Based DNA Vaccine Delivery Platform for Aquaculture

Ji-Hyun Cha, Namdoo Kim*, Longhai Piao*

Department of Chemistry, Kongju National University, Korea

IND.P-1

Mechanically Molded Herringbone Mixer for Enhanced Mixing in Continuous Flow Reactors

Geon Shin, Chan Pil Park*

Graduate School of Analytical Science and Technology, Chungnam National University, Korea

IND.P-2

Evaluating Isorecticular Series of CALF-20 for Biogas Upgrading Using a Pressure/Vacuum Swing Adsorption (PVSA) Process

Changdon Shin, Yongchul Chung^{1, *}

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IND.P-3

Utilization of Regenerated Polyol Based on Low-Energy Consumption Polyurethane Depolymerization

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IND.P-4

Dual Actions of atRA in Cancer and Thrombosis: Uncovering Therapeutic Potentials across Two Distinct Pathological Environments

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IND.P-5

Self-Assembling Cinnamaldehyde-Based Polymeric Micelles for ROS-Mediated Anticancer Therapy

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Design and Development of Conductive Plastic Electrodes for Water Electrolysis

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INOR.P-51 Chemical Crystallography at PLS-II: Capabilities of the BL2D-SMC Beamline

Dae-Woong Kim, Dongwon Kim, Dohyun Moon*
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INOR.P-52 Electrochemical Recognition of Lactic Acid Enantiomers Using Chiral Pd₄L₈ Coordination Cages

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INOR.P-53 Defect Engineering in a Metal–Organic Framework to Induce Gate-Opening for Enhanced Adsorption Performance

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INOR.P-54 Distinct Aggregation Behavior of *N*-Terminally Truncated Aβ₄₋₄₂ over Aβ₁₋₄₂ in the Presence of Zn(II)

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INOR.P-55 Cobalt Complexes as Modulators against Amyloid-β Aggregation

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INOR.P-56 Cyclotrimerization of Alkynes Catalyzed by Bimetallic Iron Complexes with a Urea-Bridged Tetradentate [NNNN] Ligand

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INOR.P-57 Superprotonic Conductivity via Dynamic Hydrogen Bonding in Mixed-Matrix Membrane Based Hydrogen-Bonded Organic Framework

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INOR.P-58 Coordinated Water Modulation for Proton Conductivity via Post-Synthetic Transmetalation in Yttrium-Based Coordination Polymer

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INOR.P-59 Cationic Pd(II)-Catalyzed Dehydrogenation of Metal Borohydrides and Crown Ether Complexes in Organic Solvents: Kinetic Study and Characterization of Spent Fuels

Myung Jae Lee, Sangheon Jeong, Min-Jong Bong, Seung Hwan Cha, Ho-Jin Son*
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INOR.P-60 Visible-Light-Driven Hydrogen and Value-Added Product Generation by Phosphonic Acid-Functionalized Ir(III) Photosensitizers on TiO₂-Pt

Sangheon Jeong, Myung Jae Lee, Min-Jong Bong, Seung Hwan Cha, Ho-Jin Son*
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INOR.P-61 Impact of Anchoring Groups in Organometallic Iridium(III) Sensitizers on the Photocatalytic

Performance of Dye-Sensitized TiO₂ Catalysts

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INOR.P-62

Highly Variable Nickel-Bismuth Interactions in Pincer-Type Nickel Complexes Facilitating Reversible CO Binding

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INOR.P-63

Electron Transfer for C–H Activation through Methane Monooxygenase Reductase

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INOR.P-64

Transcriptional Regulation of Metalloproteins through Protein-Protein Interaction

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INOR.P-65

ZBTB20 and its Regulatory Roles in Hepatocarcinogenesis

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INOR.P-66

Controlling Gene Expression through Zinc Fingers and its DNA-Binding Partners

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INOR.P-67

Chirality Transfer in Pd(II) and Pt(II)-Based Supramolecular Assemblies

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INOR.P-68

Solvatochromic Zn(II) Metallacycles

Sumi Lee, Jacopo Tessarolo*

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Synthesis and Characterizations of Switchable Betadiketonate Hydrazone Complexes

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Anion-Driven Structural Conversions in Zn(II)-Based Coordination Compounds

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Stable Radical Ion Pairs: From Synthetic Strategies to Qubit Material Applications

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INOR.P-72

Synthesis of Aminyl Radical Stabilized by N-Heterocyclic Carbene

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INOR.P-73

Hydrogenolysis of Furfural to 1,2-Pentanediol over Various Metal Oxide Based Heterogeneous Catalyst

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Advanced Methyl Formate Production through CO₂ Hydrogenation Using Ru-Based Heterogeneous Catalyst

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INOR.P-75

Revealing Dynamic Weak Coordination Bonding of Halocarbons and Its Role for Activation of Metal–Organic Frameworks

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INOR.P-76

Revolutionizing Atmospheric Water Harvesting: Microwave-Driven Activation of MOF with Open Metal Sites and Superior Hydrolytic Stability

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INOR.P-77

Conversion of 3-Hydroxypropionic Acid to 3-Amino-1-Propanol Using a Ru Hydrogenation Catalyst

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INOR.P-78

Dimension-Controlled Manganese(II) Metal–Organic Frameworks Depending on Functional Group

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INOR.P-79

Conductivity Enhancement and Mechanistic Insight in Polymer-Integrated HKUST-1 Metal–Organic Frameworks

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INOR.P-80

Synthesis and Structural Characterization of Isostructural Two-Dimensional Co(II) Metal–Organic Frameworks under Different Solvent Conditions

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INOR.P-81

Catalytic PtTe/RuTe₂ Heterostructure for Effective Alkaline Hydrogen Evolution Reaction

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INOR.P-82

Synthesis of Supramolecular and Metal–Organic Architectures from Dipyriddy-Based Ligands

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INOR.P-83

Selective Formation of Heterometallic Ru–Ag Supramolecules via Stoichiometric and Ligand-Mode Control

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INOR.P-84

Kubas-Interaction-Driven Hydrogen Isotope Separation above 111 K Using Organometallic Complex–Mesoporous Carbon Hybrids

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Structure and Properties of Metallosupramolecular Complexes Based on a Dipyriddy Functionalized Pillar[5]arene

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INOR.P-86

Morphological and Structural Modification of Nanorods *via* Selenium Anion Exchange Reaction

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Korea*

INOR.P-87

Temperature-Controlled Structural Evolution of HKUST-1 for Enhanced CO₂ Electroreduction Performance

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INOR.P-88

Mesophase-Induced Vitrification in Coordination Polymers via Aliphatic Chain Dynamics

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INOR.P-89

Synthesis and Catalytic Application of Transition Metal Complexes for Heterotactic Poly(lactic acid) Polymerization

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INOR.P-90

Unified Amine System for Efficient CO₂-to-Formic Acid Production via Integrated Reaction and Separation

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INOR.P-91

Synthesis, Biological Characterization, and Activity Evaluation of Furan-Containing Schiff Base Transition Metal Complexes

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INOR.P-92

Reversible Guest-Responsive 2D Phosphate with Proton-Conducting and Optical Multifunctionality

Yejin Heo, Kang Min Ok*

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INOR.P-93

A New Series of Bismuth Oxyfluorides: Aliovalent Substitution and Oxidation State Control for Structural Transformation

Chanhee Ko, Kang Min Ok*

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INOR.P-94

Ultraviolet Oxyfluoroniobate Featuring Fully Activated Polar Chains with Giant Optical Nonlinearity and High Laser Damage Threshold

Congcong Jin, Kang Min Ok*

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Synthesis, Structure, and Properties of Chiral Noncentrosymmetric Zn(II) Complexes

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Novel One-Dimensional Hybrid Ferroelectric: Synthesis, Crystal Structure, and Characterization

Bo Young Kim, Kang Min Ok*

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INOR.P-97

CsICl₂: An Inorganic Birefringent Crystal with Record Birefringence and Ultra-Wide Infrared Transparency

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Tellurite-Fluoride Materials Combining Ultraviolet Birefringence and High Thermal Stability

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Cationic Dimerization Enables UV Birefringence Enhancement in All-Organic Crystals

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Synthesis, Crystal Structures, and Structural Transformation of Zn-Based Homochiral Coordination Polymers Via UV-Induced [2+2] Cycloaddition Reactions

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- INOR.P-101** Green Synthesis of Gold Nanoparticles Using Eco-Friendly Solvent for Photothermal Therapy
Soomin Yi, Hongje Jang*
Department of Chemistry, Kwangwoon University, Korea
- INOR.P-102** Atomically Dispersed Ru Nanozymes Enabled by a Dynamic Liquid Gallium Matrix with Enhanced Peroxidase-Like Activity
Ryanghyun Kim, Hongje Jang*
Department of Chemistry, Kwangwoon University, Korea
- INOR.P-103** Tellurium-Nanorod-Templated Engineering of Ru-Based Nanostructures for Enhanced Peroxidase-Like Catalysis
Hongju Ra, Hongje Jang*
Department of Chemistry, Kwangwoon University, Korea
- INOR.P-104** Gallium-Iridium Nanozymes Synthesized via a Sonochemical Process for Cancer Therapy.
Youbin Heo, Hongje Jang*
Department of Chemistry, Kwangwoon University, Korea
- INOR.P-105** Biomimetic Metal Complex Controlling ROS in Colon Cancer Cells: Exploring SOD-Mimicking Reactivity for Novel Therapeutic Agents
Yougang Kim, Hyungbin Park, Chaewon An, Yijin Kim, Hyewon Lee, Seungwoo Hong*
Department of Chemistry & Nanoscience, Ewha Womans University, Korea
- INOR.P-106** Cu(II) Coordination in an Islet Peptide Hormone and Its Implications for Metal Ion Dyshomeostasis in Diabetes
Yonghwan Pi, Jiyeon Han*
Department of Applied Chemistry, University of Seoul, Korea
- INOR.P-107** Controlled Self-Assembly of Au Nanoparticles with PS/P4VP Heterogeneous Ligand System
Galim Baek, Hongseok Yun*
Department of Chemistry, Hanyang University, Korea
- INOR.P-108** The Determination of the P-H Bond Dissociation Free Energy in a Triarylphosphonium Compound and Its Application to Hydrogen Atom Transfer
Yunmi Sohng, Sangmin Kim*
Department of Chemistry, Yonsei University, Korea
- INOR.P-109** Harnessing Copper Complex as A SOD Mimicking Model for Challenging Triple-Negative Breast Cancer: Disrupting Redox Balance
Chaewon An, Hyungbin Park, Yougang Kim, Hyewon Lee, Yijin Kim, Seungwoo Hong*
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- INOR.P-110** Intramolecular Halogen Stabilization of Hydrogen-Substituted Silylium Ions
Chanhyeong Jo, Sangmin Kim*
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- INOR.P-111** Anion Exchange Synthesis of Hollow Ir-Ni₂P_{1-x}S_x Boosts Oxygen Evolution in Acidic Media
Subeen Lee, Kwangyeol Lee*
Department of Chemistry, Korea University, Korea
- INOR.P-112** Pd-Based Metal Organic Cages with Curcuminoid Ligands
Gaheun Lee, Jacopo Tessarolo*
Department of Chemistry, Chonnam National University, Korea
- INOR.P-113** Length-Dependent Secondary Coordination Ligand Effects in Mn(II) Bipyridyl Complexes for Photocatalytic CO₂ Reduction
Min-Jong Bong, Seung Hwan Cha, Myung Jae Lee, Sangheon Jeong, Ho-Jin Son*
Department of Advanced Materials Chemistry, Korea University, Korea
- INOR.P-114** Formation of Supramolecular Coordination Polymers of Pseudo[1]catenane-Type Pillar[5]arene Exhibiting in/out-Conformational Inversions
Hyeonji Jang, Seohyeon Yun, Eunji Lee^{1, *}
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- INOR.P-115** Synthesis and Electrochemical Performance with Mechanistic Analysis of Zn₂GeO₄ Encapsulated

in Porous Carbon Spheres via Carbonization for LIB Anodes

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INOR.P-116 Synthesis of Distorted Phosphorus Compounds and their Reactivity towards THF Polymerization
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INOR.P-117 Efficiency Enhancement of Sub-5 μm InGaN/GaN Micro-LEDs via DC Bias-Controlled Dry Etching and TMAH-Surface Treatment
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INOR.P-118 A Supramolecular Spin on a Werner Complex: Ligand-Directed Assembly of Chiral Trinuclear Complexes
Kyungwhan Min, Dongwhan Lee*

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INOR.P-119 Improved Vertical Assembly of Dot-LEDs via N-(carboxymethyl)-N-(11-mercaptoundecyl)glycine SAMs and Zinc Metal Complexes
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INOR.P-120 Cuboidal Metal–Organic Polyhedra from Hyperbolic Paraboloidal Ligands
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INOR.P-121 Synthesis and Electrochemical Properties of MnO@rGO for Aqueous Zinc-ion Battery Cathodes: Analysis of Improved Capacity and Kinetics

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INOR.P-122 Synergistic FeS₂@Reduced Graphene Oxide Composite for High-Performance Lithium-Ion Battery Anode
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INOR.P-123 A Stable and Reactive MOF Catalyst for CO₂ Conversion in CCUS
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INOR.P-124 Effect of Ligands with Various Functional Groups on the Efficiency of Homobimetallic Catalysts in Carbon Dioxide Conversion
Ho Jun Lee, Jungseok Heo*

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INOR.P-125 Metal Organic Frameworks (MOFs) Colorimetric Sensor for Food Spoilage
Dongmin Kim, Jungseok Heo*

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INOR.P-126 Enhanced EPOTF Process Using PVDF-Coated Silicon Nitride Nanofilters for High-Yield and High-Purity Exosome Isolation
Heejin Jung, Minji Ko, Young Rag Do*

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INOR.P-127 Sub-Micrometer GaN Dot LEDs via PHPS-Based Nanoimprint Lithography

Taeyoung Lee, Seong Ho Park, Young Rag Do*
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INOR.P-128 Guest-Length-Dependent Formations of 1D → 2D and 2D → 3D Metal–Organic Polyrotaxane Frameworks

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INOR.P-129 Structural Dynamics and Ionic Conductivity of Silver Iodide Encapsulated within a Ti-Based Two-Dimensional Metal–Organic Framework

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INOR.P-130 Synthesis of Ambiphilic Low-Valent Indium Compounds Using Fluid-Based Ligands

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INOR.P-131 Biomimetic ROS-Generating Model Complex Synergizes with Chemotherapy to Overcome Drug-Resistant and Metastatic Gastric Cancer

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INOR.P-132 Design Strategies for Vitrification in Rare-Earth Carboxylate-Based Metal–Organic Frameworks

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INOR.P-133 Membrane-Permeable Ligand Design in Metal Complexes: Approaches for Bone-Targeted Osteosarcoma Therapy

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INOR.P-134 Kinetic Control in the Formation of Photocatalytic Active ZnTPyP Nanorods through Micelle Self-Assembly

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INOR.P-135 Regioisomeric *o*-Carborane-Decorated Diboron-Based Multi-Resonance TADF Compounds and Their Photophysical Properties

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INOR.P-136 Interrelationships between Metal Ions and Matrix Metalloproteinases-2/9 in Cancer Cells

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INOR.P-137 Interactions between LDH-A and Amino Acids

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INOR.P-138 Cobalt–Organic Coordination Polymer as a Platform for Proton–Electron Transport and Neuromorphic Devices

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INOR.P-139 Mechanochemically Induced Metal–Organic Frameworks Glass

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INOR.P-140 Cobalt Coordination Compound for Neuromorphic and Resistive Switching

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INOR.P-141 Synthesis and Structural Diversity of Iron(III)-Oxo Clusters Formed from Pyrazolyl Phenol Ligands
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INOR.P-142 A Quantum Chemical Study into the Reaction Pathways of Silacyclopropane Rings with Methanol: Ring Opening vs. Substitution
Hyoin Ahn, Kyoung-Koo Baek*
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INOR.P-143 A Quantum Chemical Study on the Reaction Pathways of Hydrido Metal(II) Azide Complexes with Organic Isocyanides and their Cis-Trans Isomerization
Seungjun Choi, Kyoung-Koo Baek*
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INOR.P-144 Amino Acids Conjugate: Strengthen Strategies for Suppressing Colorectal Cancer Cell Proliferation of Metal Complexes
Yijin Kim, Hyungbin Park, Chaewon An, Yougang Kim, Hyewon Lee, Seungwoo Hong*
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INOR.P-145 Photophysical Properties and FRET of Polycyclic Aromatic Dyes on Coordination Cage Crystal Surfaces
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INOR.P-146 Transition-Metal-Assisted Cation-Exchange Synthesis of SnSe@N-Doped Graphitic Carbon for High-Performance Potassium-Ion Anodes
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INOR.P-147 Improved Electrochemical Properties of One-Dimensional Sb₂Se₃/VGCF@NC Nanostructures in Potassium-Ion Batteries

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INOR.P-148 Moisture-Resistant Amine-Functionalized MOF@PVDF Composites for Indoor CO₂ Capture
Nayoung Lee, Chang Seop Hong*
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INOR.P-149 Local and Interfacial Structure Design of Au-TiO₂ Nanocomposites for Versatile Applications
Jeongwook Bae, Joohyun Lim*
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INOR.P-150 Behavior of Gas Molecules in Porous Coordination Polymers (PCPs)
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INOR.P-151 Design of Cadmium Sulfide Nanoplatelets Deposited with Metal Cocatalyst and Their Photocatalytic Reaction
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INOR.P-152 Ammonia-Driven Morphological Control of Fe-Glycolate Nanostructures and Their Magnetic Behavior
Soohyun Kwon, Joohyun Lim*
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INOR.P-153 Photoluminescent Two-Coordinate Gold Complexes with Abnormal N-Heterocyclic Carbenes
Seung Beom Cheon, Youngmin You*
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INOR.P-154 Morphology-Controlled Wrinkled Zn-Catalysts via NaCl Microcrystals for Efficient

Poly(caprolactone) Synthesis

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INOR.P-155 Shape Controlled Nickel Nanoplates as Efficient and Durable Oxygen Evolution Reaction Catalysts in Anion Exchange Membrane Water Electrolyzers

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INOR.P-156 Dynamic Restructuring of a Ru@RuC Catalyst with a Protective Carbon Shell for Stable Alkaline Hydrogen Evolution

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INOR.P-157 Pd₄S Nanoparticles on Sulfur-Rich Hollow Carbons: Highly Selective Catalysts for Alkyne Semi-Hydrogenation

Yoon Kee Kim, Seung Uk Son*

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INOR.P-158 Sulfur-Vulcanized Hexagonal Conjugated Microporous Polymers toward Enhanced Triboelectric Energy Harvesting

Yerim Namgung, Seung Uk Son*

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INOR.P-159 MnO Nanoparticles Confined in Carbon Tubes: Stable Catalysts for Biomass-Derived Polymer Precursors

Yeon Seo Kong, Seung Uk Son*

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INOR.P-160 Counterion Effects on Metallophilic Interactions: Au–Au, Ag–Ag, and Au–Ag in [AuAgAuAg] Rhombs

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INOR.P-161 Gold Nanoparticles on Hexagonal CeO₂ Nanoplates for Selective Oxidation of 1,3-Propanediol under Ambient Conditions

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INOR.P-162 Synthesis of Pd(II)-Based Complex Using PdCl₄²⁻ and 2-(1H-1,2,3-Triazol-5-yl)phenol

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INOR.P-163 Synergetic Co-Substitution Effects in the Zintl Phase Ca_{9-x}A_xZn_{4.5-y}Cd_ySb₉ (A = Sr, Yb, Eu) System for Enhanced Thermoelectr

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INOR.P-164 Synergistic Cation Substitution and *p*-Doping Effects in Ca_{9-x}Sr_xZnCa_{9-y}Ag_ySb₉: A Machine Learning Approach

Si Youn Kim, Tae-Soo You*

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INOR.P-165 Data-Driven Exploration of the Zintl Mg_{3.2}Sb_{1.5}Bi_{0.5} Composition Space for High-Performance N-Type Thermoelectrics

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INOR.P-166 Effect of Cation Doping on the Electronic Structure and Thermoelectric Properties of the Sr_{11-x}Ba_xCd₆Sb₁₂ System

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INOR.P-167 Experimental and Theoretical Studies for the Zintl Phase Thermoelectric Ca_{3-x}Eu_xAlSb₃ System

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In Situ Plasmonic SERS Analysis of Polyethylene Microplastic Photodegradation Kinetics and Mechanism

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Dual Band Luminescence of Au Nanoclusters

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Chemoexcited Formation and Radiationless Decay Dynamics of Firefly Chromophore

Maryam Farmani, Cheol Ho Choi*

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Sungjun Kwak, Dae Hong Jeong*

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Optimizing Surface Chemistry for Stable LSPR Responses in Gold Nanoparticle-Functionalized Fiber Probes

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Temperature-Varying Salt Solubility in Aqueous Electrolyte Solutions : Graph Theoretical Analysis and Chemical Potential Approach

Jonghyuk Ryu, Lykoun Tun, Jun-Ho Choi*

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Differential Effects of Cholesterol on SLE2S Micelle Association with DMPC and Cer240 Lipid Bilayers

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Investigating Chiral Induction Pathways in Gold Nanostructures Driven by L-Cysteine Derivatives

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Magnetically Recoverable CdS/Fe₃O₄ Heterostructures for Efficient Visible-Light Biomass Oxidation

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Effects of Sequence-Dependent Stiffness of DNA on Packaging and Ejection Dynamics in Viral Capsid

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PHYS.P-19 Analysis of the Lithium-Ion Transport Mechanism of Crystalline and Amorphous Lithium Thiophosphate Solid-State Electrolytes via Machine Learning Potentials
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Department of Chemistry, Sogang University, Korea

PHYS.P-20 Advancing Two-Photon-Induced Fluorescence through Linker-Engineered Non-Covalent Carbazole-Based Charge-Transfer Complexes
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PHYS.P-21 Machine Learning-Based Prediction of Solubility in Pure and Mixed Solvent Systems across Temperatures
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PHYS.P-22 Predicting the Refractive Index of Multi-Component Mixtures Using a Graph-Based Machine Learning Model
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PHYS.P-23 C₂, N₄ Coordinated CoRu Dimer for N-Selective Urea Electrosynthesis from Co-Reduction of CO₂ and Nitrate
Akash Prabhu Sundar Rajan, Myong Yong Choi*
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PHYS.P-24 CO₂ Laser-Fabricated 2D Ru/RuO₂ Nanosheets for Efficient Bifunctional Electrocatalyst for Hydrazine-Assisted Hydrogen Production
Sieon Jung, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-25 Application of CO₂ Laser-Synthesized Single-Atom Ru-Doped Cubic Co₃O₄ to Ethylene Glycol Oxidation and Nitrate Reduction Reactions
Jangyun Kim, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-26 CO₂ Laser-Irradiation Mediated NiMo Dual-Atom Dimer on Pd Nanosheets for PET Plastic Upcycling
Seong Bo Lee, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-27 Pulsed Laser-Synthesized CoNiCuPdPt High-Entropy Alloy for Coupled Nitrate Reduction-Formaldehyde Oxidation toward Ammonia and Formate Production
Wonji Go, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-28 Synergistic Enhancement of Hydrazine-Assisted Water Splitting Using Co-Modified Ru/RuPx Electrocatalysts Derived from Laser Processing
Soohan Yun, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-29 Synergistic Nitrate-to-Ammonia Conversion and Zinc-Nitrate Battery Performance Using Laser-Structured Pd/Cu Electrocatalyst
Sharanya Kannan Anbarasu, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-30 Quantitative Evaluation of Interfacial Charge Transport Efficiency in Alternative Electron Transport Layer Materials to Overcome the Limitations of Conventional C₆₀-Based Layers
Jinkyong Yoon, Hyunji Ryu, Yeon-Ji Shin, Eun-Hye Lim, Yunho Ahn, Won-Suk Kim, Jaehong Park*

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Womans University, Korea

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Achieving DFT-Level Accuracy in Molecular
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University, Korea

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Spectroscopic Charge Species Mapping Coupled
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Microwave Cavity Perturbation Technique

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PHYS.P-33

Application of Lead Oxide Nanoparticles in X-
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Studies

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University, Korea

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Synthesis and Characterization of Carbon-
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High-Brightness Ultrasmall Ln₂O₃ (Ln = Eu, Tb,
Dy) Nanoparticle Colloids Synthesized via Light-
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University, Korea

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Synthesis of Ultrasmall Lanthanide Oxide (Ln =
Eu, Gd, and Tb) Nanoparticles via Thermal
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Polyol Synthesis and Surface Modification of
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Analysis of Spin Exchange Interactions and Spin-
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Kwon*

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Rapid Synthesis of High-Entropy Oxide Layer on
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Reaction

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University, Korea

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Ultrafast CO₂-Laser Synthesis of High-Entropy
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Sang-Gyeong Lee, Juhyeon Park, Myong Yong
Choi*

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University, Korea

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Rapid CO₂ Laser Assisted of Single-Atom
Catalysts on MBene for Efficient Electrochemical
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University, Korea

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Electrochemical C–N Coupling Using Formic
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University, Korea

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Local Environment-Aware Prediction of Catalytic
Activity for the Hydrogen Evolution Reaction in
Alloy Nanoparticles via Machine Learning
Interatomic Potentials

- Hung Manh Ngo**, Sang Uck Lee*
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- PHYS.P-45** Super-Resolution Reconstruction from Low-Resolution Images Beyond Optical Limits
Soo-Eun Lee, Doory Kim*
Department of Chemistry, Hanyang University, Korea
- PHYS.P-46** Tunable B-Doped Cobalt Phosphide Nanosheets Engineered via Phosphorus Activation of Co-MOFs for High Efficiency Alkaline Water-Splitting
Jun Ho Seok, Ji-Soo Byun, Sang Uck Lee*
School of Chemical Engineering, Sungkyunkwan University, Korea
- PHYS.P-47** Strategic Ligand-Induced Electronic Structure Modulation for Enhanced Nitrogen Reduction Reaction Selectivity in Transition Metal Phthalocyanines
Jae Hun Seol, Sang Uck Lee*
School of Chemical Engineering, Sungkyunkwan University, Korea
- PHYS.P-48** Towards Accurate Determination of Binding Free Energy Using Molecular Dynamics Simulations
Taeseung Lee, Jeong-Mo Choi*
Department of Chemistry, Pusan National University, Korea
- PHYS.P-49** Comparative Study on the Anticancer Efficacy of Free Resveratrol and Resveratrol-Containing PLGA Nanoparticles
Hyunsoo Seo, Namdoo Kim*
Department of Chemistry, Kongju National University, Korea
- PHYS.P-50** Application of AI-Based Structure Prediction in Exploring Molecular Mechanism of Protein Condensation
Taehwan Kim, Jeong-Mo Choi*
Department of Chemistry, Pusan National University, Korea
- PHYS.P-51** Excited-State Proton Transfer Dynamics of a Cationic Super-Photoacid in Neat Aliphatic Alcohol
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Department of Chemistry, UNIST, Korea
- PHYS.P-52** Regulation of MMP-9 Expression Levels by Resveratrol-Containing PLGA Nanoparticles
Hyejin Yoo, Namdoo Kim*
Department of Chemistry, Kongju National University, Korea
- PHYS.P-53** SERS Analysis of Shikonin and Tannic Acid Dye by Metal-Coordinated Tethering
Sejin Kim, Eunhee Seo, Dae Hong Jeong*
Department of Chemistry Education, Seoul National University, Korea
- PHYS.P-54** Photocatalytic Activation of Dealuminated Zeolite Through in Situ Formation of Defective Graphene
Yebin Choi, Young Dok Kim*
Department of Chemistry, Sungkyunkwan University, Korea
- PHYS.P-55** Influence of Precursor Anions on Surface Species Formation and Low-Temperature NH₃-SCO over CuO_x/Al₂O₃ Catalysts
Yujing Ji, Young Dok Kim*
Department of Chemistry, Sungkyunkwan University, Korea
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Shufang Zhao, Young Dok Kim*
Department of Chemistry, Sungkyunkwan University, Korea
- PHYS.P-57** Inhibition of MMP-9 Expression and *In vitro* Activity by Polydatin
Minji Son, Namdoo Kim*
Department of Chemistry, Kongju National University, Korea
- PHYS.P-58** Exciton and Charge Dynamics in a Y6 Derivative Controlled by Molecular Symmetry
Ka Young Cho, Jaehong Park*
Department of Chemistry & Nanoscience, Ewha Womans University, Korea
- PHYS.P-59** Development of a Material-Specific Super-Resolution Nano-Imaging Method for Semiconductor Inspection and Metrology
Udon Jeong, Doory Kim*

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Analysis of Scaffold–Client Interaction Networks in Biomolecular Condensates

Minseo Kim, Jeong-Mo Choi*
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Mechanistic Insights into Electrochemical CO₂ Reduction on the Ag(111) and Ag₂O(111) Surfaces: A DFT Approach

Chae-Hyeon Lee, Hee-Joon Chun*
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Inhibition of MMP-9 Expression and in Vitro Activity by Resveratrone

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Grain-Boundary Engineering of Bismuth Catalyst Enables Industrial-Current-Density CO₂ Electroreduction to Formate via Stabilizing *OCHO Intermediate

Jichuang Wu, Young Dok Kim*
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The Trend in the Promotional Impact of Alkali Metal on Cu–Co Catalysts for C₂₊ Alcohol Synthesis During CO₂ Hydrogenation: A DFT Approach

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Multiscale Evaluation of Metal Organic Frameworks (MOFs) for Adsorption Based Xenon and Kr Separation from Air

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NuriKit: A New Framework for Enhancing Cheminformatics Workflows

Nuri Jung, Chaok Seok*
Department of Chemistry, Seoul National University, Korea

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Tuning of Emission Properties of Luminol-Linked ZIF-90 Revealed by Two-Dimensional Photoluminescence Spectroscopy

Wonwoo Shin, Jaehoon Jeong, Dong Won Kang, Jeongho Kim*
Department of Chemistry, Inha University, Korea

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Solvent-Dependent Dynamics of Intramolecular Electron Transfer in π -Conjugated Ir(III)-Re(I) Photocatalysts

Yunsu Kim, Taesoo Kim, Soohwan Kim, Daehan Lee, Ho-Jin Son, Jae Yoon Shin*
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A Molecular Dynamics Simulation Study on the Selective Recognition of Vanillin by Human Olfactory Receptor 1L3

Eun Cheol Kim, Younjoon Jung*
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Ga-Eun Go, Uidon Jeong*, Doory Kim*
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Highly Selective CO₂-to-Formate Conversion via Pulsed-Laser-Tuned Cu-Doped δ -Bi₂O₃ Nanostructures

Chae Eun Park, Myong Yong Choi*
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Laser-Induced Entropy Engineered High-Entropy Metal Sulfide Inks for Robust and Flexible Hybrid Supercapacitors

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PHYS.P-74 Pulsed Laser-Modulated Defect sites in Ir Doped MoC@N-Doped Carbon Hydrogen Production
Ramar Govindasamy, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-75 Thermal-Shock-Engineered RuO₂/NiO Composite Electrocatalyst via CO₂ Laser Irradiation for Urea-Assisted Water Splitting
Kadharbatha Vajithmeeran, Myong Yong Choi*
Department of Chemistry, Gyeongsang National University, Korea

PHYS.P-76 Synthesis and Characterizations of Nickel Selenide Using Pulsed Laser Irradiation in Liquids
Rajiv Bharadwaj Nivarthi, Myong Yong Choi*
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Siran Kim, Taewoong Lee, Daehwan Cho, Seung Jun Lee*
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PHYS.P-78 Bi-Functional Fe/ZSM-5 Catalyst with Low-Temperature Hydrophobic Toluene Adsorption and High-Temperature Oxidation Activity
Yulan Li, Young Dok Kim*
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Chaeyeong Gwon, Namdoo Kim*
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Seoyun Jung, Namdoo Kim*
Department of Chemistry, Kongju National University, Korea

PHYS.P-81 Room Temperature Ionic Liquids in Ion Gels: Liquid Dynamics Probed by Dynamic Stokes

Shifts of a Coumarin Dye

Soohwan Kim, Taesoo Kim, Jae Yoon Shin*
Department of Advanced Materials Chemistry, Korea University, Korea

PHYS.P-82 Resolving Phase Transition in VO₂ Nanoparticles Using Energy-Filtered Ultrafast Electron Diffraction
Seok-Hyeon Lee, Oh-Hoon Kwon*
Department of Chemistry, UNIST, Korea

PHYS.P-83 Study on the Role of Polydatin in the Activity and Expression of MMP-2
Leejueun Park, Namdoo Kim*
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PHYS.P-84 Probing the Deeply Supercooled Water Microdroplet with Optical Raman Spectroscopy
Sang-Gyun Noh, Kyung Hwan Kim*
Department of Chemistry, POSTECH, Korea

PHYS.P-85 Ångström-Femtosecond Ultrafast Electron Microscopy for the Direct Visualization of Lattice-Resolved Structural Dynamics in Plasmonic Nanoparticles
Ye-Jin Choi, Oh-Hoon Kwon*
Department of Chemistry, UNIST, Korea

PHYS.P-86 Effect of Co-Catalyst Phase on Charge Transfer Activation Energy in α -Fe₂O₃-Based Photoanodes for PEC Water Oxidation.
Seong Kyu Jang, Woon Yong Sohn*
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PHYS.P-87 Electrochemical and Spectroscopic Elucidation of Enhanced Photoelectrochemical Water Splitting Performance of BiVO₄ Grown on FTO Compared to ITO Substrates
Yeon-Gyo Shim, Woon Yong Sohn*
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Seung Hyeon Jeong, Woon Yong Sohn*
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How Boron Substitution Alters Photochemical Pathways in Benzene-Like Heterocycles: A Theoretical Study

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Actin-Induced Intervesicular Lipid Nanotube Connections, Triggered by Mg²⁺: Minimal *in Vitro* Model for Tunneling Nanotubes

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Exploring Multiple Methods to Enhance the Photoisomerization of Norbornadiene to Quadricyclane

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Development of a Polycapillary Hard X-ray Spectrometer for High Sensitivity PFY-XAS at PAL-XFEL

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Mechanistic Insights into RNA-Cleaving DNAzymes using Single-Molecule FRET

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Cation Effects on the Molecular Dynamics of Alkali Acetate Electrolytes via Many-Body Expansion Machine-Learning Approach

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Multiscale Modeling of Nonideality Effects on Electrochemical CO₂ Reduction on Gold

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Systematic Study on WS₂ Growth by Chemical Vapor Deposition Assisted with Alkali Metal

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Ab Initio Prediction of Cu Nanoparticle Evolution under Electrochemical CO₂ Reduction Conditions

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Reliable CO₂R Kinetic Models via Global Sensitivity Analysis and Bayesian Optimization

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PHYS.P-101 Designing Molecules with Target Decomposition Temperatures Using QSPR and Generative Models
Yonghan Lee, Dong Ryeol Shin, Sung Kwang Lee*
Department of Chemistry, Hannam University, Korea

PHYS.P-102 Gas Phase Exciton Coupling Observed in Jet-Cooled (1S,2S)-Amino Diphenylethanol
Jiyeon Yun, Ye Yeon Kim, Nam Joon Kim*
Department of Chemistry, Chungbuk National University, Korea

PHYS.P-103 Boosting Electrical Conductivity of TiO₂ Microrods Through Antimony-Doped Tin Oxide Coating
Young Seok Son, Amol Uttam Pawar, Young Soo Kang*
Department of Environmental and Climate Technology, Korea Institute of Energy Technology, Korea

PHYS.P-104 Photosensitization Dynamics of π -Linked Ir(III)-Re(I) Complexes Using Time-Resolved Spectroscopy: Excited State Lifetimes and Inactivity in CO₂ Conversion
Taesoo Kim, Soohwan Kim, Yunsu Kim, Jae Yoon Shin*
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PHYS.P-105 Electrodeposited Ag–Cu Bimetallic Catalysts for CO₂Electroreduction
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PHYS.P-106 Self-Diffusion of Polymer Chains in Entangled Polymer Networks: Effects of Chain Conformation
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PHYS.P-107 Shape-Dependent Diffusion Dynamics of Nanoparticles in an Entangled Polymer Network
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PHYS.P-108 Tuning Exciton and Charge Carrier Dynamics in Photo-Excited Low-Dimensional Perovskites via Ligand and Dimensionality Engineering
Yunho Ahn, Jaehong Park*
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PHYS.P-109 Excitonic Fano Scattering Behaviors of Carbon Nanotubes from Interference with Dispersant
Seojin Baek, Sang-Yong Ju*
Department of Chemistry, Yonsei University, Korea

PHYS.P-110 Ultrafast Structural Responses of Water to Femtosecond Laser Excitation Revealed by Time-Resolved X-ray Solution Scattering
Seoyoung Lee, Kyung Hwan Kim*
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PHYS.P-111 Resolving the Global Minimum Structure of the RuSi₄[−] Cluster
Ingyeong Kim, Joonghan Kim*
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PHYS.P-112 Tracking Carbon-Halogen Bond Cleavage Dynamics in a Dimeric Gold Photocatalyst via Time-Resolved X-ray Solution Scattering
Soohyun Kim, Kyung Hwan Kim
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PHYS.P-113 Mechanistic Investigation of Dual C–C Bond Formation at a Carbene Center
Yurim Jin, Joonghan Kim*
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PHYS.P-114 Benchmark Study of DFT Methods for Methanol Clusters (CH₃OH)_n (n = 2–6)
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PHYS.P-115 Liquid Water Energy Delocalization Revealed by
Ultrafast X-ray Scattering

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PHYS.P-116 In-Situ Growth of NiFe-PBA Nanocubes@PANI-
Grafted MXene as a High-Performance Cathode
Material for Zn-Ion Batteries

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PHYS.P-117 Surface Control of Functionalized MXene
through Ligand Exchange from Non-Covalent to
Covalent

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PHYS.P-118 Investigation of Enhanced Electrochemical
Performance Characteristics Using High Surface
Area and Stable Ni(OH)₂@MgSiO₃ Electrode
Material

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PHYS.P-119 Single-Particle Diffusion Analysis Reveals
Heterogeneous Dynamics of DNA Molecules on
Supported Lipid Bilayer

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PHYS.P-120 Binder-Free Silicon Anodes Enabled by Surface
Modified MXene for High Energy Density
Lithium-Ion Batteries

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PHYS.P-121 Nuclear Quantum Effects on Melting Domain
Size and Recrystallization of Crystalline Ice
Revealed by Time-Resolved X-ray Scattering

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PHYS.P-122 Challenges in Coordination Number
Quantification and Insights from In Operando
Raman Studies of LIB Electrolytes

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PHYS.P-123 Computational Study of the Solvent Exclusion
Effect of Biomolecules in Water

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PHYS.P-124 Polyamine-Induced Aggregation of Human
Serum Albumin

Konika Tyagi, Sang Hak Lee*
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University, Korea*

PHYS.P-125 Conformational Structure and Preference of 2-
Thiophenecarboxaldehyde Probed by VUV-MATI
Spectroscopy

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PHYS.P-126 Conformer-Specific High-Resolution VUV-MATI
Spectroscopy of 3-Thiophenecarboxaldehyde

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PHYS.P-127 Formyl Position Effects in
Pyridinecarboxaldehydes via High-Resolution

VUV-MATI Spectroscopy
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PHYS.P-128 Conformer-Resolved Ionization and Stability of Furfural via VUV-MATI Spectroscopy
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PHYS.P-129 Metal and Non-Metal Co-Doped WS₂ Nanostructures as Electrocatalysts for Highly Efficient Hydrogen Evolution
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PHYS.P-130 Magnesium Silicate@Surface-Functionalized MXene Composite Interlayer Material for High-Performance Lithium-Sulfur Batteries
Yun Jong Seo, Naga Vamsi Krishna Boliseti, Dae Hwan Cho, Seung Jun Lee*
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PHYS.P-131 Theoretical Study on the Potential Energy Curves and Spectroscopic Properties of Gold Monoiodide (Aul)
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PHYS.P-132 Real-Time Observation of Alkali-Metal Dependent MoS₂ Films
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PHYS.P-133 Development of Core-shell Mesoporous Agro-Silicon@PDA f-MXene Composite for High-

Capacity and Long-Life Lithium-Ion Battery Anodes
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PHYS.P-134 Boosting Electrochemical Performance of Lithium Iron Phosphate Using 2D Functionalized MXene for Advanced Lithium Ion Battery
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PHYS.P-135 Development of a Core-Shell Se@PDA f-MXene Composite Cathode for High Performance Zn-Se Batteries
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PHYS.P-136 3D FeCo-PBA MOF Nanocubes Anchored on PDA Functionalized 2D-Ti₃C₂T_x for Enhanced Pseudocapacitive Energy Storage
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PHYS.P-137 Fe₃O₄@Au NPs@SiO₂ Nanoparticles for Sensitive SERS-Based Early Cancer Detection
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PHYS.P-138 Charged Biomolecules Modulate Condensation of hnRNPA1 in E. coli
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PHYS.P-139 Charge-Driven CO₂ Anionic Activation on Aza-PAH-Based Single-Atom Transition Metal Catalysts

Minhyeok Noh, Sang Hak Lee*
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PHYS.P-140 High-Entropy Spinel Oxides via Multimetal Substitution: Compositional Tuning and Material Properties

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PHYS.P-141 Gas-Phase Circular Dichroism and TDDFT Investigation of Atropisomerism in Jet-Cooled 6,6'-Dimethyl-2,2'-Diaminobiphenyl

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PHYS.P-142 Solvent-Dependent Variations in ESIPT Excited-State Dynamics of Benzothiazole Derivatives

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PHYS.P-143 Dynamic RNA Screening Activity and Cleavage Mechanisms of Cas13a

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PHYS.P-144 Influence of Surface Structures and Temperature on the Activity of Acetylene Hydrogenation on Pd Surfaces: A DFT Approach

Doyeon Son, Hee-Joon Chun*
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PHYS.P-145 Phase Behavior of Chromatin During Plant Mitosis Modulated by Polyamines

Yejin Kim, Sang Hak Lee*
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PHYS.P-146 Fast Lifetime and Anomalous Photon Upconversion Properties of Er³⁺ Doped NASICON Type NaTi₂(PO₄)₃

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PHYS.P-147 DFT Investigation of Metal Coordination and Reactivity in Minimal Metalloenzyme Models

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PHYS.P-148 Oxygen and Helium Ions Implanted SnO₂ Thin Films Deposited on Silicon

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PHYS.P-149 Modeling Membrane Permeability and Biotransformation Rate Constants of Complex Organic Chemicals Using Machine Learning and Retrieval-Augmented LLMs

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PHYS.P-150 Enhancing Sampling Efficiency in High-Barrier Systems via Hybrid Resolution Exchange Molecular Dynamics

Janghee Hong, Rakwoo Chang*
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PHYS.P-151 DFT Study of Li-S Adsorption Binding Energies, Gibbs Free-Energy Changes, and Decomposition Activation Barriers on g-C₃N₄ and Fe SAC@g-C₃N₄ Surfaces

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PHYS.P-152 Investigation of Binding Free Energy LiPF₆ in Organic Solvents Using Moment Tensor Potential-Based Machine Learning Force Field

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- PHYS.P-153** Quantitative Understanding of Bacterial Growth and Persistence with a New Chemical-Kinetic Framework
Jaehyuk Won, Ji-Hyun Kim*, Jaeyoung Sung*
Department of Chemistry, Chung-Ang University, Korea
- PHYS.P-154** Accurate Prediction of Band Gaps of Organic Semiconductor Materials Using Optimally Tuned Long-Range Corrected Density Functional Theory (OT-LC-DFT)
Dae-Hwan Ahn, Jong-Won Song^{1,*}
Department of Chemistry, Daegu University, Korea
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- PHYS.P-155** Substituent Driven Control of Excited-State Dynamics in Donor-Acceptor Structured Photoacids
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Department of Chemistry & Nanoscience, Ewha Womans University, Korea
¹*Department of Chemistry, Yonsei University, Korea*
- PHYS.P-156** 2D IR Study of Fermi Resonance and Thermodynamic Properties (ΔH and ΔS) of *syn*- and *anti*-Isomers of Acetic Acid in Acetonitrile
Inwoo Lee, Jin Gyu Seol, Yung Sam Kim*
Department of Chemistry, UNIST, Korea
- PHYS.P-157** Chemical Analysis for Excited Three-State Reactions
Seung-Woo Lee, Seong-Jun Kim, Oh-Hoon Kwon*
Department of Chemistry, UNIST, Korea
- PHYS.P-158** Semiclassical Multistate Quantum Dynamics Using Thermalized Gaussian Wavepacket
Yoosang Son, Yeseong Choi, Hyungjun Kim*
Department of Chemistry, KAIST, Korea
- PHYS.P-159** Stability Enhancement of BiVO₄ Photoanodes in PEC CO₂ Reduction by Carbonaceous Layer
Serin Jung, Myung Jong Kang^{1,*}
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- PHYS.P-160** Quantifying Temperature-Dependent Vibrational Sum-Frequency Generation of Alkanethiol Self-Assembled Monolayers via MD-Derived Orientational Ensembles and DFT
Hojeong Yoon, Kyungwon Kwak^{1,*}, Minhaeng Cho^{1,*}, Saima Sadiq²
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- PHYS.P-161** Molecular Dynamics Simulation Studies on Ion Transport Mechanisms in OIPC-Polymer Composites.
Gyeongbin Kwon, Chung Bin Park*
Department of Chemistry Education, Korea National University of Education, Korea
- PHYS.P-162** Surface-Dependent and Diffusion-Driven MoS₂ Growth via Sodium Catalyst in Real-Time
Yoonbeen Kang, Jinyoung Seo, Sang-Yong Ju*
Department of Chemistry, Yonsei University, Korea
- PHYS.P-163** Probing Gating-Induced Phase Transitions in MoTe₂ via In-situ XRD and Femtosecond X-ray Spectroscopy
Kyungtaek Oh, Kyung Hwan Kim*
Department of Chemistry, POSTECH, Korea
- PHYS.P-164** Effect of Divalent Cation Chlorides on the Structure and Dynamics of Water Confined between Lipid Bilayers
Minho Lee, Jinwon Park, Ji-Hyun Kim, Jaeyoung Sung*
Department of Chemistry, Chung-Ang University, Korea
- PHYS.P-165** Tailoring the Mg/Al Ratio in Layered Double Hydroxides for Enhanced CO₂ Reduction Performance
Yeonwoo Kim, Myung Jong Kang*
Department of Chemistry, Gangneung-Wonju National University, Korea
- PHYS.P-166** Effects of Glucose on the Formation of hIAPP Aggregates and Their Interactions with

Phospholipid Model Membrane
Deok Hyun Son, Dong-Kuk Lee*
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PHYS.P-167 Forward-Scattering Stimulated Raman Spectroscopy of 2D Inorganic and Organic Crystals
Minji Ko, Sunmin Ryu*
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PHYS.P-168 Polarized Absorption and Photoluminescence of Two-Dimensional Diindenoperylene Crystals
Dayeon Ko, Sunmin Ryu*
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PHYS.P-169 Preparation of Vertically Aligned WO₃ Nanoplate Films as Photoanodes for Coupled CO₂ Reduction Systems
Yeongsu Do, Myung Jong Kang*
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PHYS.P-170 Structural Insight of Amyloid Beta Fibrils
Yeeun Lee, Hugh I. Kim*
Department of Chemistry, Korea University, Korea

PHYS.P-171 Understanding the Effect of Non-Covalent Interactions on Excited-State Behavior: A Theoretical Analysis of Thermally Activated Delayed Fluorescence Materials and Their Derivatives
Byeonghyeon Hwang, Dongwook Kim*
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PHYS.P-172 Coil-To-Globule Transition of a Bead-Spring Polymer in Explicit Solvent
Jaehyeok Jang, Hyun Woo Cho*
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PHYS.P-173 Finite-Size Scaling and Universality of First-Order Transitions in Single Polymer Chains
Jeongtae Kim, Hyun Woo Cho*
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PHYS.P-174 Assembly of Gold Nanoparticles through Amide Bond Formation

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PHYS.P-175 Plasmon-Driven Photothermal Crystallization of TiO₂ Shells on Gold Nanorods
Soeun Ryu, Sangwoon Yoon*
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PHYS.P-176 Plasmonic Water Splitting: Effect of Gold Nanoparticle Size
Minsu Lee, Sangwoon Yoon*
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PHYS.P-177 Computational Study on the Multi-Configurational Excited-State Properties of Organic Light-Emitting Diode(OLED) Emitters with Inverted Singlet-Triplet Energy Levels
Yebin Kim, Dongwook Kim*
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PHYS.P-178 Impact of Huang-Rhys Factors on Emission FWHM in the MR-TADF Emitter
Minjae Ga, Dongwook Kim*
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PHYS.P-179 Tunable Multimetallic Single Atom Catalysts for Efficient Hydrogen Evolution Reaction
Jeong Eun An, Irtiqah Mishal, Junaid Ihsan, Junhyeok Choi, Youn Jun Choi, In Hye Kwak¹, Ik Seon Kwon², Jeunghye Park³, *
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PHYS.P-180 High-Precision Size Determination of Airborne Droplets Using Small Angle X-ray Scattering (SAXS)
Kyeongmin Nam, Jongcheol Seo*, Kyung Hwan Kim*
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PHYS.P-181 2H-1T' Phase Transition of $W_{1-x}Mo_xS_2$ Alloy Nanosheets via Colloidal Reaction and Their Model Calculations
Youn Jun Choi, Juyeon Kim¹, Junhyeok Choi, Junaid Ihsan, Irtiqah Mishal, Jeong Eun An, In Hye Kwak^{2,*}, Ik Seon Kwon^{3,*}, Jeunghee Park^{4,*}, Hong Seok Kang^{5,*}
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PHYS.P-182 Synthesis of $MoSe_2$ - WSe_2 Heterostructures with Coexisting Lateral and Vertical Junction and Their Enhanced Nonlinear Optical Response and p-n Junction Diodes
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PHYS.P-183 Shape-Controlled Evolution of Structural and Magnetic Properties in NiO Nanoparticles: From Cubes to Spheres
Jicheol Son, Jaehoon Jung^{*}
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PHYS.P-184 $Ru_{1-x}Mo_xSe_2$ Alloy Nanosheets as Stable Electrocatalysts for Efficient Hydrogen and Oxygen Production
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PHYS.P-185 Two-Dimensional Quaternary Alloying of $(MoVNb)Se_2$ with Ru for Superior Hydrogen Evolution Reaction Catalysis
Irtiqah Mishal, Junaid Ihsan, Junhyeok Choi, Jeong Eun An, Youn Jun Choi, In Hye Kwak¹, Ik Seon Kwon², Jeunghee Park^{3,*}
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PHYS.P-186 Thickness-Dependent Exciton Relaxation Pathways in Two-Dimensional Crystals of PTCDA
Seungil Ahn, Sunmin Ryu^{*}
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PHYS.P-187 Facile Synthesis of $g-C_3N_4$ Photocatalyst and Electrode Fabrication for CO_2 Reduction
Kyung Suh Kim, Myung Jong Kang^{*}
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PHYS.P-188 Alloying of WS_2 and MoS_2 Nanosheets with Nb to Enhance Electrocatalytic Hydrogen Evolution Reaction
Junaid Ihsan, Juyeon Kim¹, Irtiqah Mishal, Junhyeok Choi, Youn Jun Choi, Jeong Eun An, In Hye Kwak², Ik Seon Kwon³, Jeunghee Park^{4,*}, Hong Seok Kang^{5,*}
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PHYS.P-189 Strong Coupling between Gold Nanocubes and

J-Aggregates in Plasmonic Nanocavities

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PHYS.P-190

Inter-Chain Hydrogen Bonding Effects on
Chemical Stability of Self-Assembled Monolayers

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PHYS.P-191

Monitoring the Inside of Reaction Vessel with
FTIR Spectroscopy: Endoscopic Transmission FT-
IR Probe with Hollow-Core Fiber

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Kyungwon Kwak*, Minhaeng Cho*

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PHYS.P-192

Hop Function Analysis for the Revolving Door
Mechanisms in Organic Ionic Plastic Crystals

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Korea*

PHYS.P-193

Facet-Dependent Strong Metal-Support
Interaction in Ru/TiO₂ Probed by Ambient
Pressure XPS during NH₃ Decomposition

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PHYS.P-194

Investigation on the Effect of Hot Electrons on
Photocatalytic Methanol Oxidation Reaction

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PHYS.P-195

Influence of X Elements on the Tribological
Properties and Surface Chemistry of MXene
Atomic Layers

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PHYS.P-196

In Situ Observations of CO₂ Activation on the
PdIn(111) Alloy Surface at Ambient Pressure

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PHYS.P-197

How Water Makes the Surface Slippery; Friction
on Water/Au(111) Investigated with Variable-
Pressure Atomic Force Microscopy

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Operando Spectroscopic Analysis of Strong
Metal-Support Interaction in Pt/Facet-Controlled
Co₃O₄ Catalysts

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ANAL.P-199 Host-Guest Complexation Dynamics: Cholesterol-Induced Molecular Exchange on β -Cyclodextrin-Coated Gold Nanorods
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ANAL.P-200 Serum Metabolomics for Biomarker Discovery in Alzheimer's Disease Using IVDr NMR Spectroscopy
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ANAL.P-201 Metabolomic analysis of UUO-induced Kidney Injury in Mouse models
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ANAL.P-202 nLC-MS/MS-based Proteomics for the Identification of Cancer-Specific PSA in Prostate Cancer Tissue
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ANAL.P-203 Morphology-Directed Growth of Urchin-Like Au Nanoparticles Using Modular Microfluidic Chips
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ANAL.P-204 Metabolic Changes of Kidney Cortex and Medulla in CKD
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ANAL.P-205 Probing Chemical Interface Damping in Bimetallic Silver-Coated Gold Nanorods with Exposed Gold Tips via Single-Particle Spectroscopy
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ANAL.P-206 Improved Photoelectrochemical Sensing Performance for Glucose Detection Using Heterostructure Nanocomposite
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ANAL.P-207 Sustainable Photodegradation of PBAT Mulching Films Using Eggshell-Derived Ca(OH)₂ Catalyst
Heeju Jang, Dong-Ku Kang*
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ANAL.P-208 Ligand Counting and Size Determination of Quantum Dots Using Electronegative Matrix-Assisted Laser Desorption Ionization
Sanghwang Park, Dongyeon No, Seung Koo Shin*, Sung Jun Lim^{1,*}, Jongcheol Seo*
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ANAL.P-209 Spectroscopic Observation of Atomically Dispersed Platinum Dynamics
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ANAL.P-210 Single-Particle Investigation of Plasmon Modulation in Au Nanorod-Hematite Core-Shells via Dark-Field Spectroelectrochemistry
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ANAL.P-211 A Study on the Application of Internal Standards and Matrix Matching for the Effective Analysis of Trace Metals in Lithium Sulfide Using ICP-OES
Woo Mi Lee, Kwang Sun Ryu^{*}
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ANAL.P-212 Fabrication of Uniformly Dispersed Core-Shell Nanoparticles for Flame Retardant Applications
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ANAL.P-213 Evaluation of Senolytic and Senomorphic Activities of Peptide A in a Doxorubicin-Induced Cellular Aging
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ANAL.P-214 A Quantitative Adhesion Study for BSP Films Based on a Coupled Parametric and Statistical Analysis
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ANAL.P-215 Controlled Surface Morphological Study for Plasmonic Enhanced Optical Property of Upconversion Nanoparticles
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ANAL.P-216 Rapid Elemental Analysis of Steels without Sample Pretreatment by Laser-Induced Breakdown Spectroscopy
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ANAL.P-217 CRISPR/Cas-Driven Au Nanowire SERS Sensor for African Swine Fever Virus Detection
Jinhee Park, Hongki Kim^{*}
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ANAL.P-218 Unraveling Crystallinity Changes of PVDF Binders During Cycling Using Solid-State NMR for High-Performance Electrode
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ANAL.P-219 Activating SERS via Electrodeposition Guided by Defective Molecular Layer
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ANAL.P-220 Selective Detection of Dopamine and Ascorbic Acid Using Nanoporous Gold Electrodes
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ANAL.P-221 Control of Electrochemical Reactions Using Structural Features of Nanoporous Electrodes
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ANAL.P-222 Development of a Nanopipette-Based Nanoscale Electrochemical System
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ANAL.P-223 One-Step Green Synthesis of 2D Nanostructures in Water Microdroplets for Catalytic Applications
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ANAL.P-224 Exploring Transition Metal-Based Catalysts for Efficient Propylene Electrooxidation
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Department of Chemistry, University of Ulsan, Korea

ANAL.P-225 Amphiphilic Mesoporous Silica-Polydopamine Janus Nanoparticles for Biphasic Oil-Water Pollutant Removal
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ANAL.P-226 Molecular Design and Application of Light-Responsive Microcapsules for Skin Delivery
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ANAL.P-227 Ferrocene-Based Reductive Amination Labeling of Glycans for Mass Spectrometry
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ANAL.P-228 SABRE-Relay Hyperpolarization of Alcohols Using Acetylhydrazide as A Carrier Agent
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ANAL.P-229 Partial Degradation and Chemical Transformation of Polystyrene Foam Mediated by Mealworms and Associated Microorganisms
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ANAL.P-230 Carboxymethyl Starch as Biodegradable Barrier Material : NMR-Based Structural Characterization for Postoperative Adhesion Prevention
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ANAL.P-231 Development of an N-Well Plate-Compatible Automated Fluid-Exchange Bioreactor Enabling Pharmacokinetic-Mimetic Drug Delivery and Versatile 3D Culture Applications
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ANAL.P-232 High-Throughput Classification of Recycled Plastic Flakes Using SWIR Area-Scan Imaging and Deep Learning
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ANAL.P-233 Non-Targeted Analysis of Combustion-Derived Chemicals in Aquatic Environments After an Industrial Fire
Woo-Young Song, Tae-Young Kim*
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Engineering, GIST, Korea

ANAL.P-234 The Semi-Automated Refinement Assistant (SARA): Case Studies of Metal Organic Complex
Jiyu Park, Jaeho Kim, Sang Jun Lee¹, Jun Hyeok Kang¹, Joonyong Lee¹, Hee-Seung Lee*, Jintaek Gong^{1,*}
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ANAL.P-235 Molecular Bond Activation Driven by Localized Surface Plasmons
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ANAL.P-236 Evidence Detection Potential and Assessment of Contamination Level Prediction Using GC-MS Analysis of Chemical Agent Detection Papers
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ANAL.P-237 Development of a Flexible and Biocompatible Electrochemical Sensor for Continuous Liver Enzyme Monitoring
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ANAL.P-238 Simultaneous Detection of Dual Prostate-Specific Antigens on a Single Line Using a Portable SERS-LFA System for Accurate Prostate Cancer Diagnosis
Younju Joung, Yujin Cha, Mina Shin, Jaebum Choo*
Department of Chemistry, Chung-Ang University, Korea

ANAL.P-239 Biochemical Insights into Cryo-Engineering Bioprinting Scaffolds: Tuning Polysaccharide Mechanical Properties via Freeze–Thaw Cycles
Jumi Kang, Kyueui Lee*
Department of Chemistry, Kyungpook National University, Korea

ANAL.P-240 Novel Application of CRISPR/dCas9 and Graphene Oxide for Developing a Biosensor for Simple and Rapid Detection of Antibiotic-Resistant Genes
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ANAL.P-241 Deep Learning-Based Prediction of Experimental UV-Vis and Fluorescence Spectra from Molecular Structures
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ANAL.P-242 Development of Maximum Common Substructure Based Conditional Diffusion Model for the Design of Plastic Recycling Marker Molecules
Dong Ryeol Shin, Sung Kwang Lee*
Department of Chemistry, Hannam University, Korea

ANAL.P-243 Atomically Chiral Se Exhibiting Long-Term Stability across a Broader Detection Range
Jai Hong, Junyoung Kwon*
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ANAL.P-244 Method Development and Optimization of Single-Cell Proteomics
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ANAL.P-245 Hierarchically Self-Assembled Chiral Ceramic Nanostructures
Yujeong Choi, Junyoung Kwon*
Department of Nanotechnology Engineering, Pukyong National University, Korea

ANAL.P-246 SERS-Integrated Microfluidic Immunoassay Platform for High-Throughput Quantification of AFP
Suyoung Kang, Kyubin Kwon, Yeram Kim, Jaebum Choo*
Department of Chemistry, Chung-Ang University, Korea

- ANAL.P-247** Study on Detection Characteristics of Chemical Warfare Agents Using 4-Color X-ray Imaging and Application of a Classification Model
Han-Yeol Nam, Moonsik Shin
Department of Chemical Analysis and Synthesis, CBRN Defense Research Institute, Ministry of Defense, Korea
- ANAL.P-248** Lipid Analysis of Human Skin with Melanoma and Dysplastic Nevus by Nanoflow UHPLC-ESI-MS/MS
Junha Choi, Soomin Kang, Myeong Hee Moon*
Department of Chemistry, Yonsei University, Korea
- ANAL.P-249** Direct Lipid Analysis of Salivary Exosomes and Microvesicles by Flow Field-Flow Fractionation Coupled with Electrospray Ionization Tandem Mass Spectrometry
Donggyun Kim, Myeong Hee Moon*
Department of Chemistry, Yonsei University, Korea
- ANAL.P-250** Stimuli-Responsive Structural Transformation from e,e- to a,a-*trans*-Cyclohexanedicarboxylate in Cd(II) Metal–Organic Frameworks
Kyungnye Ju, Taehun Kim, Jisu Lim, Gyeongun Ahn¹, In-Hyeok Park*
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- ANAL.P-251** Boosting High-Voltage Capability of Na₃V₂(PO₄)₂F₃ Cathode through Surface Coating in Sodium-Ion Batteries
Nayoung Kwon, Dohun Kim, Youngil Lee*
Department of Chemistry, University of Ulsan, Korea
- ANAL.P-252** Study on the Influence of Nb Doping and Ionic Coating Layers on High-Performance VPO₅ Anode Materials for Lithium-Ion Batteries
Eungyeong Jung, Seongjun Park, Youngil Lee*
Department of Chemistry, University of Ulsan, Korea
- ANAL.P-253** Exploring Reaction Mechanisms and Molecular Strategies for Redox Site Activation in Naturally Derived Organic Compounds
Hanbyeol Choi, Wontae Lee^{1, *}
Department of Chemistry, Kyungpook National University, Korea
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- ANAL.P-254** Bioinspired Polyphenol-Based Nanomaterials for Reducing Odors
Inseop Jung, Kyueui Lee*
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- ANAL.P-255** Development and Optimization of SPE–LC–MS/MS Method for PFAS Determination in Cosmetics
Hyojin Lim, Hyunmi Kim*
R&D Management Team, Aekyung Industrial Co., Ltd, Korea
- ANAL.P-256** Application of Metabolic Isotope Labeling with Isotopic Glucose for Quantitative O-Glycomic Profiling in Yeast
Seonyoung Kang, Jae-Min Lim*
Department of Chemistry, Changwon National University, Korea
- ANAL.P-257** Real-Time Visualization of Fucoidan-Driven Nanoparticle Transport Dynamics in Living Cells
Seungah Lee, Seong Ho Kang*
Department of Applied Chemistry, Kyung Hee University, Korea
- ANAL.P-258** Probing Chemical Interface Damping during the Electroreduction of 4-Nitrothiophenol by In Situ Single-Particle Spectroelectrochemistry
Andreas Silalahi, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- ANAL.P-259** Metal – Semiconductor Interfacial Engineering for Stronger Plasmon Damping: A Single – Particle Study of Au – AgCdSe Nanostructures
Rafifah Hana Raihana Syam, Ji Won Ha*
Department of Chemistry, University of Ulsan, Korea
- ANAL.P-260** Advancing Multiplexed Bottom-Up Proteomics with Nano-HILIC Platform Eliminating Deuterium-Induced Retention Shift
Jae-Yoon Jo, Jong-Seo Kim*

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ANAL.P-261 Light-Driven Plasmonic Chip for On-Site and Economical LAMP DNA Detection
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ANAL.P-262 Highly Sensitive RNA Detection via CRISPR/Cas12a and Split crRNA Using SERS
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ANAL.P-263 Tailoring Solar Absorption with Tunable Gold Nanorods in PDMS Composites for High-Performance Ambient Solar Thermoelectric Generators
Sabahat Waheed, Geon Park¹, Jung-Hoon Lee
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ANAL.P-264 On-Paper Multifunctional Digital Microfluidic System: Gold Nanoparticles Synthesis and Dual-Mode Multiplexed Detection Assays
Sarath Kin, Kwanwoo Shin^{*}
Department of Chemistry, Sogang University, Korea

ANAL.P-265 Development of HS-GC/FID-Based Body Odor Analysis and Deodorization Performance Evaluation Method
Soobin Choi, Yumi Kim^{*}
R&D Management Team, Aekyung Industrial Co., Ltd., Korea

ANAL.P-266 Kinetic Pathway of Porphyrin-Based Supramolecular Polymers with Induced Chirality
Soeun Jo, Hyoungwook Kang, Sung Ho Jung^{*}
Department of Chemistry, Gyeongsang National University, Korea

ANAL.P-267 Prediction of Fluorescence Maximum Emission Wavelength Using Machine Learning with

Quantum Chemical Descriptors
Haram Park, Sung Kwang Lee^{*}, Geon Ko^{*}
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ANAL.P-268 Prediction and Classification of Antimicrobial Activity in Peptides Using Machine Learning Methods Based on Sequence and MIC Data
Jonghyeon Noh, Sung Kwang Lee^{*}
Department of Chemistry, Hannam University, Korea

ANAL.P-269 Photothermal Magnetic Nanoparticles: Enabling Nucleic Acid Extraction for All-In-One Molecular Diagnostic Devices
Euijin Son, Jung-Hoon Lee
Department of Chemistry, Soonchunhyang University, Korea

ANAL.P-270 Mitigating Radiation Damping in CP-HETMAT CEST for High-Water Content Samples
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ANAL.P-271 Identification of Cancer Boundary in Carcinoma Tissue Using Scanning Laser-Induced Breakdown Spectroscopy
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ANAL.P-272 Design of a Highly Sensitive and Reproducible SERS-Based Molecular Diagnostic System Employing AuNP Internalization
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LIFE.P-273 Glycan-Mediated Aggregation of Somatostatin and Its Toxicity Pathways within Diabetes
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LIFE.P-274 Nanoparticle-Based Sequential Therapy Directed at Neutrophil Hyperactivation to Prevent Fibrosis in the Lungs
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LIFE.P-275 Phase Separation of Amino Acid Derivatives and Water: Molecular Dynamics Study
Aeji Park, Jeong-Mo Choi*, Kyungtae Kang^{1, *}, Joohyung Lee¹
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LIFE.P-276 Potentiation of Endolysin Activity and Specificity against Staphylococcus Aureus by Lactacaseibacillus Paracasei-Derived Extracellular Vesicles
Sohyeon Park, Kwang-Sun Kim*
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LIFE.P-277 Synthesis of Fg-Ag Biometallic Nanocomposites Using Lactacaseibacillus Paracasei Cell-Free Supernatants and Their Physicochemical and Antibacterial Characterization
Sukrit Kashyap, Kwang-Sun Kim*
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LIFE.P-278 De Novo Design of Binders Targeting Amyloid Beta in Helical Conformation
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LIFE.P-279 TAU-5 Domain is an LLPS-Competent Region of the Androgen Receptor NTD
Hyeoun Lim, Yejin Jeon, Chin-Ju Park*
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LIFE.P-280 Structural Insights into the Interaction Between p97 N-terminal Domain and p47 SEP-UBX Domain
Sooyeon Jung, Wonchull Kang*
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LIFE.P-281 Expression, Purification, and Biochemical Characterization of SufR from *Mycobacterium Tuberculosis*
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LIFE.P-282 Expression, Purification, and Biochemical Characterization of SufC from *Mycobacterium Tuberculosis*
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LIFE.P-283 Divalent Cation Regulation of Actin Filamentary Bundles and Networks
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LIFE.P-284 Discovery of Anti-inflammatory Small Molecule via Phenotypic Screening
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LIFE.P-285

Engineered Protein-Gold Nanoparticle Complexes as Membrane-Disrupting Agents for Cancer Immunotherapy

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LIFE.P-286

Development of High-Density Hapten-Carrier Conjugates for Antibody Generation Targeting Residual Pesticides in Livestock and Aquatic Food Products

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LIFE.P-287

Anchoring Effect of Microtubule Networks on Glass Surfaces

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LIFE.P-288

Fabrication of Multi-Cell Layers via $\alpha 5 \beta 1$ Integrin Mediated Intercellular Cohesion

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LIFE.P-289

Artificial Infection Pathway of COVID-19 using Giant Unilamellar Vesicle and Lipid Nanoparticle

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LIFE.P-290

Effect of Crowder Molecular Weight on Biomolecular Phase Separation

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Modular Fc Fusion Platform for Long-Acting Peptide Therapeutics and Rapid ADC Generation

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Crowder Chemistry in Biomolecular Phase Separation

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LIFE.P-293

Active Armoring of Protocell Condensates with Metal-Phenolic Networks

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Design and Engineering of Phase Separation Driver Proteins

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Photo Regulated Assembly-Disassembly Dynamics for Interfering Organelle Membrane Integrity

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LIFE.P-296

Light-Driven Proton Pumping in Artificial Organelles: A Sustainable Bioenergy Conversion

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Cell-Free Protein Expression System in a Single Liposome to Create Artificial Cells with Energy Harvesting Capabilities

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LIFE.P-298

Multi-Target Macrocycles: Pyrogallol Derivatives to Control Multiple Pathological Factors Associated with Alzheimer's Disease

Jimin Kwak, Yelim Yi, Seongmin Park, Mi Hee Lim*

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ORGN.P-168 Synthesis of Suvorexant

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ORGN.P-169 Synthesis of Protected Secondary N-Alkylamines
via Direct Reductive Amination of Protected
Primary Amines Using Me₂SiHCl as Reductant

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ORGN.P-170 NHC/Base-Promoted Annulation–Rearrangement
Cascade for the Divergent Synthesis of Five- and
Six-Membered Lactone-Fused Uracils

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ORGN.P-171 Regiodivergent and Stereoselective
Hydrothiolation of Ynamides under Tunable
Reaction Conditions

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ORGN.P-172 Solution-Phase Synthesis and Physicochemical
Characterization of Bacterial-Penetrating
Peptide–PNA Conjugates

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ORGN.P-173 Efficient Assembly of Poly-Thymine PNA
Oligomers by Solution-Phase Bts Chemistry: An
Alternative to Solid-Phase Synthesis

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University, Korea*

ORGN.P-174 Solution-Phase Synthesis and Characterization
of a Linked Pseudo-Complementary PNA
Capable of Double-Duplex Invasion

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ORGN.P-175 Synthesis and Characterization of Bts-Based
Pyrimidine PNA Monomers Bearing a
Phosphonate Moiety at the 5-Position

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ORGN.P-176 Development of F-PNA/Q-PNA Hybrid Probes
for KRAS Mutation Detection and Their Potential
Use in Digital PCR

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University, Korea*

ORGN.P-177 Chiral L-Proline-Based Primary Amines for
Selective α -Amination of α -Substituted β -
Ketoesters via Synergistic Dual Activation

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ORGN.P-178 Studies toward the Total Synthesis of
Cephanolide B and C via Intramolecular Diels-
Alder Reaction

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ORGN.P-179 Studies towards the Total Synthesis of Hippadine
and Lycoranine A via an Intramolecular Diels-
Alder Reaction

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ORGN.P-180 Asymmetric Intramolecular Diels-Alder Reaction
of 2-Pyrone for the Total Synthesis of (+)-
Cyanthiwigin B

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ORGN.P-181 Harnessing Bifunctional *N*-Benzoyloxyamides for Photoredox Amidative Dual Functionalizations of Alkenes

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ORGN.P-182 Efficient Deuteration of Aromatic Hydrocarbons with Heavy Water over Nickel Catalyst and Synthetic Strategy for High D-Content of Benzene

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ORGN.P-183 Rational Design For N-Oxyl Mediated Photocatalytic Bond C–C Cleavage of Lignin: The Critical Interplay of Components of Photoelectrocatalytic System

Jeong Kyeong Lee, Tae-Hyuk Kwon*

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ORGN.P-184 Tailoring Triarylboranes for Catalytic Applications

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ORGN.P-185 Aquacatalyzed Nucleophilic Substitution Enables Rapid On-DNA Conjugation

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ORGN.P-186 Click To Chiral: Circularly Polarized Luminescence of Asymmetrically Ring-Fused Cyclooctatetraenes

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University, Korea

ORGN.P-187 Spiro-Bioisosteres via [2+2] Cycloaddition Enabled by Aquaphotocatalysis “on-Water”

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ORGN.P-188 Acid-Base Dual Doped Graphene for Electrochemical Urea Synthesis.

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ORGN.P-189 Organosuperbase-Catalyzed Enhancement of SuFEx-like Reactivity “On-Water”

Dong Hyeon Kim, Tae Eun An, Han Yong Bae*

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ORGN.P-190 NIR Fluorescent Probe Based on Dicyanoisophorone-Pyrene for Selective Detection of Dithiol-Containing Redox Species

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Korea

ORGN.P-191 Development of a Degenerate Photo-Crosslinking DNA-Encoded Library (dpX-DEL) Platform for Enhanced Covalent Screening

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Korea

ORGN.P-192 A Novel NQO1-Responsive Naphthalimide Theranostic Agent for Simultaneous Fluorescence Imaging and Targeted Cancer Therapy

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Korea

ORGN.P-193 Development of a Dual-Responsive Fluorescent Probe for hNQO1/HOCl and Its Application in Cancer Photodynamic Therapy

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Korea

ORGN.P-194 Hemicyanine-Coumarin Based Fluorescent Probes for Simultaneous Monitoring of H₂S and H₂O₂ in Redox-Related Disease Analysis

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ORGN.P-195 Dual-Responsive Fluorescent Probe for Simultaneous Detection of Superoxide and Hypochlorite

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ORGN.P-196 A Water Soluble Naphthalimide-Thiomorpholine Derivative as a Turn-On Fluorescent Probe for Monitoring Hypochlorite Ions
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ORGN.P-197 Dual-Responsive Fluorescent Probes for Hypochlorite Ion: Simultaneous Monitoring of ATP and Nitroreductase in Inflammation and Tumor Theranostic Applications.
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ORGN.P-198 Chemical Recycling of Tires by Manufacturer through Four-Section Decomposition
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ORGN.P-199 Fluorescent Detection of Hypochlorous Acid Using a Mitochondria-Targeted Naphthalimide Probe
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ORGN.P-200 From (+)-(R)-Limonene to (-)-Rotundone in Eight Steps via Ring Expansion
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ORGN.P-201 Enantioselective Formal [3+2] Cycloaddition Reaction of Allylsilanes Catalyzed by Oxazaborolidinium Ion: Structural Verification Using 1D-NOESY Experiments
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ORGN.P-202 Site-Dependent Modulation of Antitumor Activity and Fluorescence in Thieno[3,2-*b*]pyridin-5(4*H*)-Ones via Regioselective Aza-[3+3] Cycloaddition
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ORGN.P-203 Sustainable FeCl₃-Catalyzed Photochemical Transamidation of Nitroarenes via Sacrificial C–H Bond Activation
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ORGN.P-204 Synthesis of 4-Amino Pyrrolo and Indolo[1,2-*a*]Quinoxalines via Copper-Catalyzed Insertion of O-benzoylhydroxylamines into Isocyanide
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ORGN.P-205 Red-Light Photoredox Catalysis with Bridged Fluorescein Derivatives
Ryeongun Kim, Jungkyu Lee*
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ORGN.P-206 A One-Pot Method for Synthesizing *N*-Formylaniline via Amide Activation and Oxalic Acid-Driven Reduction
Heewon Lee, Yejin Koo, Eunbin Kim, Sunwoo Lee*
Department of Chemistry, Chonnam National University, Korea

ORGN.P-207 Oxalic Acid as a Dual CO/H₂ Source for Palladium-Catalyzed *N*-Formylaniline Synthesis
Nithin Poothari, Abbas Haruna Umar, Seokin Han, Sunwoo Lee*
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ORGN.P-208 Visible-Light-Driven Direct C–H Amidation of Methyl Arenes Using Nitroarenes as Amide Precursors
Robin Prakash Sirvin Rajan, Jaeryong Park, Sunwoo Lee*

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- ORGN.P-209** Construction of a 5-Acylbenzimidazole DNA-Encoded Library: Overcoming Challenges in the Nitro Reduction Step
Yeongjoo Suh, Hongjun Jeon^{1, *}
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- ORGN.P-210** Cyclopenta[hi]aceanthrylene-Based Molecular Design Strategy for Stable Multi-Electron Transfer via Antiaromaticity
Minju Jin, Jeong Kyeong Lee, Tae-Hyuk Kwon*
Department of Chemistry, UNIST, Korea
- ORGN.P-211** Design and Synthesis of Ice-binding Oligoureia Foldamers
Wonyong Jang, Sung Hyun Yoo*
Department of Chemistry, Chonnam National University, Korea
- ORGN.P-212** Microwave-Assisted Solid Phase Synthesis of Oligourethanes via Azide Strategy
Juyoung Choi, Sung Hyun Yoo*
Department of Chemistry, Chonnam National University, Korea
- ORGN.P-213** Harnessing Oxidative Stress and Target Protein Modulation to Overcome Photodynamic Therapy Resistance
Eunbyeol Yang, Tae-Hyuk Kwon*
Department of Chemistry, UNIST, Korea
- ORGN.P-214** Programmable Small-Molecule Coacervates with Pyridyl Disulfide for Controlled Partitioning and Self-Stabilization
Gaeun Park, Ja-Hyoung Ryu*
Department of Chemistry, UNIST, Korea
- ORGN.P-215** A Green Approach to Benzimidazoles via Catalyst- and Solvent-Free Aerobic Oxidation of Amine
Junsik Choi, Anna Lee^{1, *}
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- ORGN.P-216** Visible-Light-Driven Regioselective Construction of β -Amino Sulfide Frameworks through the Dual Reactivity of N-Iodosuccinimide
Vishal Gudaghe, Anna Lee*
Department of Chemistry, Jeonbuk National University, Korea
- ORGN.P-217** Catalyst- and Solvent-Free Aerobic Oxidative Coupling of Amines: A Simple and Green Pathway to Imines
Mohd Adham, Anna Lee*
Department of Chemistry, Jeonbuk National University, Korea
- ORGN.P-218** Rational Design Strategies for Innovative Small-Molecule Scaffolds *via* Protein Secondary Structure Mimicry
Jeong Yeon Yoo, Ji Hoon Kwon, Seung Bum Park*
Department of Chemistry, Seoul National University, Korea
- ORGN.P-219** DPPA-Mediated One-Pot Construction of Carbamoyl Azides through C–C Bond Cleavage of Carbamoyl Oximes
Ye Rim Choi, Muhammad Saeed Akhtar, Hee Nam Lim*
Department of Chemistry, Yeungnam University, Korea
- ORGN.P-220** Modular Synthesis of Pyridine-Inspired Macrocycles Featuring Bipyridine Motifs
Ji Hyae Lee, Sihyeong Yi, Juhyun Bang, Hyun Choi, Seung Bum Park*
Department of Chemistry, Seoul National University, Korea
- ORGN.P-221** Upcycling of Waste Poly(butylene terephthalate) via an Ir(triNHC) Catalyst
Joohyun Park, Hye-Young Jang^{1, *}
Department of Energy Systems Research, Ajou University, Korea
¹Department of Chemistry, Ajou University, Korea
- ORGN.P-222** Synthesis of Diarylated Lactams: Harnessing BKR Intermediates with Arenes
Su Bin Kim, Hee Nam Lim*

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ORGN.P-223 Tunable Emission Properties of Indolizine-Based Aggregation-Induced Emission Luminogens for White-Light Emission

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ORGN.P-224 Development of Nitro-Substituted Pyrdo[1,2-a] indole Fluorophores for Environment-Sensitive Bioimaging

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ORGN.P-225 Visible-Light-Mediated Access to Highly Substituted Cyclobutanones from α -Keto Acylsilanes and Enamides

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ORGN.P-226 Enantioselective Palladium-Catalyzed Silaboration of Internal Allenamides.

Yejin Jin, Jin Kyoong Park^{*}

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ORGN.P-227 Lewis Acid-Activated Divergent Reactivity of O-Alkynyl-N-furanylanilines towards the Synthesis of Fused Indoles

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ORGN.P-228 Synthesis of a Novel Cyclic Phenyl Phosphonate Nucleoside Prodrugs Using Ring Closing Metathesis

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ORGN.P-229 Development of 6-Azaauridine Analogs for Antiviral Agents against RNA Viruses

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ORGN.P-230 Quinoliporphyrin as an Aromatic Monoanionic Porphyrinoid and Its Degradation Promoted by Cu²⁺

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ORGN.P-231 Photocatalytic N-N Cross-Coupling to Access N'-Aryl Hydrazides

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ORGN.P-232 Design of Cytosine-Functionalized MOFs with Secondary Metal Sites for Enzyme-Like Catalysis

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ORGN.P-233 Substituent Number and Position Effects in Amino-Ester Single Benzene Fluorophores

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ORGN.P-234 Tunable Photophysical Properties of Indium-Salen Complexes through Functional Group Controls

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- ORGN.P-235** Additive-Guided Engineering of Polydopamine Formations
Seyi Hong, Yoonji Heo, Sung Min Kang*, Min Kim*
Department of Chemistry, Chungbuk National University, Korea
- ORGN.P-236** C6-ROMP: Thermodynamic Contributions of Acetal Fused Cyclohexene Monomers
Wootae Choi, Soon Hyeok Hong*
Department of Chemistry, KAIST, Korea
- ORGN.P-237** Novel Low-Band Gap Non-Fullerene Acceptors Based on IDIC Core as Potential Photovoltaic Materials
Kaliappan Radhiha, Yun Hi Kim^{1,*}
Department of Organic Chemistry, Gyeongsang National University, Korea
¹Department of Chemistry, Gyeongsang National University, Korea
- ORGN.P-238** Boosting Type-I ROS Generation in Hypoxic Tumors via Polysulfide-Driven Photoactivated Redox Cycle
Subin Park, Songyi Lee^{1,*}
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- ORGN.P-239** Skeletal Reconstruction of Phenanthrenequinone Monoximes via C–C Bond Cleavage: Direct Access to 4-Cyanofluorenones
Eswaran Kamaraj, Hee Nam Lim*
Department of Chemistry, Yeungnam University, Korea
- ORGN.P-240** Interrupted Beckmann Fragmentation: A New Route to Friedel–Crafts Acylation
Eswaran Kamaraj, Hee Nam Lim*
Department of Chemistry, Yeungnam University, Korea
- ORGN.P-241** Synthesis of 2-Quinolones via Thiolate-Mediated Cyclization of (E)-2-Aminocinnamic Acid Derivatives

Nuoming Goh, Cheol-Hong Cheon*

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- ORGN.P-242** Efficient Synthesis and Structure–Activity Relationship Study of Pyrrole-Linked 1,3,4-Oxadiazoles with Potent Antibacterial Activity
Dabin Kim, Sangho Koo*
Department of Chemistry, Myongji University, Korea
- ORGN.P-243** Regioselective Selective Synthesis of Functional 1,2- and 1,3-Glycerides and Biological Activity
Eunbi Kim, Sangho Koo*
Department of Chemistry, Myongji University, Korea
- ORGN.P-244** HPLC Optimization of Catalytic Suzuki Coupling for All-E-Carotenoid Synthesis
Hansuk Lee, Sangho Koo*
Department of Chemistry, Myongji University, Korea
- ORGN.P-245** Synthesis of Lamellrin O Derivatives by D-ribose Conversion, Halogen Migration and Suzuki Coupling
Ziyuan Luo, Sangho Koo*
Department of Chemistry, Myongji University, Korea
- ORGN.P-246** Enhancing Liver-Targeting Efficiency of GalNAC-Coated Lipid Nanoparticles
Ji Yoon Lee, Insung Choi¹, Yoonkyung Kim*
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¹Department of Chemistry, KAIST, Korea
- ORGN.P-247** Facile Synthesis of α -Nitro Sulfones Derivatives via Double Oxidation of *N*-Hydroxyimidothioate
Dong Hee Kang, Hyun-Suk Yeom*
Center for Eco-Friendly New Materials Research, Korea Research Institute of Chemical Technology, Korea
- ORGN.P-248** Two Different Clar's Sextets: Clar's Rule Does Not Necessarily Contradict the Global Pathway of Conjugated Macrocycles
Pradeep Prakash Desale, Min-Sung Ko, Tae-Ho Roh, Jeong-Im Ham, Dong-Gyu Cho*

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ORGN.P-249 Mechanical Macrocyclic Effects: Stimuli-Responsive Dual Emission by Self-Inclusion and Mutual Exclusion

Seungyeon Hyun, Dongwhan Lee*
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ORGN.P-250 Donor-Acceptor Small-Molecule Photothermal Agents with Indan-Derivative Acceptors

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ORGN.P-251 Streamlined Umpolung Coupling to Diarylamine Using an Easily Accessible Copper Catalyst under Mild Conditions

Seohyeon Yoon, Yeongyeon Lee¹, Jinwoo Kim*
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ORGN.P-252 Facile Alkynylation of Chloropicolinate Derivatives via Copper-Free Sonogashira Coupling

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ORGN.P-253 Photocatalytic Giese-Type Addition of α -Alkoxy Methyl Radical Generated from Benzyl Alcohol

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ORGN.P-254 Transition-Metal-Catalyzed Synthesis of Pentaarylcyclopentadienes from Diarylalkynes

Ju Yun Park, Yong Ho Lee*
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ORGN.P-255 Studies on [2+2+1]-Cyclocarbonylation

Hyundo Lee, Suh Young Yu, Jimin Kim*
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University, Korea

ORGN.P-256 Regio- and Stereoselective Aryne Annulations

Rudia Kim, Jimin Kim*
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ORGN.P-257 Asymmetric Synthesis of Dihydroquinolinones

Jihye Lee, Jimin Kim*
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ORGN.P-258 Modulating Redox Reversibility of Amino-Functionalized Single-Benzene Redoxphores by Proton-Coupled Electron Transfer

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ORGN.P-259 Topology Modulation of Metal-Peptide Networks by Tuning Side-Chain Lengths

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ORGN.P-260 Selective Fluorescent Sensing of Methylmercury(II) Ions in Environmental and Biological Samples

Juyeon Cha, Seoung Ho Lee*, Semin Jang, Jeongwon Yoon, Yongseok Kim
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ORGN.P-261 Rational Design of an Activatable Near-Infrared Fluorogenic Platform for In Vivo Orthotopic Tumor Imaging and Resection

Jeongyeon Hong, Juyoung Yoon*
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ORGN.P-262 Conversion of Albumin into a BODIPY-Like Photosensitizer by a Flick Reaction, Tumor Accumulation and Photodynamic Therapy

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ORGN.P-263 Electrophilic Cleavage of *p*-Hydroxyphenyl Amides and Esters Using Hypervalent Iodine(III)

Reagent and Selectfluor

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ORGN.P-264 The Effect of HFIP for the Direct Transamidation of Secondary Amides

Daniel Song, Hyo-Jun Lee*

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ORGN.P-265 Surface Esterification of Nanodiamonds for Enhanced Dispersion in Organic Solvents

Junki Hong, Jungyoon Ji, Seoyung Choi, Hyo-Jun Lee*

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ORGN.P-266 Structure-Fluorogenic Property Relationship of Bioorthogonal Tetrazine Probes

Sohee Kim, Hayoung Son, Dahham Kim, Wan Gi Byun, Seung Bum Park*

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ORGN.P-267 Asymmetric [3 + 2] Cycloaddition to Access 3-Pyrrolines and Their Switchable Transformations to Nine-Membered Cyclic Sulfamides and 2*H*-Pyrroles

Seoung-Mi Choi, Ju Hyun Kim*

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ORGN.P-268 Synthesis of Belumosudil

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ORGN.P-269 Total Synthesis of Fexuprazan

Jinyeong Jeon, Cheol-Hong Cheon*

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ORGN.P-270 Triphenylamine-Based Donor-Acceptor Dyes for Enhanced Type 1 Photosensitization

Yebeen Choi, Yeonkyeong Lee, Youngmi Kim*

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ORGN.P-271 Strategic Acetylation of BODIPY Dyes: Tuning Excited-State Geometry for the Design of

Fluorogenic Sensing Probes

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ORGN.P-272 Secondary Structure Programming and Chemical Space Expansion of β -Peptides via Site-Selective Thioamide Substitution

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ORGN.P-273 Exploiting Thiirane Chemistry for Intracellular Biothiol Sensing

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ORGN.P-274 Large Scale Preparation of 1-Nitropyrazole under Mild Nitration Condition

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ORGN.P-275 Regioselective Hydroamidation of α,β -Unsaturated Esters Enabled by Lewis Acid/Iron Relay Catalysis

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ORGN.P-276 Stepwise Transformation of Catechols into Conjugated Z,Z-Dienes and Cyclopentadienones via Ring Opening and Ring Contraction

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ORGN.P-277 Visible-Light-Mediated Synthesis of α -Chloro Ketones from Styrene Derivatives

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- ORGN.P-278** Development of Bimetallic g-C₃N₄ Catalysts for Aerobic Benzylic C(sp³)-H Oxidation Using Fluorescence-Based High-Throughput Screening
Yujin Park, Min Su Han*
Department of Chemistry, GIST, Korea
- ORGN.P-279** Stereospecific *syn*-Dihalogenations and Regiodivergent *syn*-Interhalogenation of Alkenes via Vicinal Double Electrophilic Activation Strategy
Juyeon Hong, Hyeon Moon, Jungi Jung, Jun-Ho Choi*, Won-Jin Chung*
Department of Chemistry, GIST, Korea
- ORGN.P-280** Rational Design of Biocompatible Ir(III) Photosensitizer to Overcome Drug-Resistant Cancer via Oxidative Autophagy Inhibition
Mingyu Park, Yoojin Lee, Gwangsu Yoon, Tae-Hyuk Kwon*
Department of Chemistry, UNIST, Korea
- ORGN.P-281** Phenoxysulfonyl Azide: A New Diazo-Transfer Reagent for Metal-Free Conversion of Amines to Azides
Youjeong You, Ji Hye Lee, Hogyu Han*
Department of Chemistry, Korea University, Korea
- ORGN.P-282** Metal-Free Diazo-Transfer in Water Using a Stable, Isolable Reagent
Youjeong You, Ji Hye Lee, Hogyu Han*
Department of Chemistry, Korea University, Korea
- ORGN.P-283** Diastereoselective Synthesis of Cyclobutanes via Rh-Catalyzed Unprecedented C–C Bond Cleavage of Alkylidenecyclopropanes
Taeun Kim, In Su Kim^{1, *}
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- ORGN.P-284** Synthetic Strategy for Ortho-Imino Aryl Phosphonates via Beckmann Rearrangement.
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- ORGN.P-285** Stereospecific *Syn*-Dibromination of N-Protected Allylic Amines by Anchimeric Assistant
Chanwoo Nam, Won-Jin Chung*
Department of Chemistry, GIST, Korea
- ORGN.P-286** Geminal Fluorocyclization of Benzil Derivatives Using Dealkylation-Resistant Phosphoramidite
Garam Yun, Ilju Jeong, Won-Jin Chung*
Department of Chemistry, GIST, Korea
- ORGN.P-287** Synthesis of α -Keto Geminal Halofluorides Enabled by a Rationally Designed Organophosphorus(III) Reagent
Hansol Cho, Ha Eun Kim^{1, *}, Mugeon Song, Ilju Jeong, Hyun Woo Kim, Jun-Ho Choi, Won-Jin Chung*
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- ORGN.P-288** Carbamoylation of Aryl/Benzyl Chlorides by Direct C-H Activation of Formamide Derivatives via Ni-Photoredox Catalyzed Cross-Coupling
Ji Hye Shin, Eunseo Sim, Sun Dongbang*
Department of Chemistry, Sogang University, Korea
- ORGN.P-289** Ni Catalyzed Reductive Cross Coupling of Acetals with Anhydrides and Vinyl Triflates via Single Electron C-O Activation
Junha Hwang, Eunbi Kim, Sun Dongbang*
Department of Chemistry, Sogang University, Korea
- ORGN.P-290** Asymmetric *Anti*-Aldol Reaction of Unsubstituted Cyclobutanone Utilizing Chiral *N*-Amino Cyclic Carbamate Auxiliary and Lanthanum Additive
Hayeong Jeon, Won-Jin Chung*
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MEDI.P-291 Biocompatible Strategy for Intracellular Polysulfide Generation
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MEDI.P-292 Evaluating Antibody H3 Loop Structures Using Graph Neural Networks
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MEDI.P-293 MotifPep: Deep Learning Molecular Interaction Motifs from Receptor Structure Alone and Its Application in Peptide Design
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MEDI.P-294 Effects of Batch and Continuous-Flow Microwave Assisted Process for the Decarboxylation of Cannabigerolic Acid in Hemp Extract
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MEDI.P-295 Dual-Selective Delivery of Protein Therapeutics by Fusion of pH-Responsive Cell-Penetrating Peptides and Receptor-Specific Affibody
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MEDI.P-296 Bone Regeneration Effects of BMP-2-Loaded Poly(lactic-co-glycolic acid) (PLGA) Microparticles with Enhanced Calcium-Binding Properties for Improved Bone Healing and

Reduced Ectopic Bone Formation in Spine Fusion
Minjae Kim, Yan Lee^{*}
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MEDI.P-297 Design and Synthesis of Isoniazid (INH) Derivatives for Effective Tuberculosis Therapy
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MEDI.P-298 Evaluation of Artemisia Gmelinii Extract in Enhancing Mucociliary Clearance of Diesel Particulate Matter in Respiratory Tract
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MEDI.P-299 Divergent Synthesis of Gut Microbiota-Derived Glycolipids for Investigating Host Immune Modulation
Sumin Son, Jesang Lee, Da-Jung Jung¹, Sungwhan F. Oh^{1, *}, Seung Bum Park^{*}
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MEDI.P-300 TWN-Lib: A Pre-Computed Water Network Library for Kinase Fragment-Based Drug Design
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MEDI.P-301 A Novel Artificial Nucleic-Acid Scaffold for Precise Target-Gene Binding

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MEDI.P-302 Development of "One-For-Three" Hypoxic
Photodynamic/Photothermal/Photoimmuno
Triple Synergistic Cancer Therapy Using
Conversion Method from Long-Wavelength
Absorbing Type II Photosensitizer to
Supramolecular Type I Photo

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MEDI.P-303 'Three-In-One' Multifunctional
Polyoxometalate(POM)-Based pH-Sensitive Ionic
Liquid-Type Photosensitizer-POM Complex for
PDT/PTT/Chemo Synergistic Cancer Therapy
System

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MEDI.P-304 Ru-Mediated Alkyne to Amide Synthesis for
DNA-Encoded Library

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MEDI.P-305 A Dual-Action Payload for ADCs: Targeting Both
Microtubules and Src

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MEDI.P-306 Development of a Potent STING Agonist for
Cancer Immunotherapy

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MEDI.P-307 Identification of an HDAC Inhibitor that
Enhances STING-Mediated Innate Immune
Responses

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MEDI.P-308 Harnessing Reactive Sulfur Species: Thiirane-
Based Strategy for Neuroprotection

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MEDI.P-309 Cannabiorcol as a Novel Inhibitor of the
p38/MSK-1 and NF- κ B/p65 Signaling Pathway,
Mitigating Matrix Metalloproteinase Expression.

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MEDI.P-310 Enhancing the Plasma Stability of Antibody-
Drug Conjugates via Self-Hydrolyzing Maleimide
Linkers

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Technology, Ajou University, Korea*

MEDI.P-311 Development of a Multistage Nanoplatform Using I-125-Labeled Au@Ag Nanoparticles Encapsulated in Cationic pH-Responsive Liposomes for Precision Intracellular Radiotherapy of Squamous Cell Carcinoma
Byeongchan Lee, Jun Young Lee, Taewan Kim, Tae-Hyun Kim, Jeong Hoon Park*
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MEDI.P-312 Engineering Click Chemistry-Based STRIC Technology for Immune-Modulating Antibody-Payload Conjugate
Bumro Lee, Minju Lee, Eunha Kim*
Department of Molecular Science and Technology, Ajou University, Korea

MEDI.P-313 Discovery of Urea-Based CB1R Selective Antagonists for Psoriasis Treatment
Yeonjeong Heo, Eunha Kim*
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MEDI.P-314 Development of a Platform Technology for Site-Specific Antibody-Drug Conjugation Based on Native Antibodies
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MEDI.P-315 Synthesis of Sphingosine Analogs for Visualizing COX-2 Overexpression in Brain
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MEDI.P-316 Multiplexed Live-Cell Imaging via pH-Modulated Fluorophore Switching and Bioorthogonal Chemistry
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MEDI.P-317 Synthesis and Evaluation of Chrysin Derivatives as Novel Anti-Inflammatory Agents

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MEDI.P-318 Neural Network Evaluator for Antibody-Antigen Complex Structure Prediction
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MEDI.P-319 Kinetic Tuning of pH-Responsive Degradation in Bicyclic α , β -Acid Amide Systems and Their Potential for Targeted Drug Delivery
Hyemin Hwang, Yan Lee*
Department of Chemistry, Seoul National University, Korea

MEDI.P-320 Full-Spike Molecular Analysis of SARS-CoV-2 Omicron Subvariants Reveals Key ACE2 Binding Mutations
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MEDI.P-321 Evaluating the Animal-To-Human Transmission Potential of HPAI H5N1 Viruses
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MEDI.P-322 Accessible Synthesis of Bis-Hydroxy-Trans-Cyclooctene (C2TCO) to Enable Enhanced Click-To-Release-Based Multicycle Imaging
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MEDI.P-323 Understanding Activity Differences of Kinase Inhibitors Using TWNs
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MEDI.P-324 Molecular Dynamics Study on the Effects of Vitamin C on the Collagen Triple Helix Stability
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- MEDI.P-325** TWN-Align: A Novel Molecular Alignment Method to Topological Water Networks
Re Gin Jeoung, Namsook Kang*
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- MEDI.P-326** Development of Novel Antimicrobial Agents for Nontuberculous Mycobacteria
Donghyon Koo, Hak Joong Kim*
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- MEDI.P-327** Discovery of a Novel Small Molecule Inhibitor of the cGAS–STING Pathway for Treatment of Autoimmune Diseases
Gayoung Kim, Ji Hoon Kwon, Jeong Yeon Yoo, Seung Bum Park*
Department of Chemistry, Seoul National University, Korea
- MEDI.P-328** GalaxyMol: Hierarchical Modeling of Biomolecules
Yubeen Kim, Seeun Kim, Byunghyun Bae, Jiho Sim, Nuri Jung, Hyeonsung Byeon, Wooyeop Jeong, Byoungwook Kim, Yooshin Kim, Hongsuk Kim, Gangeun Park, Sujin Park, Sumin Lee, Chaok Seok*
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- MEDI.P-329** Alpha 2c Adrenoceptor Antagonist as an Oxalamide Derivative Alleviated Depressive-Like Behaviors in a Maternal Separation Mouse Model
Geon Wan Roh, Kobeom Seo, Jae Yeol Lee*
Department of Chemistry, Kyung Hee University, Korea
- MEDI.P-330** Development of SARS-CoV-2 3CL Protease Inhibitors
Sujin Kim, Injae Shin*, Sikwang Seong^{1, *}
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Technology, Korea

- MEDI.P-331** MotifScreen: Revolutionizing Virtual Screening and Its Generalizability via Deep Learning of Interaction Patterns
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- MEDI.P-332** Toward Understanding GPCR Modulation through AI-Inferred Structural and Dynamic Insights
Hyeonsung Byeon, Hahnbeom Park^{1, *}, Chaok Seok*
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- MEDI.P-333** Ligand-Type Specific Binding Site Prediction Modeling
Hongsuk Kim, Hahnbeom Park^{1, *}, Chaok Seok*
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- MEDI.P-334** Patent Landscape Analysis on the Polymorphs of Pharmaceutical Compounds
Da-Eun Sung, Kicheul Lee*
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- MEDI.P-335** Geometric Context-Aware Molecular Representation Learning
Yooshin Kim, Byunghyun Bae, Hongsuk Kim, Byoungwook Kim, Yubeen Kim, Nuri Jung, Sujin Park, Seeun Kim, Jiho Sim, Sumin Lee, Hahnbeom Park¹, Chaok Seok*
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- MEDI.P-336** GalaxyCDock: Covalent Docking Webserver
Sumin Lee, Nuri Jung, Chaok Seok*
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- MEDI.P-337** Leveraging the Pupylation Pathway for Targeted Protein Degradation in Mycobacteria
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MEDI.P-338 Synthesis and Biological Evaluation of 5-HT₇ Receptor Ligands Featuring a 1,2-Diarylpiperazine Scaffold

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MEDI.P-339 Synthesis and Biological Evaluation of Biphenyl Derivatives Targeting 5-HT₇ Receptor

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MEDI.P-340 Engineering an Oxaliplatin and 5-Fluorouracil Double-Layer Suppository with PLGA Nanoparticles for Sustained Cancer Therapy

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MEDI.P-341 Polysaccharide Emulsion Gels of 5-Fluorouracil and Doxorubicin for Anti-Adhesion and Anti-Cancer

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MEDI.P-342 Preparation and Evaluation of Hydroxypropyl Methylcellulose-Based Film of Pyridostigmine Bromide

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MEDI.P-343 Ligand Design for Flexible Pockets Using Hierarchical Natures of 3D and 2D Structures and Their Interrelationships

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MEDI.P-344 Thiirane-Embedded Tamoxifen: Beyond Receptor Blockade

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MEDI.P-345 Design, Synthesis and Biological Evaluation of Carbazole Derivatives as 5-HT₇R Ligands

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MEDI.P-346 Application of Benzosultam-Based CRBN Ligands to Molecular Glue Degraders

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MEDI.P-347 Discovery of Therapeutic Agents for the Treatment of ALS by Inhibiting TDP-43 Proteinopathy

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MEDI.P-348 Development of Toll-Like Receptor 8 Selective Agonist for the Treatment of Hepatitis B Virus (HBV)

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MEDI.P-349 Discovery of New Antibiotics for Treatment of Nontuberculous Mycobacterial (NTM) Infection

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MEDI.P-350 Synthesis and Biological Evaluation of Pyrimidine Derivatives as Activators of PKM2 Tetramerization

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MEDI.P-351 Fibronectin-Coated Nanoliposomes with Heparin-Hemin for Enhanced Ulcerative Colitis Therapy

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MEDI.P-352 Studies on the Mechanism of Inhibition of Novel RIPK2 Hit Compounds

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MEDI.P-353 Predicting Metal Binding Sites and Types in Protein

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MEDI.P-354 Anti-Inflammatory Effect of KHMC-012 as a Novel Selective mPGES-1 Inhibitor in an Adjuvant-Induced Arthritis Rat Model

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MEDI.P-355 Development of Xanthoxol Derivatives as Cholinesterase Inhibitors

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MEDI.P-356 Structure-Based Optimization of Benzimidazole Scaffolds for Potent and Selective mPGES-1 Inhibitors

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MEDI.P-357 Improving T-cell Immunogenicity Prediction via Multi-Species Data and MHC Representation Strategies

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MEDI.P-358 Development of Non-Nucleoside Inhibitors of the NiRAN Domain of SARS-CoV-2

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MEDI.P-359 Exploration of β -Tubulin-Targeting Butein Derivatives as Tubulin Inhibitors for A549 Lung Cancer Treatment

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MAT.P-299

Reusable Underwater Anti-Oil-Fouling Filters
Designed for Efficient and Durable Oil/Water
Separation

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MAT.P-300

Simple and Versatile Production of Alginate
Capsules with Customizable Design

Seunghee Han, Won San Choi*

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MAT.P-301

Hierarchical Solar Evaporator with Reverse Piloti
Design for Extreme Brine Management

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MAT.P-302

Material Chemistry for Plastic Scintillators

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MAT.P-303

Hybrid Nanostructured Framework of 2H-MoS₂
and Covalent Organic Nanosheets Enabling
Superior Sodium-Ion Battery Capabilities

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MAT.P-304

Effect of Cobalt on the Oxide Layer Formation
on Carbon Steel in Hydrothermal Acidic
Condition

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MAT.P-305

Development of a Visible-Light-Responsive
Antibacterial Film via Embedding Erythrosine
Dye into a Porous Polysiloxane Matrix for
Efficient Singlet Oxygen Production

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MAT.P-306

Concentration-Induced Tunable Aggregate
Morphologies of Light Responsive Azo-Based
Pyrene Derivative

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MAT.P-307

Dynamic Birefringence and Chirality of
Magnetically Controllable Assemblies of
Anisotropic Plasmonic Nanoparticles

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MAT.P-308

Synthesis of Hexakis(1-
methylimidazole)copper(II) Chloride and
Hexakis(1-methylimidazole)zinc(II) Chloride and
Evaluation of Their Termite Insecticidal
Effectiveness

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MAT.P-309

Synthesis of Hexakis(1-
methylimidazole)copper(II) Salicylate and
Hexakis(1-methylimidazole)zinc(II) Salicylate and
Evaluation of Their Insecticidal Activity Against
Termites

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MAT.P-310

Impact of Solvent Polarity and Self-Assembly on
Photoisomerization of Azo-BODIPY Compounds

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MAT.P-311 Design of Photoswitchable Fluorescent Spheres and Their Light Wavelength Dependence
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MAT.P-312 Synthesis of Copper(II) Coordination Compounds Containing 4-Methylimidazole and Evaluation of Their Termite Repellency
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MAT.P-313 Development of Diphenyl Stabilized Triple-Tin Based Oxo Cluster Photoresist for High Resolution Electron Beam Lithography
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MAT.P-314 Improving Intrinsic Properties of Silver Nanowires through Spontaneous Ligand Exchange

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MAT.P-315 Reaction of Several Imidazole Derivatives with Copper(II) Hydrogen Phthalate and Evaluation of the Insecticidal Effect of the Products Against Termites

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MAT.P-316 Cu-Substituted ZnIn₂S₄ Photocatalysts for Efficient H₂O₂ Generation

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MAT.P-317 Enhancing the Oxygen Evolution Reaction Performance of NiFe Hydroxide through Anion Substitution

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MAT.P-318 Chemical Screening-Guided Design Rules for Highly Efficient Metal Oxides Exhibiting High Catalytic Activity

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MAT.P-319 Optimizing the Interlayer Spacing and Electronic Structure of MoS₂ to Enhance the Hydrogen Evolution Reaction

Woojin Noh, Xiaoyan Jin*
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MAT.P-320 Density Functional Theory Studies on Design Strategies for Oxygen Evolution Reaction Catalysts: Approaches Based on Noble and Non-Noble Metals

Hee Jung Kwon, Minho Kim*
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MAT.P-321 A Structurally Flexible Mg(II) Metal–Organic Framework Exhibiting Single-Crystal-to-Single-Crystal [2+2] Photocycloaddition

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MAT.P-322 Novel Single-Nozzle 3D Bioprinting for Gradient Hydrogel Fabrication in Tissue Engineering

Sreynith Seng, Sarath Kin, Nayoun Kim, Kwanwoo Shin*

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MAT.P-323 A Metal-Organic Framework Functionalized with Phosphinic Acid, MIL-101-PO₂H₂: Remarkable Adsorbent to Selectively Remove Cationic Dyes from Water

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MAT.P-324 From Black Pigment to Green Energy: Shedding Light on Melanin Electrochemistry in Dye-Sensitized Solar Cells.

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MAT.P-325 Binder-Free and Current Collector-Free Lithium-Sulfur Battery *via* Langmuir-Blodgett Assembly

Seoyoung Yoon, Geonho Kim, Jiwon Kim^{1,*}

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MAT.P-326 Hybrid Materials Containing Co Species Dispersed on Carbonized Frameworks and their Electrocatalytic Properties for O₂ Reduction

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MAT.P-327 Surface Functionalization of SnO₂ Nanospheres with APTES for Bioconjugation and X-ray Imaging Applications

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MAT.P-328 Tollens' Reagent-Assisted Silver Incorporation on Three-Dimensional Porous Carbon Nitride and their Photocatalytic Properties

Bogyeong Kim, Sungjin Park*

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MAT.P-329 Adsorptive Removal of Atenolol and Diphenhydramine from Water with Polyaniline-Derived Carbon, Treated with Nitric Acid under Microwaves

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MAT.P-330 Hollow Spherical Mn₃O₄/Reduced Graphene Oxide Hybrid as an Anode Material for High-Performance Lithium-Ion Batteries

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MAT.P-331 Molecular Simulations of Flexible Framework Structure for Understanding Methane Adsorption in Porous Aromatic Frameworks

Yu Chen, Taek-Gi Lee, Yongchul Chung^{1,*}

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MAT.P-332 High-Refractive-Index ZrO₂ Nanocomposite Films with Micro-Pyramidal Structures for Enhanced Light Diffusion

Dayeon Kim, Ilsun Yoon*

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MAT.P-333 Enhancing Hydrogen Storage Capacity in MIL-100 through Tetravalent/Divalent Metal Node Design : Tailored Force Field Molecular Simulation Study

Taek-Gi Lee, Yu Chen, Yongchul Chung^{1,*}

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MAT.P-334 Hierarchical Hollow Titanoniobate/Reduced Graphene Oxide Nanostructured Composite Derived from 2D Nanosheets for Ultrafast Lithium-Ion Storage

Hee-Jun Park, Seung-Min Paek*
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MAT.P-335 Metal-Decorated Holey Tungsten Nitride Nanosheets as Efficient Electrocatalysts for Nitrate Reduction

Dong Hoon Sun, Seong-Ju Hwang*
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MAT.P-336 Predicting Hydrogen Uptake in Metal–Organic Frameworks Using a Generalizable Machine-Learned Potential

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MAT.P-337 Preparation and Electrocatalytic Oxygen Reduction Properties of P-Doped Reduced Graphene Oxide

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MAT.P-338 Hollow Silicon Suboxide/Carbon Composite Anode with Long-Term Cycling Stability for Lithium-Ion Batteries

Jimin Kim, Seung-Min Paek*
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MAT.P-339 A Structure-Based Ionic Conductivity Prediction Model for Solid-State Battery Electrolytes

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MAT.P-340 Enhancing Crystal Structure Validation via Interpretable Large Language Model-Driven Error Analysis

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MAT.P-341 Enhancing Alkaline HER via Complementary Roles of Ni and Pt Active Sites in Pt–Ni Alloys

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MAT.P-342 Solvent-Driven Control of Nucleation Behavior in CsPbBr₃/GO Nanocomposites

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MAT.P-343 Microstrain Relaxation through Halide Composition Control in Zero-Dimensional Chiral Bismuth Perovskites with Enhanced Spin Selectivity

Daseul Lee, Sang Hyun Nam, Young-Hoon Kim*
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MAT.P-344 Redesigned Calcium Phosphate Nanoparticles for in Vivo Imaging and Drug Delivery

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MAT.P-345 Coordination-Tailored Ligand Passivation for Crystallinity and Defect Control in Perovskite Quantum Dot

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MAT.P-346 Synthesis of Calcium Imidazolium Phytates and

Evaluation of Their Insecticidal Activity Against Termites

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MAT.P-347

Thiol-yne Click Photopolymerization Strategy for High Stability and Patternable CsPbBr₃ Quantum Dot-Polymer Films

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MAT.P-348

Enhancing Calcium Ion Extraction from Recycled Concrete Aggregate using Some Aromatic Carboxylic Acids

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MAT.P-349

Dual-Stabilization of Perovskite Quantum Dots via Nanoconfined In-situ Growth in ZIF-8 with Ionic Ligand Passivation

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MAT.P-350

The Effect of Amine-Based Additives on Calcium Ion Extraction and Carbonation Behavior of Recycled Concrete Aggregate (RCA)

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MAT.P-351

Development of a Termite Repellent and Insecticide Using 4-Methylimidazole, Zinc Ion, and Phthalic Acid

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MAT.P-352

Ruthenium-Rare-Earth Oxides as Efficient Electrocatalysts for Acidic Oxygen Evolution Reaction

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MAT.P-353

Intrinsic Activity Trend of Conductive Oxide Supported Atomically Dispersed Catalysts for Selective Chlorine Evolution

Guan Young Kim, Jinjong Kim, Sang Hoon Joo*
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MAT.P-354

Defective Nanohybrids of Holey TiN-Ru Metal Nanosheets with Improved Electrocatalyst Performance

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MAT.P-355

Sr-Assisted Enhancement of the Electrocatalytic Activity of Amorphous RuO₂ Nanosheets

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MAT.P-356

Mesoporous Pt-Based Ternary Intermetallic Catalysts for Enhancing the Activity and Stability of Oxygen Reduction Reaction

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MAT.P-357

Subcellular Organelle Enrichment and Delivery Using Multi-Modal Nanocomposites Synthesis via Self-Ureido Formation

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MAT.P-358 Nanoconfinement-Enabled Preparation of Ultrahigh-Loading Platinum-Based Intermetallic Nanoparticles for Efficient Oxygen Reduction Reaction

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MAT.P-359 Phase Transition and Luminescence Tuning in Cu–Ag Mixed Halide Single Crystals

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MAT.P-360 Highly Water-Stable Organic–Inorganic Halide Perovskitoid Single Crystal with Strong UV Photoresponse for Efficient Methyl Orange Photocatalytic Degradation

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MAT.P-361 Enhancing Photoluminescence Quantum Yield and Stability of Sonochemically Synthesized CsPbI₃ Perovskite Quantum Dots by Polar Solvent Washing

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MAT.P-362 Acceleration of Triplet-State Photochemistry by Magnetically Doped Colloidal Quantum Dots

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MAT.P-363 Exchange Interaction-Driven Optical Properties of Rare Earth Doped Colloidal Perovskite Quantum Dots

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MAT.P-364 Controlled Growth of Two-Dimensional ReSe₂ Quantum Dots via Magic-Sized Nanoclusters

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MAT.P-365 Intramolecular Double Activation by Biligands Sharing a Single Metal Atom for Preferred Two-Electron Oxygen Reduction

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MAT.P-366 Machine Learning-Assisted Design of Cathode Materials for Lithium–Sulfur Batteries Derived from a Metal–Organic Framework

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MAT.P-367 Auger Up-Conversion in Rare-Earth-Doped InAs Quantum Dots

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MAT.P-368 Effect of Catalysts and Promoters on the Growth of Single-Walled Carbon Nanotubes

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MAT.P-369 CVD Synthesis of B,N Co-Doped Single-layered Graphene : Structural Characterization and Device Applications

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MAT.P-370 Active Optical Modulation via Conductive Polymer Integrated Resonators

Lynn Lee, Jerome Hyun^{*}
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MAT.P-371 Effect of Metal Catalysts on Growth Kinetics of Vertically Aligned Carbon Nanotubes Synthesized by CVD

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MAT.P-372

Sulfur-Promoted CVD Growth of SWCNT Forests

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MAT.P-373

CVD Growth of Boron Nitride Nanotubes Using
Controlled Alloy Catalysts

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MAT.P-374

Support Morphology Effect on the Catalytic
Performance for Strecker Reactions

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MAT.P-375

Dynamic Formation of Copper Nanoclusters by
Reversible Metal Electrodeposition

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MAT.P-376

Study on Enhanced Robustness against X-ray
Radiation Damage during CO₂ Adsorption of
Zeolite Microcrystals

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MAT.P-377

Oxygen Vacancies Effect on NiMoO₄ as a
Bifunctional Catalyst in Li-S Battery

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MAT.P-378

Encapsulation of Noble Metals in Boron Nitride
Nanotubes: Synthesis, Characterization, and
SERS Applications

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MAT.P-379

Enhanced Methane Adsorption Performance via
Pyrolyzed AC-MOF Core-Shell Structures

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MAT.P-380

Optimization of TiO₂ Nanowire Light-Scattering
Layers via Hydrothermal Synthesis

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MAT.P-381

High-Performance HKUST-1-Based Filter for
Toluene Adsorptive Removal

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MAT.P-382

DFT Insights into Alkaline Hydrogen Evolution
Activity of NiFe-Based Electrocatalysts

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MAT.P-383

Surface Chemistry-Engineered Quantum Dots
for Direct Cytosolic Delivery

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MAT.P-384

Synthesis of Less Toxic Near-Infrared Emitting
Semiconductor Nanoparticles Bioimaging
Applications Thereof

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MAT.P-385

High-Performance NIR Organic Photodetectors
Achieved by Optimizing Bulk Heterojunctions

with Surface Property Enhancement and Dark Current Suppression

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MAT.P-386 Fine Tuning of ESIPT Emission in Phenolic Imidazo[1,2-*a*]pyridines through Basicity-Controlled Intramolecular Hydrogen Bonding
Seung Mee Baik, Seung Woo Lee, Jong Hyeon Lee*, Byeong-Kwan An*
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MAT.P-387 Enhancement of V^{3+}/V^{2+} Redox Activity by Homogeneously Dispersed TiO_2 Nanoparticles Modified Electrode
Mutembei Mutuma, Hyun Jung*
Department of Chemistry, Dongguk University, Korea

MAT.P-388 Synthesis and Characterization of Bimetallic Nickel Cobalt Oxides Incorporated Mesoporous Graphene Nanohybrid
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MAT.P-389 Hydrothermal Phase Transition of δ - MnO_2 to Mn_3O_4 Anchored on Mesoporous Graphene for Enhanced Supercapacitive Performance
Kiruthiga Thangasami, Hyun Jung*
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MAT.P-390 Synthesis and Characterization of 3D Mesoporous Graphene Decorated with Magnetite Iron Nanoparticles
Goga Bebia, Hyun Jung*
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MAT.P-391 Morphology Control of Self-Assembled Au Nanocluster Sheets through Solvent-Ligand Interactions
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MAT.P-392 Tailoring the Stability and Activity of Single-Atom Catalysts via 2D Nanosheet Supports
Heesu Kim, Joohyun Lim*
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MAT.P-393 Cation-Induced Interlayer Structure Control of Ti_3C_2 MXene for Enhanced Structural Stability and Electrochemical Performance
Hyerim Kim, Joohyun Lim^{1, *}
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MAT.P-394 Hybrid Polyion Nanocomplexes for the Delivery of Biological Macromolecules and Enzyme-Like Catalytic Applications
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MAT.P-395 Three-Electrode Study on the Electrochemical Behavior of Manganese Oxide Cathodes in Aqueous Zinc-Ion Batteries
Sungbin Jo, Chung-Yul Yoo*
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MAT.P-396 Impact of Electrode Configuration on K-Birnessite Cathodes for Aqueous Zinc-Ion Batteries
Seyeon Oh, Chung-Yul Yoo*
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MAT.P-397 PdCu Bimetallene Engineered via Dealloying for Overall Water Splitting
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MAT.P-398 Developing Anthracene-Phenanthroimidazole-Based Hybridized Local and Charge Transfer Materials with Multiple Channels for Triplet Exciton Harvesting
Jina Lee, Won-Sik Han*

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- MAT.P-399** Dual Exciton Management and Electron Recycling in Stable Blue Fluorescent Pyrene-Based Organic Light-Emitting Diodes via Hybridized Local- and Charge- Transfer and Triplet-Triplet Fusion.
Heejun Nam, Won-Sik Han*
Department of Chemistry, Seoul Women's University, Korea
- MAT.P-400** NaCl Microporogen-Assisted Synthesis of Hollow Microporous Organic Polymers Bearing Zn-Salophens for Enhanced Biomass-To-Biodiesel Conversion
Jong Doo Lee, Seung Uk Son*
Department of Chemistry, Sungkyunkwan University, Korea
- MAT.P-401** SWIR Ag₂Te Quantum Dots Synthesis at Room Temperature
Beomsu Cho, Jin Hyeok Lee, Kwang Seob Jeong*
Department of Chemistry, Korea University, Korea
- MAT.P-402** Theoretical Insights into the Role of Ru Doping in Trirutile CoSb₂O₆ for Enhancing Oxygen Evolution Reaction Catalysis
Sungjae Kwon, Minho Kim*
Department of Applied Chemistry, Kyung Hee University, Korea
- MAT.P-403** Excitonic Intraband Transition and Quantum Plasmon Resonance of Ag₂Se Nanocrystals Depending on the Crystal Structure
Haemin Song, Jin Hyeok Lee, So Young Eom, Kwang Seob Jeong*
Department of Chemistry, Korea University, Korea
- MAT.P-404** Tunable Intraband Absorption of Ag₂Se Colloidal Quantum Dots from MWIR to VLWIR Region
Si Yu Kim, Jin Hyeok Lee, Haemin Song, Youbin Ahn, Kwang Seob Jeong*
Department of Chemistry, Korea University, Korea
- MAT.P-405** Revealing Self-Doped Nature of Cd_xAg_ySe

Quantum Dots Under Cation Exchange Control
Jin Hyeok Lee, So Young Eom, Haemin Song, Soeun Jeon, Si Yu Kim, Kwang Seob Jeong*
Department of Chemistry, Korea University, Korea

- MAT.P-406** Dexamethasone Intercalated Layered Double Hydroxide Nanocarrier for Improved Therapeutic Efficacy
Sieun Park, Jin-Ho Choy*, Goeun Choi*
Department of Chemistry, Dankook University, Korea
- MAT.P-407** Stabilized Caffeic Acid-Layered Double Hydroxides for Broad-Spectrum UV Protection
Dahye Seo, Jin-Ho Choy*, Goeun Choi*
Department of Chemistry, Dankook University, Korea
- MAT.P-408** Montmorillonite-Niclosamide Nanohybrids for Enhanced Bioavailability via Solubility Improvement
Seungjin Yu, Sanoj Rejinold Nirichan, Jin-Ho Choy*, Goeun Choi*
Department of Chemistry, Dankook University, Korea
- MAT.P-409** Further Enhanced Photoluminescence of Extended SWIR Ag₂Te Colloidal Quantum Dot Core/Shell
Soeun Jeon, Jin Hyeok Lee, Kwang Seob Jeong*
Department of Chemistry, Korea University, Korea

ELEC.P-360 Morphology-Controlled Bi-MOFs via Rapid Solvothermal Synthesis as Anode Materials for Enhanced Potassium-Ion Storage

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ELEC.P-361 Charge-Dependent Electrochemical Selectivity of Polyelectrolyte Hydrogels for Redox Reactions

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ELEC.P-362 Fabrication of Pt-Deposited NiFe LDH Bifunctional Electrocatalysts for Reversible HER and OER in AEMWE Systems

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ELEC.P-363 Phase Engineering of Cobalt-Based Catalysts for Active Oxygen Evolution Reaction in Anion Exchange Membrane Water Electrolysis.

Jeonghun Kim, Woong Choi^{*}

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ELEC.P-364 Nonflammable Solvent-in-Salt Eutectic Electrolyte for Wide-Temperature Lithium Metal Batteries

Yaejin Kim, Hochun Lee^{*}

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ELEC.P-365 Enhanced Efficiency of CO₂ Electroreduction by Formate Dehydrogenase Immobilized on Amino-Functionalized Mesoporous Silica.

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ELEC.P-366 Energy Conversion at Hydrogel-Electrode Interfaces through Mechanical Deformation

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ELEC.P-367 Efficient Electrode Design Strategy with Reduced Cobalt Consumption toward Oxygen Evolution Reaction

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ELEC.P-368 Uniform Sodium Deposition in Anode-Free Sodium Batteries via Electrolyte Engineering

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ELEC.P-369 Anion-Driven Hydrogen Pathways for Tuning Nitrate Electroreduction Selectivity toward Ammonia: Insights from In-Situ Raman Spectroscopy

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ELEC.P-370 Bidirectional Wastewater Treatment via Plasmonic Ammonia Electrooxidation and 2e⁻ Oxygen Reduction in a Zn-O₂ Battery

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ELEC.P-371 Mo-Intercalated LDH Hybrids for Electrocatalytic Ammonia Synthesis and Water Splitting

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ELEC.P-372 Electrodeposited CoSe Nanostructures on Nickel Foam and Carbon Cloth for Water Splitting

Jangwoo Shin, Jun Ho Shim*

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ELEC.P-373 Analysis of Resistance Component Contributions at Low Temperature

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ELEC.P-374 Charge-Selective Redox Diodes from Polyelectrolyte Hydrogels

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ELEC.P-375 Lithium-Ion Conduction through the Frozen Phase of Organic Electrolytes for Lithium Batteries

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ELEC.P-376 Sodium Fluoride-Coated Separators for Enhanced Interfacial Stability in Lithium Metal Batteries

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ELEC.P-377 Selective Micro-Patterning of Conducting Polymers on Hematite Using Light-Addressable Electrochemistry

Onyu Bang, Joohoon Kim*

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ELEC.P-378 An Electrochemical Detection of Environmentally Toxic Molecules with Carbon-Based Nanocomposites.

Seongyeop Kim, Chelladurai Karuppiah*, Hye Jin Lee*

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ELEC.P-379 Electrochemical Properties of FeOF Nanocomposite Wrapped by Graphite Carbon as Cathode Material for Potassium-Ion Batteries

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ELEC.P-380 Electrochemical Sensor Based on Ag Nanocomposites for Biomarker Analysis

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ELEC.P-381 Site-Specific Nitrogen Chemistry in Nitrogen-Doped Reduced Graphene Oxide Hydrogel Enables Pathway 4-Nitrophenol Sensing

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ELEC.P-382 Inhibition of Oxygen Dimerization by Interfacial Oxygen Anchored Gel Polymer Electrolyte for High Voltage Li-Ion Batteries

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ELEC.P-383 Surface Property-Dependent Ion Transport and Charge Storage in Nanoporous Electrodes

Hyo Chan Lee, Hyun Ju Yang, Junhee Yu, Sunyeong Hong, Je Hyun Bae*

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- ELEC.P-384** A Lithiophilic Ceramic-Coated Separator as a Protective Layer for Advanced Lithium Metal Batteries
Ghun Kim, Hochun Lee*
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- ELEC.P-385** Selection Criteria for Co-Solvents in Ionic Liquid Electrolytes for Safe, and High-Energy-Density Li & Na Metal Batteries
Sewon Eom, Hochun Lee*
Department of Energy Science and Engineering, DGIST, Korea
- ELEC.P-386** Electrochemical Mechanism Studies on Atomically Dispersed Metal-N4 site in Metalloporphyrin via EC-STM
Deok Kyu Na, Jeong Young Park*
Department of Chemistry, KAIST, Korea
- ELEC.P-387** Investigating Plasmonic Hot Carrier Transfer on Antenna-Reactor Au@Pd Nanoparticles in the Photoelectrochemical Oxygen Evolution Reaction
Hyewon Park, Jeong Young Park*
Department of Chemistry, KAIST, Korea
- ELEC.P-388** Operando Scanning Electrochemical Microscopy Reveals Facet-Dependent Structure-Selectivity Relationship for CO₂ Reduction on Gold Surfaces
Yunwoo Nam, Sung Eun Cho, Hyun Seo Ahn*
Department of Chemistry, Yonsei University, Korea
- ELEC.P-389** Correlation Between Crystallization of Amorphous IrOx and Catalytic Performance for Oxygen Evolution Reaction in Acidic Media
Byung-Guk Kang, Hyeok Mun, Jeong-Seo Lee, Bong Kyun Kang^{1, *}
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¹Department of Display Materials Engineering, Soonchunhyang University, Korea
- ELEC.P-390** A Bifunctional Electrocatalyst of Bimetallic Hydroxide-Based Nanocomposite for Sensor and Supercapacitor Applications
Venkatachalam Vinothkumar, Tae Hyun Kim*
Department of Chemistry, Soonchunhyang University, Korea
- ELEC.P-391** A Manufacturing System for Cobalt Hydroxide and a Synthesis Method for Cobalt Oxide-Based Catalysts
Dongwon Kim, Ki Min Nam*
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- ELEC.P-392** Nanocube-Structured LaNiO₃ Perovskites with Tunable Porosity for High-Performance Oxygen Evolution Reaction Catalysis
Hyeok Mun, Jeong-Seo Lee, Byung-Guk Kang, Bong Kyun Kang^{1, *}
Department of Electronic Materials, Devices, and Equipment Engineering, Soonchunhyang University, Korea
¹Department of Display Materials Engineering, Soonchunhyang University, Korea
- ELEC.P-393** Stabilizing Metastable 1T MoS₂ via Electrochemical Proton Intercalation for Hydrogen Evolution Reaction
Jyoti Badiger, Soon Hyung Kang^{1, *}
Department of Chemical Engineering, Chonnam National University, Korea
¹Department of Chemical Education, Chonnam National University, Korea
- ELEC.P-394** SEI Structures Dependent Li-Morphology Characterized by Cryo-TEM
Yonggoon Jeon
Department of Physics & Chemistry, Korea Military Academy, Korea
- ELEC.P-395** Durable Planar P-Si Photocathode via TMN Materials for Photoelectrochemical HER
Suzan Sayed, Soon Hyung Kang^{1, *}
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¹Department of Chemical Education, Chonnam National University, Korea
- ELEC.P-396** Bias-Free Dye-Sensitized Photoelectrochemical Cells with Anodic Valorization Mediated by ABNO in Acidic Conditions
Eunyeong Song, Sung Jun Lim, Tae-Hyuk Kwon*
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ELEC.P-397 Photocatalytic Hydrogen Evolution Using Water-Stable Lead-Free 2D Tin Halide Perovskites in Aqueous Electrolyte

Juwon Jang, Seog Joon Yoon*
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ELEC.P-398 Controlling Phase Segregation in Mixed-Halide Perovskite Photoactive Layer for Photoconversion Device Application

Byeongsung Kim, Seog Joon Yoon*
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ELEC.P-399 MAyCs1-yPbX3 Perovskites in Silica Matrix via One-Pot Synthesis Routes: Tunable Bandgap for White Emission and Photocatalytic Applications

Yoongyo Kim, Seog Joon Yoon*
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ELEC.P-400 ZrCl₄-Doped Li₇P₃S₁₁: Boosting Conductivity and Air Stability for High-Performance ASSBs

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ELEC.P-401 Multimodal Analysis of a Flame-Retardant Inorganic Binder toward Enhanced Thermal Stability in EV Batteries

Yoonji Kim, Darae Kim, Byung-Kwon Kim*
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ELEC.P-402 Core Structure-Dependent Photoelectrochemistry of Ultrasmall Gold Nanoclusters on TiO₂

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ELEC.P-403 In Situ Mechanistic Study of Acidic Oxygen Evolution Reaction on Iridium Oxides via Surface Interrogation Scanning Electrochemical Microscopy

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ELEC.P-404 Mass Transport Enhanced Ir Nanodendrites for High Current Density PEM Water Electrolysis

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ELEC.P-405 Exploring Metastable fcc-Ru via Surface-Heated Electrodeposition of Faceted Nanoseeds for Electrocatalytic Applications

Taeyeon Kang, Hyun Seo Ahn*
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ELEC.P-406 Enhancement of Lithium-Air Battery Performance through LiOH Formation and SECM Analysis.

Hae-Sung Oh, Hyun Seo Ahn*
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ELEC.P-407 Detection of Intracellular Reactive Oxygen and Nitrogen Species in Living Cells by Scanning Electrochemical Microscopy (SECM)

Jong Won Kim, Hyun Seo Ahn*
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ELEC.P-408 Precise Control of Metal Phosphide Nanostructures via Surface-Heated Electrochemical Synthesis

Hyokyum Ahn, Hyun Seo Ahn*
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ELEC.P-409 Electrochemical Real-Time Detection of Hydrogen Peroxide as an Inversely Proportional Mark of Photogenerated Singlet Oxygen

Geonwoo Park, Hyun Seo Ahn*
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ELEC.P-410 Mesoporous Anatase TiO₂ Spheres via Sol-Gel/Solvothermal Route as Robust Supports for Low-Loading Noble Metal Catalysts

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ELEC.P-411

Sustainable Nitrogen Cycle Management
through Selective Electrochemical Ammonia
Oxidation

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ELEC.P-412

WSe₂ and Co-WSe₂ Functionalization of PANi-
Coated BNNT for High-Performance Asymmetric
Supercapacitor Electrodes

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ELEC.P-413

Operando TEM Probing of CuO Reduction
Mechanism during CO₂ Electrolysis

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Zheng^{2,*}, Woong Choi^{3,*}

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ELEC.P-414

Cubic Cu₂O-Decorated B-Doped g-C₃N₄
Nanosheets for Ultrasensitive Electrochemical
Detection of Metol

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EDU.P-410

A Comparative Analysis of Question Patterns in Collaborative Learning According to the Use of Generative AI by Science High School Students
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EDU.P-411

Development of a Pre-service Chemistry Teacher Education Program for Sensemaking in Process of Modeling Using Generative Artificial Intelligence
Jaehyeok Lee, Najin Jeong, Seounghey Paik*
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EDU.P-412

The Effect of Argument-Based Inquiry Science Classes Incorporating Feedback Activities on the Feedback Literacy of Science High School Students
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EDU.P-413

Integrated Science Teachers' Perceptual and Instructional Changes Following the Introduction of the Integrated CSAT
Gyuhoo Park, Minjung Kim, Taehee Kim, Jeonghee Nam*
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EDU.P-414

Development and Utilization of AI-Based Basic Experimental Simulation for Middle School Chemistry Education
Jaewoo Bak, Wanhui Kim, Byeong-Seon Kim*
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EDU.P-415

Curriculum and Textbook Analysis of Organic Chemistry in South and North Korea
Eunsong Baek, Yuna Shin, Heesook Yoon*

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EDU.P-416

Teacher Professional Development (TPD) through a Convergence Program Model: Implications for Pre-service Teacher Education
Ju Ran Shin, Hyunju Park*
Department of Chemical Education, Chosun University, Korea

EDU.P-417

The Role of Presentation-Based Instruction on National Strategic Technologies in Enhancing Science Education
Geun Young Jin, Eunyoung Kang
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EDU.P-418

Students' Scientific Attitudes in Science Inquiry Class Emphasizing Observation, Communication and Self Reflection
Hwajin Song, Wonho Choi*
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EDU.P-419

Development and Utilization of AI-Based Advanced Experimental Simulation for High School Chemistry Education
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EDU.P-420

Exploring Daily Time Adjustment and Utilization in Gifted Elementary Science Students through Hypothetical Questioning
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EDU.P-421

Difficulties in Inquiry Activities of Middle School Science Gifted Students
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An Analysis of Trends in Chemistry Education Research in Japan (1): A Study Based on Proceedings from the Annual Meetings of the Chemical Society of Japan Over the Past Two Years

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A Comparative Analysis of the Partially Revised Japanese Elementary Science Textbooks (2)

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Functional Group Presentation in High School Chemistry Textbooks under the 2022 Revised National Curriculum

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Dao, Duytung	POLY.P-46	Go, Wonji	PHYS.P-27	Ha, Yoonhoo	PHYS2-6
Desale, Pradeep Prakash	ORGN.P-248	Goh, Nuoming	ORGN.P-241	Hahm, Sungeun	ORGN.P-173
Dharmaraj, Varatharajan	MAT.P-397	Golla, Murali	INOR.O-4	Ham, Jeong-Im	ORGN.P-248
Do, Jung Yun	ORGN.P-182	Gong, Jintaek	EDU.P-427	Ham, Ji-Hwan	ENVR.P-423
Do, Yeongsu	PHYS.P-169	Gong, Jintaek	EDU.P-424	Ham, Ji-Hwan	ENVR.P-422
Do, Young Rag	INOR.P-119	Gong, Jintaek	ANAL.P-234	Ham, Ji-Hwan	ENVR.P-419
Do, Young Rag	INOR.P-117	Govindasamy, Ramar	PHYS.P-74	Ham, Subin	ORGN.P-273
Do, Young Rag	INOR.P-126	Gudaghe, Vishal	ORGN.P-216	Han, Dayae	PHYS.P-142

Han, Eunha	POLY.P-42	Heo, Yeonjeong	MEDI.O-2	Hong, Seung-Tae	MAT3-1
Han, Hogyu	ORGN.P-281	Heo, Yeonjeong	MEDI.P-313	Hong, Seung-Tae	MAT1-5
Han, Hogyu	ORGN.P-282	Heo, Yoonji	ORGN.P-235	Hong, Seungwoo	PHYS.P-20
Han, Jaebeom	PHYS.P-198	Heo, Youbin	INOR.P-104	Hong, Seungwoo	INOR.P-105
Han, Jihoon	EDU.P-426	Heo, Yubin	MAT.P-371	Hong, Seungwoo	INOR.P-109
Han, Jihun	INOR.P-145	Hong, Chang Seop	INOR.P-148	Hong, Seungwoo	INOR.P-131
Han, Jiyeon	LIFE.P-273	Hong, Dabeen	INOR.P-56	Hong, Seungwoo	INOR.P-133
Han, Jiyeon	INOR.P-106	Hong, Dabeen	INOR.P-116	Hong, Seungwoo	INOR.P-144
Han, Jiyeon	INOR1-5	Hong, In Seok	ORGN.P-172	Hong, Seyi	ORGN.P-235
Han, Jiyeong	MAT.P-362	Hong, In Seok	ORGN.P-173	Hong, Soon Hyeok	INOR3-1
Han, Min Su	ORGN.P-278	Hong, In Seok	ORGN.P-174	Hong, Soon Hyeok	POLY.P-26
Han, Mina	MAT.P-306	Hong, In Seok	ORGN.P-175	Hong, Soon Hyeok	ORGN.P-198
Han, Mina	MAT.P-310	Hong, In Seok	ORGN.P-176	Hong, Soon Hyeok	ORGN.P-236
Han, Mina	MAT.P-311	Hong, In Seok	EDU-1	Hong, Sukwon	KCS2-2
Han, Ri	MEDI.O-6	Hong, In Seok	MEDI.P-301	Hong, Sung You	ORGN2+INOR2-1
Han, Sangho	INOR.P-53	Hong, In Seok	EDU-2	Hong, Sungwoo	ORGN.P-231
Han, Seojung	MEDI.O-3	Hong, Jai	ANAL.P-243	Hong, Sungwoo	KCS2-3
Han, Seojung	ORGN.P-284	Hong, Janghee	PHYS.P-150	Hong, Sunyeong	ELEC.P-383
Han, Seokin	ORGN.P-207	Hong, Jeongyeon	ORGN.P-261	Hong, Sunyeong	ANAL.P-222
Han, Seunghee	MAT.P-300	Hong, Jieun	IND.P-4	Hong, Sunyeong	ANAL.P-221
Han, Seung-Min	ELEC.P-412	Hong, Jinwon	MEDI.P-359	Hong, Sunyeong	ANAL.P-220
Han, Sumin	ORGN.P-227	Hong, Ju-Hee	EDU.P-425	Hong, Sunyeong	ANAL2.O-13
Han, Won-Sik	MAT.P-398	Hong, Jungwoo	ORGN.P-272	Hong, Victor Sukbong	MEDI.P-352
Han, Won-Sik	MAT.P-399	Hong, Junki	ORGN.P-265	Hong, Yi-Hyun	EDU.P-425
Han, Yeseul	PHYS2.O-3	Hong, Juyeon	ORGN.O-4	Horbatenko, Yevhen	PHYS.P-96
Han, Yujin	MEDI.P-305	Hong, Juyeon	ORGN.P-279	Huh, Joonsuk	KCS6-2
Han, Yunkyoung	INOR.P-151	Hong, Seong Hun	ANAL1.O-11	Huh, Joonsuk	ORGN.O-6
Hassan, Muhammad	PHYS.P-66	Hong, Seong Hun	ANAL.P-236	Huh, Kang Moo	POLY.P-47
Heo, Jungseok	INOR.P-123	Hong, Seongmin	INOR.P-130	Hur, Yongseok	POLY.P-36
Heo, Jungseok	INOR.P-124	Hong, Seonki	POLY.P-35	Hwang, Byeonghyeon	PHYS.P-171
Heo, Jungseok	INOR.P-125	Hong, Seonki	POLY.P-37	Hwang, Byungjin	LIFE2-1
Heo, Yejin	INOR.P-92	Hong, Seung Youn	ORGN2+INOR2-5	Hwang, Do-Hoon	POLY.P-11

Hwang, Do-Hoon	POLY.P-1	Hwang, Yunha	INOR.P-63	Jang, Hongje	INOR.P-104
Hwang, Geum-Sook	ANAL.P-204	Hyeon, Taeghwan	KCS3-2	Jang, Hyeonji	INOR.P-114
Hwang, Geum-Sook	ANAL2.O-1	Hyun, Jerome	MAT.P-307	Jang, Hyeonsoo	IND.P-3
Hwang, Geum-Sook	ANAL2.O-3	Hyun, Jerome	MAT.P-370	Jang, Hye-Young	POLY.O-2
Hwang, Geum-Sook	ANAL2.O-4	Hyun, Jerome	MAT.P-375	Jang, Hye-Young	ORGN.P-221
Hwang, Geum-Sook	ANAL.P-201	Hyun, Jerome	MAT2-6	Jang, Hyoin	INOR.P-139
Hwang, Geum-Sook	ANAL.P-200	Hyun, Jerome	MAT.P-380	Jang, Jaehyeok	PHYS.P-172
Hwang, Gyusung	POLY.P-17	Hyun, Jiyoung	MEDI2-1	Jang, Ji Wook	KCS7-2
Hwang, Hyemin	MEDI.P-319	Hyun, Seungyeon	ORGN.P-249	Jang, Ji-Hyun	MAT.P-313
Hwang, Hyonseok	PHYS1.O-3			Jang, Jin Il	ANAL.P-232
Hwang, Hyonseok	PHYS.P-14			Jang, Juwon	ELEC.P-397
Hwang, In-Hui	PHYS.P-94			Jang, Semin	ORGN.P-260
Hwang, In-Hui	KCS1-7	Ibrahim, Alaa M.	ELEC.P-411	Jang, Seong Kyu	PHYS.P-86
Hwang, In-Hui	KCS1-10	Ihsan, Junaid	ELEC.O-6	Jang, Suguan	MAT.P-374
Hwang, Junha	ORGN.P-289	Ihsan, Junaid	PHYS.P-181	Jang, Wonyong	ORGN.P-211
Hwang, Nathaniel Suk-Yeon	IND3-4	Ihsan, Junaid	PHYS.P-179	Jang, Woo-Dong	PHYS.P-142
Hwang, Seong-Ju	MAT2-1	Ihsan, Junaid	PHYS.P-185	Jang, Woo-Dong	PHYS.P-155
Hwang, Seong-Ju	MAT.P-316	Ihsan, Junaid	PHYS.P-188	Jang, Yun Hee	POLY1-2
Hwang, Seong-Ju	MAT.P-317	Im, Geum Bi	ORGN.P-175	Jeon, Byungsun	MEDI.P-345
Hwang, Seong-Ju	MAT.P-318	Im, Hyein	ORGN.P-258	Jeon, Chae Hyeon	ORGN.P-176
Hwang, Seong-Ju	MAT.P-335	Im, Seungyoung	ANAL2.O-6	Jeon, Chaeyeon	MAT.P-317
Hwang, Seong-Ju	MAT.P-354	Im, Seungyoung	ANAL.P-229	Jeon, Eun Seo	INOR.P-75
Hwang, Seong-Ju	MAT.P-355			Jeon, Gookseon	ANAL2-3
Hwang, Seongpil	ELEC.P-374			Jeon, Gookseon	ANAL.P-271
Hwang, Seongpil	ELEC.P-361			Jeon, Gookseon	ANAL.P-216
Hwang, Seongpil	ELEC.P-366	Jang, Daham	ORGN.P-168	Jeon, Hansol	MAT.P-316
Hwang, Seoyoung	PHYS.P-174	Jang, Eun Jeong	MAT.P-357	Jeon, Hayeong	ORGN.P-290
Hwang, Sunyoung	PHYS.P-16	Jang, Eunjung	ELEC.P-368	Jeon, Hongjun	ORGN.P-209
Hwang, Yuhoon	ENVR.P-435	Jang, Heeju	ANAL.P-207	Jeon, Hongjun	MEDI.P-305
Hwang, Yuhoon	ENVR.P-434	Jang, Hongje	INOR.P-101	Jeon, Hyejeong	PHYS.P-21
Hwang, Yuhoon	ENVR.P-433	Jang, Hongje	INOR.P-102	Jeon, Jinyeong	ORGN.P-269
Hwang, Yun Jeong	ENVR-2	Jang, Hongje	INOR.P-103	Jeon, Jiyeun	MAT.P-372

Jeon, Jiyun	ELEC.P-373	Jeong, Ilju	ORGN.P-286	Jeong, Wooyeop	MEDI.P-318
Jeon, Jongho	MEDI.P-298	Jeong, Ilju	ORGN.P-287	Jeoung, Re Gin	MEDI.P-300
Jeon, Jongho	MEDI.P-297	Jeong, Jaehoon	PHYS.P-68	Jeoung, Re Gin	MEDI.P-325
Jeon, Jongho	MEDI.P-317	Jeong, Jihye	ANAL.P-212	Jeoung, Re Gin	MEDI.P-323
Jeon, Jongho	MEDI.P-315	Jeong, Jinho	PHYS2.O-1	Jhung, Sung Hwa	MAT.P-323
Jeon, Minwook	ELEC.P-402	Jeong, Jinho	PHYS.P-152	Jhung, Sung Hwa	MAT.P-329
Jeon, Nayeong	IND.P-5	Jeong, Keunhong	KCS6-10	Ji, Jungyoon	ORGN.P-265
Jeon, Soeun	MAT.P-405	Jeong, Kwang Seob	MAT.P-401	Ji, Minseo	ORGN.P-234
Jeon, Soeun	MAT.P-409	Jeong, Kwang Seob	MAT.P-403	Ji, Sangmin	PHYS.P-143
Jeon, Tae-Seok	ENVR.P-423	Jeong, Kwang Seob	MAT.P-404	Ji, Suhyun	MEDI.O-3
Jeon, Tae-Seok	ENVR.P-419	Jeong, Kwang Seob	MAT.P-405	Ji, Yujing	PHYS.P-55
Jeon, Woo-Hyun	MAT.P-378	Jeong, Kwang Seob	MAT.P-409	Jin, Congcong	INOR.P-94
Jeon, Yejin	LIFE.P-279	Jeong, Min Yul	ORGN.P-172	Jin, Geun Young	EDU.P-417
Jeon, Yong Hun	MAT.P-350	Jeong, Myeongsu	INOR.P-120	Jin, Geun Young	EDU.O-4
Jeon, Yonggoon	ELEC.O-1	Jeong, Najin	EDU.P-411	Jin, Ho	MAT.P-362
Jeon, Yonggoon	ELEC.P-394	Jeong, Najin	KCS5-7	Jin, Ho	MAT.P-363
Jeon, Young Hyun	MAT.P-373	Jeong, Nak Cheon	INOR.P-75	Jin, Ho	MAT.P-364
Jeong, Arim	IND.P-3	Jeong, Nak Cheon	INOR.P-76	Jin, Ho	MAT.P-367
Jeong, Beomgyun	KCS1-6	Jeong, Nak Cheon	INOR.P-79	Jin, Mingoo	INOR3-2
Jeong, Bomi	MEDI.P-324	Jeong, Sangheon	INOR.P-59	Jin, Minju	ORGN.P-210
Jeong, Bong Gyu	PHYS1.O-7	Jeong, Sangheon	INOR.P-60	Jin, Xiaoyan	MAT.P-316
Jeong, Chaeyun	MEDI.P-315	Jeong, Sangheon	INOR.P-61	Jin, Xiaoyan	MAT.P-317
Jeong, Dae Hong	PHYS.P-10	Jeong, Sangheon	INOR.P-113	Jin, Xiaoyan	MAT.P-318
Jeong, Dae Hong	PHYS.P-12	Jeong, Sangmin	PHYS.P-90	Jin, Xiaoyan	MAT.P-319
Jeong, Dae Hong	PHYS.P-53	Jeong, Seung Hyeon	PHYS.P-88	Jin, Xiaoyan	MAT.P-355
Jeong, Dae Hong	EDU.P-429	Jeong, Seunga	INOR.P-91	Jin, Yejin	ORGN.P-226
Jeong, Euitaek	KCS7-3	Jeong, Seyeop	MAT.P-326	Jin, Yu Bin	PHYS.P-128
Jeong, Eunjin	ORGN.P-233	Jeong, Uidon	PHYS.P-59	Jin, Yurim	PHYS.P-113
Jeong, Eun-Mi	ELEC.P-381	Jeong, Uidon	PHYS.P-71	Jo, Ara	KCS5-8
Jeong, Hyerim	ORGN.P-228	Jeong, Wonyoung	ANAL.P-232	Jo, Chanhyeong	INOR.P-110
Jeong, Hyun Su	INOR.P-116	Jeong, Woo-Jin	IND2-2	Jo, Hyeondeok	INOR.P-89
Jeong, Hyunsun	PHYS.P-155	Jeong, Wooyeop	MEDI.P-328	Jo, Jae-Yoon	ANAL.P-260

Jo, Soeun	ANAL.P-266	Jung, Dojun	EDU.O-5	Jung, Sieon	PHYS.P-24
Jo, Suhyeon	POLY.P-12	Jung, Eungyeong	ANAL.P-252	Jung, Sooyeon	LIFE.P-280
Jo, Suhyeon	POLY.P-18	Jung, Hanhyeon	PHYS.P-119	Jung, Sung Ho	ANAL.P-266
Jo, Sungbin	MAT.P-395	Jung, Heejin	INOR.P-126	Jung, Sung Ho	INOR.P-134
Jo, Wonhyuk	KCS1-10	Jung, Hyun	MAT.P-390	Jung, Woonkyeong	ANAL2-3
Joe, Chan Young	PHYS.P-149	Jung, Hyun	MAT.P-388	Jung, Woonkyeong	ANAL.P-271
Joo, Sang Hoon	MAT.O-7	Jung, Hyun	MAT.P-387	Jung, Woonkyeong	ANAL.P-216
Joo, Sang Hoon	MAT.P-352	Jung, Hyun	MAT.P-389	Jung, Wooseok	PHYS.P-93
Joo, Sang Hoon	MAT.P-353	Jung, Hyun	MAT.O-10	Jung, Young Gwon	PHYS.P-146
Joo, Sang Hoon	MAT.P-356	Jung, Hyunwoo	LIFE.P-273	Jung, Young Mee	PHYS.P-137
Joo, Sang Hoon	MAT.P-358	Jung, Hyunyoung	PHYS.P-151	Jung, Youngae	ANAL.P-204
Joo, Sang Hoon	ELEC.P-370	Jung, Inseop	ANAL.P-254	Jung, Youngae	ANAL2.O-1
Joung, Joonyoung F.	PHYS.P-21	Jung, Jaehong	INOR.P-135	Jung, Younjoon	PHYS.P-70
Joung, Joonyoung F.	PHYS.P-22	Jung, Jaehoon	ANAL.P-224		
Joung, Seewon	ORGN.P-184	Jung, Jaehoon	PHYS.P-183	K	
Joung, Younju	ANAL.P-238	Jung, Jaehyun	PHYS.P-31		
Ju, Hwicheol	INOR.P-147	Jung, Jin Woo	MEDI.P-301	Kamada, Kenji	PHYS.P-20
Ju, Kyunghye	ANAL.P-250	Jung, Ji-Woo	MAT.P-380	Kamaraj, Eswaran	ORGN.P-239
Ju, Kyunghye	ANAL1.O-2	Jung, Jungi	ORGN.O-4	Kamaraj, Eswaran	ORGN.P-240
Ju, Kyunghye	MAT.P-321	Jung, Jungi	ORGN.P-279	Kang, Bong Kyun	ELEC.P-389
Ju, Kyunghye	INOR.P-80	Jung, Kyulee	POLY.O-4	Kang, Bong Kyun	ELEC.P-392
Ju, Kyunghye	INOR.P-78	Jung, Minhwa	LIFE.P-291	Kang, Bong Kyun	ELEC.P-410
Ju, Kyunghye	INOR.O-1	Jung, Nuri	MEDI.P-336	Kang, Byung-Guk	ELEC.P-389
Ju, Sang-Yong	PHYS.P-98	Jung, Nuri	PHYS.P-67	Kang, Byung-Guk	ELEC.P-392
Ju, Sang-Yong	PHYS.P-109	Jung, Nuri	MEDI.P-328	Kang, Byung-Guk	ELEC.P-410
Ju, Sang-Yong	PHYS.P-132	Jung, Nuri	MEDI.P-335	Kang, Choong Mo	MEDI.O-4
Ju, Sang-Yong	PHYS.P-162	Jung, Ok-Sang	INOR.P-145	Kang, Dong Hee	ORGN.P-247
Jun, Seonkyu	ORGN.P-186	Jung, Sehoon	ANAL2-4	Kang, Dong Won	KCS5-2
Jun, Seung-Hyun	KCS7-3	Jung, Seohyun	POLY.P-23	Kang, Dong Won	PHYS.P-68
Jung, Cheulhee	LIFE2-3	Jung, Seoyun	PHYS.P-80	Kang, Dong-Ku	ANAL.P-213
Jung, Da-Jung	MEDI.P-299	Jung, Serin	PHYS.P-159	Kang, Dong-Ku	ANAL.P-207
Jung, Dojun	EDU-4	Jung, Seunggyum	PHYS.P-38	Kang, Dongwoo	POLY.P-7

Kang, Eunyong	EDU.P-417	Kang, Myung Jong	PHYS.P-169	Kashyap, Sukrit	LIFE.P-277
Kang, Eunyong	EDU.O-4	Kang, Myung Jong	PHYS.P-187	Keum, Hyeyun	ORGN.P-181
Kang, Gyeongwon	KCS5-1	Kang, Namsook	MEDI.P-300	Kil, Jihyun	ORGN.P-190
Kang, Hong Seok	ELEC.O-6	Kang, Namsook	MEDI.P-325	Kil, Minseo	MEDI.O-5
Kang, Hong Seok	PHYS.P-181	Kang, Namsook	MEDI.P-323	Kim, Ah-Young	LIFE.O-2
Kang, Hong Seok	PHYS.P-188	Kang, Namsook	MEDI.P-321	Kim, Bo Young	INOR.P-96
Kang, Houg	ORGN3-3	Kang, Namsook	MEDI.P-324	Kim, Bogyee	MAT.P-328
Kang, Hyojung	MAT.P-307	Kang, Namsook	MEDI.P-320	Kim, Byeongcheol	EDU.P-412
Kang, Hyoungwook	ANAL.P-266	Kang, Nea-Gyu	KCS7-3	Kim, Byeong-Seon	EDU.P-419
Kang, Hyoungwook	INOR.P-134	Kang, Rae Hyung	POLY.P-20	Kim, Byeong-Seon	EDU.P-414
Kang, Jiang	EDU.P-421	Kang, Seong Ho	ANAL.P-257	Kim, Byeong-Su	POLY.P-19
Kang, Jihye	ORGN.P-231	Kang, Seongsu	KCS7-3	Kim, Byeongsung	ELEC.P-398
Kang, Jinback	MAT.P-376	Kang, Seonyeong	MAT.P-381	Kim, Byoungwook	MEDI.P-328
Kang, Jisoo	ORGN.P-224	Kang, Seonyeong	MAT.P-379	Kim, Byoungwook	MEDI.P-335
Kang, Jueun	MEDI.P-309	Kang, Seonyoung	ANAL.P-256	Kim, Byoungwook	MEDI.P-357
Kang, Jumi	ANAL.P-239	Kang, Soomin	ANAL1.O-10	Kim, Byung-Kwon	ELEC.O-3
Kang, Jun Hyeok	EDU.P-427	Kang, Soomin	ANAL.P-248	Kim, Byung-Kwon	ELEC.P-401
Kang, Jun Hyeok	ANAL.P-234	Kang, Soon Hyung	ELEC.P-393	Kim, Chaeun	MEDI.P-297
Kang, Junghoon	ANAL.P-202	Kang, Soon Hyung	ELEC.P-395	Kim, Chaegyee	ORGN.P-179
Kang, Juram	EDU.P-427	Kang, Soon Hyung	ELEC.P-411	Kim, Chang Ho	LIFE.P-287
Kang, Juram	EDU.P-424	Kang, Sung Min	ORGN.P-235	Kim, Chang Ho	LIFE.P-283
Kang, Kyungtae	LIFE.O-5	Kang, Suyoung	ANAL.P-246	Kim, Chang-Woo	MAT.P-361
Kang, Kyungtae	LIFE.P-293	Kang, Taeyeon	ENVR.P-427	Kim, Chan-Gyu	LIFE.P-294
Kang, Kyungtae	LIFE.P-275	Kang, Taeyeon	ELEC.P-405	Kim, Chan-Gyu	LIFE.P-292
Kang, Mijeong	ANAL.P-219	Kang, Wonchull	LIFE.P-282	Kim, Chan-Gyu	LIFE.P-290
Kang, Minji	INOR.P-74	Kang, Wonchull	LIFE.P-281	Kim, Chanjoong	PHYS.P-21
Kang, Minjoo	LIFE.P-291	Kang, Wonchull	LIFE.P-280	Kim, Chanjoong	PHYS.P-22
Kang, Minju	ORGN.P-199	Kang, Yoonbeen	PHYS.P-98	Kim, Cheal	POLY.P-40
Kang, Minju	ORGN.P-196	Kang, Yoonbeen	PHYS.P-162	Kim, Cheal	POLY.P-41
Kang, Myung Jong	PHYS.P-105	Kang, Young Soo	PHYS.P-103	Kim, Cheal	POLY.P-42
Kang, Myung Jong	PHYS.P-159	Kang, Young Soo	ENVR.P-417	Kim, Cheal	POLY.P-43
Kang, Myung Jong	PHYS.P-165	Karuppiah, Chelladurai	ELEC.P-378	Kim, Cheal	POLY.P-44

Kim, Cheal	POLY.P-45	Kim, Dongwon	INOR.P-52	Kim, Eunha	MEDI.P-314
Kim, Cheoljae	POLY.P-29	Kim, Dongwon	ELEC.P-391	Kim, Eunha	MEDI.P-313
Kim, Cheoljae	POLY.P-30	Kim, Dongwon	INOR.P-160	Kim, Eunha	MEDI.P-312
Kim, Chung Hoe	MAT.P-360	Kim, Dongwook	INOR.P-55	Kim, Eunha	MEDI.P-310
Kim, Dabin	ORGN.P-242	Kim, Dongwook	INOR.P-58	Kim, Eunjin	MAT.P-299
Kim, Dabin	EDU.P-424	Kim, Dongwook	ORGN.P-181	Kim, Eunjin	LIFE.P-289
Kim, Dae-Woong	INOR.P-51	Kim, Dongwook	ORGN.P-231	Kim, Eunsu	MEDI.O-2
Kim, Dae-Woong	INOR.P-52	Kim, Dongwook	POLY.P-13	Kim, Gayoung	MEDI.P-327
Kim, Dae-Woong	INOR.P-150	Kim, Dongwook	ORGN.P-275	Kim, Geonho	MAT.P-325
Kim, Dahee	MEDI.P-355	Kim, Dongwook	PHYS.P-171	Kim, Geonho	MAT.O-4
Kim, Dahham	ORGN.P-266	Kim, Dongwook	PHYS.P-177	Kim, Geonho	MAT.P-377
Kim, Darae	ELEC.P-401	Kim, Dongwook	PHYS.P-178	Kim, Geun Wan	ANAL.P-205
Kim, Dayeon	MAT.P-332	Kim, Doory	PHYS.P-45	Kim, Geun Wan	ANAL1.O-13
Kim, Dayeon	ANAL.P-214	Kim, Doory	PHYS.P-59	Kim, Ghun	ELEC.P-384
Kim, Dohun	ANAL.P-251	Kim, Doory	PHYS.P-71	Kim, Guan Young	MAT.P-353
Kim, Dohyeon	MEDI.P-354	Kim, Doory	AWARD2-1	Kim, Ha Eun	ORGN.P-287
Kim, Dohyun	LIFE.P-295	Kim, Duck Joo	MAT.P-327	Kim, Haein	ORGN.P-233
Kim, Dong Eun	MEDI.P-295	Kim, Eui Jin	MAT.P-308	Kim, Haein	ORGN.P-234
Kim, Dong Ha	POLY.P-23	Kim, Eui Jin	MAT.P-309	Kim, Haewon	MAT.P-339
Kim, Dong Ha	ELEC.P-370	Kim, Eui Jin	MAT.P-312	Kim, Hak Joong	MEDI.P-337
Kim, Dong Hyeok	PHYS.P-129	Kim, Eui Jin	MAT.P-315	Kim, Hak Joong	ORGN.P-191
Kim, Dong Hyeon	ORGN.P-185	Kim, Eui Jin	MAT.P-351	Kim, Hak Joong	MEDI.P-326
Kim, Dong Hyeon	ORGN.P-189	Kim, Eun Cheol	PHYS.P-70	Kim, Hanbi	PHYS.P-63
Kim, Donggyun	ANAL.P-249	Kim, Eun Hyup	POLY.O-7	Kim, Hanjung	INOR.P-98
Kim, Donggyun	ANAL1.O-3	Kim, Eunae	ORGN.P-252	Kim, Han-Sol	MAT.P-368
Kim, Donghun	ORGN.O-6	Kim, Eunbi	ORGN.P-243	Kim, Hansu	PHYS.P-117
Kim, Donghyeon	ORGN.P-177	Kim, Eunbi	ORGN.P-289	Kim, Hayoung	ANAL.P-203
Kim, Donghyeon	ANAL.P-219	Kim, Eunbin	ORGN.P-206	Kim, Heesu	MAT.P-392
Kim, Dongjun	MAT.O-8	Kim, Eunha	MEDI.O-2	Kim, Heesun	MAT.P-337
Kim, Dongmin	INOR.P-125	Kim, Eunha	ORGN.O-5	Kim, Ho Young	MAT.P-356
Kim, Dong-Su	MEDI.O-5	Kim, Eunha	MEDI.P-322	Kim, Ho Young	MAT.P-358
Kim, Dongwon	INOR.P-51	Kim, Eunha	MEDI.P-316	Kim, Hongki	KCS5-3

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Kim, Hongki	ANAL.P-217	Kim, Hyunmi	ANAL.P-255	Kim, Ji Man	MAT2-2
Kim, Hongsuk	MEDI.P-333	Kim, Hyunwoo	ORGN.O-6	Kim, Jihye	MAT.P-344
Kim, Hongsuk	MEDI.P-328	Kim, Hyunyong	INOR.P-65	Kim, Jihyun	ANAL.P-270
Kim, Hongsuk	MEDI.P-335	Kim, In Su	ORGN.P-283	Kim, Jihyun	MEDI.P-300
Kim, Hugh I.	PHYS.P-170	Kim, In Young	MAT1-1	Kim, Ji-Hyun	PHYS.P-119
Kim, Hugh I.	LIFE.P-278	Kim, Ingyeong	PHYS.P-111	Kim, Ji-Hyun	PHYS.P-153
Kim, Hugh I.	ANAL.P-231	Kim, Inhoo	INOR.P-76	Kim, Ji-Hyun	PHYS.P-164
Kim, Hui Joo	ORGN.P-193	Kim, Iwon	MEDI.P-355	Kim, Ji-Hyun	KCS3-2
Kim, Huiyeon	INOR.P-95	Kim, Jaeun	MAT.P-363	Kim, Jimin	MAT.P-338
Kim, Hwimin	POLY.P-35	Kim, Jaeho	MEDI.P-291	Kim, Jimin	ORGN.P-255
Kim, Hyejin	MEDI.P-348	Kim, Jaeho	ANAL.P-234	Kim, Jimin	ORGN.P-256
Kim, Hyemin	ANAL.P-232	Kim, Jaehwan	MAT.P-352	Kim, Jimin	ORGN.P-257
Kim, Hyeondo	ENVR.P-429	Kim, Jaelim	INOR.O-5	Kim, Jin Mo	KCS7-4
Kim, Hyeonji	MEDI.P-349	Kim, Jaewook	ORGN.P-259	Kim, Jin Young	MAT.P-345
Kim, Hyeon-Jin	ORGN.P-277	Kim, Jangyun	PHYS.P-25	Kim, Jin Young	MAT.P-347
Kim, Hyeonkyeong	MAT.O-12	Kim, Jee Woo	ELEC.O-3	Kim, Jin Young	MAT.P-349
Kim, Hyeri	ANAL2.O-4	Kim, Jenghwan	KCS7-2	Kim, Jinhyeok	MEDI.P-339
Kim, Hyeri	ANAL.P-201	Kim, Jeong Hyeon	MEDI.P-323	Kim, Jinjong	MAT.O-7
Kim, Hyerim	MAT.P-393	Kim, Jeong Uk	MEDI.P-354	Kim, Jinjong	MAT.P-353
Kim, Hyesun	PHYS2.O-7	Kim, Jeongho	EDU-3	Kim, Jinkwon	MAT.P-346
Kim, Hyo Won	IND1-1	Kim, Jeongho	PHYS.P-68	Kim, Jinseck	POLY3-2
Kim, Hyojung	PHYS.P-125	Kim, Jeongho	EDU-1	Kim, Jinwoo	ORGN.P-251
Kim, Hyojung	PHYS.P-126	Kim, Jeongho	EDU-2	Kim, Jiseok	MAT.O-9
Kim, Hyojung	PHYS.P-127	Kim, Jeonghoon	INOR.P-73	Kim, Jiwon	MAT.O-2
Kim, Hyun Sung	PHYS.P-16	Kim, Jeonghun	ELEC.P-363	Kim, Jiwon	MAT.P-325
Kim, Hyun Woo	ORGN.P-287	Kim, Jeonghyeon	ELEC.P-370	Kim, Jiwon	MAT.O-4
Kim, Hyung Ju	ENVR-1	Kim, Jeonghyo	INOR.P-119	Kim, Jiwon	MAT.O-6
Kim, Hyung Min	ANAL.P-232	Kim, Jeonghyo	INOR.P-117	Kim, Jiwon	MAT.O-8
Kim, Hyungjun	PHYS.P-158	Kim, Jeongjin	PHYS.P-196	Kim, Jiwon	MAT.P-366
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Kim, Hyunjung	EDU-2	Kim, Jeongwon	POLY.P-5	Kim, Jiwoon	INOR.P-162

Kim, Jiyoung	MEDI.P-309	Kim, Kijeong	PHYS.P-94	Kim, Minho	ELEC1-2
Kim, Jong Won	ELEC.P-407	Kim, Kisoo	POLY.P-31	Kim, Minho	PHYS2-4
Kim, Jong Yup	MEDI1-2	Kim, Kunou	POLY.P-34	Kim, Minho	MAT.P-320
Kim, Jonghoon	ORGN.P-223	Kim, Kwang Pyo	LIFE.O-2	Kim, Minho	MAT.P-341
Kim, Jonghoon	ORGN.P-224	Kim, Kwang-Sun	LIFE.P-277	Kim, Minho	MAT.P-382
Kim, Jong-Seo	ANAL.P-260	Kim, Kwang-Sun	LIFE.P-276	Kim, Minho	MAT.P-402
Kim, Jongsik	INOR.P-146	Kim, Kwiyoung	ENVR.O-2	Kim, Minhwan	EDU-1
Kim, Jongsik	INOR.P-147	Kim, Kyeong Hui	MAT.P-308	Kim, Minhwan	EDU-2
Kim, Jongsik	ELEC.P-379	Kim, Kyeong Hui	MAT.P-309	Kim, Minhyuk	INOR.P-88
Kim, Jongsik	ELEC.P-360	Kim, Kyeong Hui	MAT.P-312	Kim, Minhyuk	INOR.P-132
Kim, Joohoon	ELEC.P-377	Kim, Kyeong Hui	MAT.P-315	Kim, Minhyuk	INOR.P-139
Kim, Joohoon	ANAL2.O-12	Kim, Kyeong Hui	MAT.P-351	Kim, Minjae	POLY.P-4
Kim, Joonghan	PHYS.P-90	Kim, Kyumin	EDU.P-410	Kim, Minjae	MEDI.P-296
Kim, Joonghan	PHYS.P-111	Kim, Kyung Hwan	PHYS.P-84	Kim, Minjung	PHYS.P-125
Kim, Joonghan	PHYS.P-113	Kim, Kyung Hwan	PHYS.P-90	Kim, Minjung	PHYS.P-126
Kim, Joonghan	PHYS.P-114	Kim, Kyung Hwan	PHYS2.O-3	Kim, Minjung	EDU.P-413
Kim, Joonghan	PHYS.P-131	Kim, Kyung Hwan	PHYS.P-110	Kim, Minkyu	ELEC2-2
Kim, Ju Hyun	ORGN.P-267	Kim, Kyung Hwan	PHYS.P-112	Kim, Minseo	PHYS.P-61
Kim, Ju Young	PHYS2.O-2	Kim, Kyung Hwan	PHYS.P-115	Kim, Minseol	ORGN.P-195
Kim, Juhee	PHYS.P-96	Kim, Kyung Hwan	PHYS.P-121	Kim, Minseop	POLY.P-34
Kim, Jung Kyu	MAT2-3	Kim, Kyung Hwan	PHYS.P-163	Kim, Min-Sik	ANAL.P-244
Kim, Junghun	IND3-4	Kim, Kyung Hwan	PHYS.P-180	Kim, Minsu	EDU.P-410
Kim, Jungwook	KCS1-2	Kim, Kyung Suh	PHYS.P-187	Kim, Min-Yeong	ELEC.P-381
Kim, Junwoo	PHYS2.O-6	Kim, Kyung-An	ENVR.P-424	Kim, Moonsoo	ANAL.P-240
Kim, Junwoo	KCS6-7	Kim, Kyung-Jin	KCS1-1	Kim, Myung Hwa	PHYS.P-89
Kim, Juyeon	ELEC.O-6	Kim, Mijin	ORGN.P-182	Kim, Myung Hwa	PHYS.P-140
Kim, Juyeon	PHYS.P-181	Kim, Min	ORGN.P-232	Kim, Myung Jong	MAT.P-368
Kim, Juyeon	PHYS.P-188	Kim, Min	ORGN.P-233	Kim, Myung Jong	MAT.P-369
Kim, Juyeong	INOR.P-87	Kim, Min	ORGN.P-234	Kim, Myung Jong	ELEC.P-412
Kim, Kihyun	ANAL.P-272	Kim, Min	ORGN.P-235	Kim, Myung Jong	MAT.P-371
Kim, Kijeong	KCS1-9	Kim, Min Cheol	PHYS.P-118	Kim, Myung Jong	MAT.P-372
Kim, Kijeong	KCS1-3	Kim, Min Jae	ORGN.P-191	Kim, Myung Jong	MAT.P-373

Kim, Myung Jong	MAT.P-378	Kim, Sangmin	INOR.P-108	Kim, Sohee	ORGN.P-266
Kim, Myungjun	MAT.P-377	Kim, Sangmin	INOR.P-110	Kim, Soobeen	ENVR.P-430
Kim, Na Hye	ENVR.P-428	Kim, Sebin	MAT.P-303	Kim, Soohwan	PHYS.P-69
Kim, Na Hyun	ORGN.P-178	Kim, Seeun	MEDI.P-328	Kim, Soohwan	PHYS.P-81
Kim, Naeun	ORGN.P-171	Kim, Seeun	MEDI.P-335	Kim, Soohwan	PHYS.P-104
Kim, Nahyun	ANAL1.O-8	Kim, Seeun	MEDI.P-357	Kim, Soohyeong	LIFE.P-278
Kim, Nahyun	ANAL.P-199	Kim, Seeun	MEDI.P-293	Kim, Soohyun	PHYS.P-112
Kim, Nam Joon	PHYS2.O-1	Kim, Sejin	PHYS.P-53	Kim, Soomin	PHYS.P-193
Kim, Nam Joon	PHYS.P-102	Kim, Seok Gyu	ANAL.P-224	Kim, Soyeon	ENVR.P-435
Kim, Nam Joon	PHYS.P-141	Kim, Seong Kyun	ENVR.P-430	Kim, Soyeon	POLY.P-40
Kim, Namdoo	POLY.P-31	Kim, Seong Kyun	ENVR.P-429	Kim, Su Bin	ORGN.P-222
Kim, Namdoo	POLY.P-38	Kim, Seong-Jun	PHYS.P-39	Kim, Suhyeon	ORGN.P-200
Kim, Namdoo	POLY.P-27	Kim, Seong-Jun	PHYS.P-157	Kim, Sujin	ORGN.P-201
Kim, Namdoo	POLY.P-50	Kim, Seongyeop	ELEC.P-378	Kim, Sujin	MEDI.P-330
Kim, Namdoo	PHYS.P-49	Kim, Seoyeon	POLY.P-44	Kim, Suk Jun	ENVR.O-4
Kim, Namdoo	PHYS.P-52	Kim, Seram	INOR.P-154	Kim, Sumin	MEDI.P-337
Kim, Namdoo	PHYS.P-57	Kim, Seulgi	INOR.O-6	Kim, Sumin	INOR.P-71
Kim, Namdoo	PHYS.P-63	Kim, Seunghee	ORGN.P-274	Kim, Sun Hee	INOR.P-71
Kim, Namdoo	PHYS.P-79	Kim, Seung-Kwon	ENVR.P-423	Kim, Sun Hee	INOR.O-5
Kim, Namdoo	PHYS.P-80	Kim, Seung-Kwon	ENVR.P-419	Kim, Sunam	MAT.P-376
Kim, Namdoo	PHYS.P-83	Kim, Seungrok	MAT.P-324	Kim, Sung Jee	KCS3-3
Kim, Namho	PHYS1.O-3	Kim, Shinik	MAT.P-362	Kim, Sungtae	ORGN.P-188
Kim, Namhui	PHYS.P-140	Kim, Shinik	MAT.P-363	Kim, Sunhee	POLY.P-47
Kim, Nam-Jung	MEDI.O-1	Kim, Shinik	MAT.P-367	Kim, Suyeon	POLY.P-24
Kim, Nayoun	MAT.P-322	Kim, Si Youn	INOR.P-164	Kim, Tae Hun	LIFE.P-286
Kim, Nayoun	ANAL.P-237	Kim, Si Yu	MAT.P-404	Kim, Tae Hyun	ELEC.P-390
Kim, Pilho	MEDI.P-346	Kim, Si Yu	MAT.P-405	Kim, Tae Wu	KCS1-8
Kim, Rakhyeon	POLY.P-21	Kim, Sion	ENVR.P-426	Kim, Taeun	ORGN.P-283
Kim, Rudia	ORGN.P-256	Kim, Sion	MAT.P-302	Kim, Taehee	EDU.P-413
Kim, Ryanghyun	INOR.P-102	Kim, Sion	ORGN.O-1	Kim, Taehun	INOR.P-78
Kim, Ryeonggeun	ORGN.P-205	Kim, Sion	MAT.P-304	Kim, Taehun	ANAL1.O-2
Kim, Sang Seok	EDU.P-420	Kim, Siran	PHYS.P-77	Kim, Taehun	MAT.P-321

Kim, Taehun	INOR.P-80	Kim, Yeram	ANAL.P-246	Kim, Young-Ho	POLY.P-13
Kim, Taehun	ANAL.P-250	Kim, Yeri	ORGN.P-271	Kim, Younghoon	ENVR.P-428
Kim, Taehun	INOR.O-1	Kim, Ye-Rim	ENVR.P-416	Kim, Younghoon	IND.P-3
Kim, Taehwan	PHYS.P-50	Kim, Yerin	MAT.P-342	Kim, Younghoon	ENVR.P-424
Kim, Taehyun	MAT.P-330	Kim, Yerin	INOR.P-130	Kim, Young-Hoon	MAT.P-343
Kim, Tae-Hyun	MEDI.P-311	Kim, Yerin	ENVR.P-424	Kim, Young-Hoon	INOR.O-2
Kim, Taejung	MEDI.P-309	Kim, Yijin	INOR.P-105	Kim, Youngji	ENVR.P-432
Kim, Taejung	MEDI.P-294	Kim, Yijin	INOR.P-109	Kim, Young-Kwan	PHYS1.O-6
Kim, Taekyeong	PHYS.P-92	Kim, Yijin	INOR.P-131	Kim, Youngmi	ORGN.P-270
Kim, Taesoo	PHYS.P-81	Kim, Yijin	INOR.P-133	Kim, Youngmi	ORGN.P-271
Kim, Taesoo	PHYS.P-69	Kim, Yijin	INOR.P-144	Kim, Youngsuk	PHYS.P-147
Kim, Taesoo	PHYS.P-104	Kim, Yonghoe	MEDI.P-301	Kim, Youngsun	LIFE.O-7
Kim, Taewan	MEDI.P-311	Kim, Yongseok	ORGN.P-260	Kim, Youyoung	MEDI.O-5
Kim, Tae-Young	ANAL.P-233	Kim, Yongtae	MEDI.P-301	Kim, Yubeen	MEDI.P-328
Kim, Tae-Young	ANAL1-5	Kim, Yoon Kee	INOR.P-157	Kim, Yubeen	MEDI.P-335
Kim, Toeun	ANAL.P-262	Kim, Yoon Kee	INOR.P-161	Kim, Yumi	ANAL.P-265
Kim, Wanhui	EDU.P-419	Kim, Yoongyo	ELEC.P-399	Kim, Yun Hi	ORGN.P-237
Kim, Wanhui	EDU.P-414	Kim, Yoonji	ELEC.P-401	Kim, Yun Hi	POLY3-1
Kim, Won-Suk	PHYS.P-30	Kim, Yoonkyung	ORGN.P-246	Kim, Yung Sam	PHYS.P-156
Kim, Won-Young	INOR.P-123	Kim, Yooshin	MEDI.P-328	Kim, Yunsu	PHYS.P-69
Kim, Woojae	PHYS1.O-8	Kim, Yooshin	MEDI.P-335	Kim, Yunsu	PHYS.P-104
Kim, Yaejin	ELEC.P-364	Kim, Yougang	INOR.P-105	Kin, Sarath	ANAL.P-264
Kim, Ye Seul	MEDI.P-307	Kim, Yougang	INOR.P-109	Kin, Sarath	MAT.P-322
Kim, Ye Yeon	PHYS.P-102	Kim, Yougang	INOR.P-131	Ko, Ara	ANAL.P-203
Kim, Ye Yeon	PHYS.P-141	Kim, Yougang	INOR.P-133	Ko, Byeongjun	PHYS.P-8
Kim, Yebin	PHYS.P-177	Kim, Yougang	INOR.P-144	Ko, Chanhee	INOR.P-93
Kim, Yejin	PHYS.P-145	Kim, Young Dok	PHYS.P-54	Ko, Dayeon	PHYS.P-168
Kim, Yeonbhin	MAT.P-379	Kim, Young Dok	PHYS.P-55	Ko, Donghyun	ORGN.P-187
Kim, Yeonbhin	MAT.P-381	Kim, Young Dok	PHYS.P-56	Ko, Eunbyeol	ELEC.P-400
Kim, Yeon-Gil	KCS1-3	Kim, Young Dok	PHYS.P-64	Ko, Geon	ANAL.P-241
Kim, Yeonsu	ELEC.P-403	Kim, Young Dok	PHYS.P-78	Ko, Geon	ANAL.P-267
Kim, Yeonwoo	PHYS.P-165	Kim, Young Soo	PHYS.P-133	Ko, Hye-Seong	POLY.P-1

Ko, Minji	INOR.P-119	Kwak, In Hye	PHYS.P-184	Kwon, Ik Seon	ELEC.O-6
Ko, Minji	INOR.P-126	Kwak, In Hye	PHYS.P-179	Kwon, Ik Seon	PHYS.P-181
Ko, Minji	PHYS.P-167	Kwak, In Hye	PHYS.P-185	Kwon, Ik Seon	PHYS.P-184
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Ko, Minseok	MAT.P-358	Kwak, Jimin	LIFE.P-298	Kwon, Ik Seon	PHYS.P-188
Ko, Min-Sung	ORGN.P-230	Kwak, Kyungwon	PHYS.P-122	Kwon, Ji Hoon	ORGN.P-218
Ko, Min-Sung	ORGN.P-248	Kwak, Kyungwon	PHYS.P-160	Kwon, Ji Hoon	MEDI.P-327
Koh, Hye Ran	PHYS.P-95	Kwak, Kyungwon	PHYS.P-190	Kwon, Jun Hyeok	ORGN.P-188
Koh, Hye Ran	PHYS.P-143	Kwak, Kyungwon	PHYS.P-191	Kwon, Jun Hyeok	MAT.P-314
Koh, Hye Ran	PHYS2-1	Kwak, Mi-Jeong	KCS1-3	Kwon, Junyoung	ANAL.P-245
Kong, Hoyoul	POLY.P-12	Kwak, Min	INOR.P-81	Kwon, Junyoung	ANAL.P-243
Kong, Hoyoul	POLY.P-15	Kwak, Minseok	POLY.O-3	Kwon, Kuktae	ORGN.P-274
Kong, Hoyoul	POLY.P-18	Kwak, Seon Lee	POLY.P-11	Kwon, Kyubin	ANAL.P-246
Kong, Hoyoul	POLY.P-21	Kwak, Seong Hoon	MAT.P-356	Kwon, Min Seung	ANAL2.O-11
Kong, Yeon Seo	INOR.P-159	Kwak, Sungjun	PHYS.P-10	Kwon, Nayoung	ANAL.P-251
Kong, Young Tae	EDU.O-2	Kwark, Young-Je	MAT.P-342	Kwon, Oh-Hoon	PHYS.P-39
Kong, Young Tae	EDU.P-423	Kweon, Jeonguk	ORGN.P-231	Kwon, Oh-Hoon	PHYS.P-51
Kong, Young Tae	EDU.P-422	Kweon, Youngha	MAT.P-382	Kwon, Oh-Hoon	PHYS.P-82
Koo, Bon Il	KCS7-3	Kwon, Bo Kyu	MAT.P-313	Kwon, Oh-Hoon	PHYS.P-85
Koo, Byungjin	POLY.P-36	Kwon, Chan Ho	PHYS.P-125	Kwon, Oh-Hoon	PHYS1-5
Koo, Byungjin	POLY.P-7	Kwon, Chan Ho	PHYS.P-126	Kwon, Oh-Hoon	PHYS.P-157
Koo, Donghyon	MEDI.P-326	Kwon, Chan Ho	PHYS.P-127	Kwon, Seoyoung	MAT.P-384
Koo, Hyun-Joo	PHYS.P-38	Kwon, Chan Ho	PHYS.P-128	Kwon, So Hyeon	INOR.P-70
Koo, Sangho	ORGN.P-242	Kwon, Chan Ho	PHYS2.O-5	Kwon, Soohyun	INOR.P-152
Koo, Sangho	ORGN.P-243	Kwon, Daesung	MAT.P-329	Kwon, Sungjae	MAT.P-402
Koo, Sangho	ORGN.P-244	Kwon, Dohoon	LIFE1-1	Kwon, Tae-Hyuk	ORGN.P-183
Koo, Sangho	ORGN.P-245	Kwon, Gumin	MAT.P-305	Kwon, Tae-Hyuk	ORGN.P-188
Koo, Yejin	ORGN.P-206	Kwon, Gyeongbin	PHYS.P-161	Kwon, Tae-Hyuk	MAT.P-314
Ku, Kyosun	POLY.O-1	Kwon, Hee Jung	MAT.P-320	Kwon, Tae-Hyuk	MAT.P-324
Kumar, Rajeev	PHYS.P-147	Kwon, Ik Seon	KCS1-5	Kwon, Tae-Hyuk	ELEC.P-396
Kwak, In Hye	ELEC.O-6	Kwon, Ik Seon	PHYS1.O-4	Kwon, Tae-Hyuk	ORGN.P-210
Kwak, In Hye	PHYS.P-181	Kwon, Ik Seon	PHYS.P-179	Kwon, Tae-Hyuk	ORGN.P-213

Kwon, Tae-Hyuk	INOR1-2	Lee, Dong Wook	MAT.P-316	Lee, Gang Ho	PHYS.P-37
Kwon, Tae-Hyuk	ORGN.P-280	Lee, Donggeon	MAT.P-301	Lee, Geumseong	EDU.P-410
Kwon, Woohyeon	POLY.O-1	Lee, Dong-Heon	INOR.P-63	Lee, Gwanho	INOR.P-155
L		Lee, Dong-Heon	INOR.P-64	Lee, Gyoung Yong	MAT.P-385
		Lee, Dong-Heon	INOR.P-65	Lee, Haeri	INOR.P-70
		Lee, Dong-Heon	INOR.P-66	Lee, Hakrae	POLY.P-28
Lansac, Yves	POLY1-2	Lee, Dongho	ANAL.P-224	Lee, Hangil	PHYS.P-16
Lashkaripour, Alireza	PHYS.P-11	Lee, Dongho	ANAL2.O-11	Lee, Hansuk	ORGN.P-244
Lee, Anna	ORGN.O-2	Lee, Dong-Kuk	PHYS.P-166	Lee, Hee Jung	MAT.P-379
Lee, Anna	ORGN.P-215	Lee, Dongwhan	ORGN.P-186	Lee, Hee Jung	MAT.P-381
Lee, Anna	ORGN.P-216	Lee, Dongwhan	INOR.P-118	Lee, Hee-Seung	ORGN.P-259
Lee, Anna	ORGN.P-217	Lee, Dongwhan	ORGN.P-249	Lee, Hee-Seung	ORGN.P-272
Lee, Ansoo	MEDI.P-338	Lee, Dongwhan	INOR.P-120	Lee, Hee-Seung	ANAL.P-234
Lee, Ayin	POLY.P-41	Lee, Dongwhan	ORGN.P-258	Lee, Heewon	ORGN.P-206
Lee, Beomjun	PHYS.P-98	Lee, Dongwon	IND.P-4	Lee, Ho Jun	INOR.P-124
Lee, Beomjun	PHYS.P-132	Lee, Dongwon	IND.P-5	Lee, Hochun	ELEC.P-364
Lee, Bumro	MEDI.P-314	Lee, Eun Kyung	ELEC.P-371	Lee, Hochun	ELEC.P-368
Lee, Bumro	MEDI.P-312	Lee, Eunji	MEDI.P-338	Lee, Hochun	ELEC.P-373
Lee, Byeongchan	MEDI.P-311	Lee, Eunji	INOR.P-85	Lee, Hochun	ELEC.P-376
Lee, Byoung Gwan	INOR.P-57	Lee, Eunji	INOR.P-114	Lee, Hochun	ELEC.P-384
Lee, Byoung Gwan	INOR.P-58	Lee, Eunji	INOR.P-128	Lee, Hochun	ELEC.P-385
Lee, Byounghoon	MAT2-4	Lee, Eunseo	ORGN.P-194	Lee, Hohjai	KCS6-5
Lee, Byung-Gil	LIFE.O-6	Lee, Eunsung	KCS6-11	Lee, Hoik	POLY.O-7
Lee, Chae-Hyeon	PHYS.P-62	Lee, Eunsung	POLY.P-34	Lee, Hong Geun	ORGN1-1
Lee, Chaeweon	INOR.P-121	Lee, Eunsung	INOR.P-71	Lee, Hosung	ORGN.P-201
Lee, Chang-Lyoul	INOR3-3	Lee, Eunsung	INOR.P-72	Lee, Hye Jin	ELEC.P-378
Lee, Chul-Ho	MAT1-3	Lee, Eunsung	INOR.O-5	Lee, Hye Jin	ELEC.P-380
Lee, Daehan	PHYS.P-69	Lee, Gaheun	INOR.P-112	Lee, Hye-Jin	LIFE.P-274
Lee, Daseul	MAT.P-343	Lee, Gang Ho	PHYS.P-33	Lee, Hyeonji	ENVR.P-425
Lee, Da-Young	POLY.O-6	Lee, Gang Ho	PHYS.P-34	Lee, Hyeonjun	ELEC.P-362
Lee, Dong Hyeon	PHYS.P-42	Lee, Gang Ho	PHYS.P-35	Lee, Hyeonwoo	MAT.O-5
Lee, Dong Ki	ENVR-3	Lee, Gang Ho	PHYS.P-36	Lee, Hyerin	INOR.P-84

Lee, Hyewon	INOR.P-105	Lee, Jae Yeol	MEDI.P-354	Lee, Jinho	MEDI.P-352
Lee, Hyewon	INOR.P-109	Lee, Jae Yeol	MEDI2-4	Lee, Jinseok	POLY.P-32
Lee, Hyewon	INOR.P-131	Lee, Jae Yeol	MEDI.P-345	Lee, Jinwoo	PHYS.P-21
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Lee, Hyewon	INOR.P-144	Lee, Jaehoon	ORGN.P-225	Lee, Jisu	ELEC.P-369
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Park, Jeong Young	PHYS.P-196	Park, Jongseok	POLY.P-48	Park, Myung Hwan	EDU-2
Park, Jeong Young	ELEC.P-387	Park, Jongsik	KCS5-4	Park, Nayeong	ANAL.P-270
Park, Jeong Young	PHYS.P-197	Park, Joohyun	ORGN.P-221	Park, Saehyun	INOR.P-156
Park, Jeong Young	PHYS.P-198	Park, Joonhyuck	MAT.P-344	Park, Sang Lim	INOR.P-161
Park, Jeongmin	PHYS.P-131	Park, Joonhyuck	MAT.P-357	Park, Sanghoon	PHYS1.O-7
Park, Jeongwon	MAT.O-10	Park, Joonhyuck	MAT.P-383	Park, Sanghwang	ANAL.P-208
Park, Jeunghee	PHYS.P-179	Park, Joonhyuck	MAT.P-384	Park, Sanghyuk	MAT.P-306
Park, Jeunghee	ELEC.O-6	Park, Ju Yun	ORGN.P-254	Park, Sangjun	ORGN.P-268
Park, Jeunghee	PHYS.P-181	Park, Juhyeon	PHYS.P-41	Park, Seo-Jeong	MAT.P-311
Park, Jeunghee	PHYS.P-184	Park, Jun Hui	ELEC.O-7	Park, Seong Ho	INOR.P-127
Park, Jeunghee	PHYS.P-185	Park, Jun Woo	POLY.P-33	Park, Seongdae	EDU.P-412
Park, Jeunghee	PHYS.P-188	Park, Juneon	PHYS.P-138	Park, Seongho	INOR.P-117
Park, Ji-Eun	MEDI.P-291	Park, Juneseo	ANAL.P-209	Park, Seongjun	ANAL.P-252
Park, Jihoon	ORGN.P-184	Park, Jung Eun	MEDI.P-298	Park, Seongmin	LIFE.P-298
Park, Jihun	EDU-1	Park, Jungmin	PHYS.P-122	Park, Seongwon	POLY.P-2
Park, Jihun	EDU-2	Park, Jungwon	KCS3-4	Park, Seongwon	POLY.P-3
Park, Jihyeon	MAT.O-6	Park, Jungwon	KCS3-2	Park, Seongyun	LIFE.O-5
Park, Jin Ah	ELEC.P-365	Park, Junhyeok	PHYS.P-190	Park, Seongyun	LIFE.P-293
Park, Jin Kyoon	ORGN.P-226	Park, Junyoung	ORGN.O-5	Park, Seonyun	MEDI.P-345

Park, Seung Bum	ORGN.P-218	Park, Yerim	INOR.P-66	Rajan, Akash Prabhu Sundar	PHYS.P-23
Park, Seung Bum	ORGN.P-220	Park, Yeseul	EDU.P-429	Rajan, Robin Prakash Sirvin	ORGN.P-208
Park, Seung Bum	MEDI.P-327	Park, Youngeun	POLY.P-18	Rhee, Choong Kyun	ENVR.P-415
Park, Seung Bum	LIFE.P-284	Park, Yujin	ORGN.P-278	Rhee, Choong Kyun	ENVR.P-425
Park, Seung Bum	ORGN.P-266	Park, Yun Mi	INOR.P-134	Rhee, Choong Kyun	ENVR.P-420
Park, Seung Bum	MEDI.P-299	Park, Yuri	ENVR.P-435	Rhee, Seog Woo	MAT.P-308
Park, Sieun	MAT.P-406	Park, Yuri	ENVR.P-434	Rhee, Seog Woo	MAT.P-309
Park, Sohyeon	LIFE.P-276	Park, Yuri	ENVR.P-433	Rhee, Seog Woo	MAT.P-312
Park, So-Jung	MAT.P-307	Pawar, Amol Uttam	PHYS.P-103	Rhee, Seog Woo	MAT.P-315
Park, So-Jung	INOR.O-4	Periyarath, Sujith Karinkara	ORGN.O-2	Rhee, Seog Woo	MAT.P-346
Park, So-Jung	KCS4-2	Peterson, Gregory	POLY.P-39	Rhee, Seog Woo	MAT.P-348
Park, Soyeon	INOR.P-64	Phyo, Sooyeol	ANAL1.O-7	Rhee, Seog Woo	MAT.P-350
Park, Soyoung	ORGN3-2	Pi, Yonghwan	INOR.P-106	Rhee, Seog Woo	MAT.P-351
Park, Soyoung	ORGN.P-232	Pi, Yonghwan	LIFE.P-273	Rhee, Young Min	KCS6-1
Park, Subin	ORGN.P-238	Piao, Longhai	POLY.P-27	Rim, Kyora	LIFE.P-286
Park, Sujin	MEDI.P-328	Piao, Longhai	POLY.P-28	Ringe, Stefan	PHYS.P-96
Park, Sujin	MEDI.P-335	Piao, Longhai	POLY.P-31	Ringe, Stefan	PHYS.P-97
Park, Sujin	MEDI.P-292	Piao, Longhai	POLY.P-38	Ringe, Stefan	PHYS.P-99
Park, Sung Han	POLY.P-22	Piao, Longhai	POLY.P-50	Ringe, Stefan	PHYS.P-100
Park, Sung Man	PHYS.P-128	Pootheri, Nithin	ORGN.P-207	Roh, Changhyun	MAT.P-302
Park, Sung Man	PHYS2.O-5	Prapassornwattana, Pavinee	PHYS.P-123	Roh, Changhyun	ENVR.P-426
Park, Sungjin	MAT.P-326	Puray, Jailenn Jannaraine	MAT.P-310	Roh, Changhyun	ORGN.O-1
Park, Sungjin	MAT.P-328			Roh, Changhyun	MAT.P-304
Park, Sungjin	MAT.P-337	Q		Roh, Geon Wan	MEDI.P-329
Park, Sungwoo	PHYS.P-91			Roh, Hee Yoon	ELEC.P-367
Park, Sunho	IND3-3	Qayyum, Ayesha	ELEC.P-379	Roh, Tae-Ho	ORGN.P-230
Park, Tae Jung	LIFE.P-286			Roh, Tae-Ho	ORGN.P-248
Park, Wonjin	MEDI.O-2	R		Roh, Yujin	PHYS.P-194
Park, Wonjin	MEDI.P-316			Ryoo, Harin	ORGN.P-181
Park, Woojin	PHYS.P-17	Ra, Hongju	INOR.P-103	Ryu, Do Hyun	ORGN.P-177
Park, Yang Jeong	ELEC1-3	Radhiha, Kaliappan	ORGN.P-237	Ryu, Do Hyun	ORGN.O-6
Park, Yeon Hu	MAT.P-354	Raikaar, Santosh Shiv-Anand	MEDI.P-346	Ryu, Do Hyun	ORGN.P-200

Ryu, Do Hyun	ORGN.P-201	Selvaraj, Baskar	ORGN.P-273	Seo, Yun Jong	PHYS.P-130
Ryu, Do Hyun	KCS2-8	Selvaraj, Baskar	MEDI.P-291	Seo, Yuna	ENVR.P-422
Ryu, Heewon	ORGN.P-169	Seng, Sreynith	MAT.P-322	Seok, Chaok	MEDI.P-336
Ryu, Hyunji	PHYS.P-30	Seo, Dahye	MAT.P-407	Seok, Chaok	MEDI.P-333
Ryu, Ja-Hyoung	LIFE.P-295	Seo, Eunhee	PHYS.P-53	Seok, Chaok	PHYS.P-67
Ryu, Ja-Hyoung	ORGN.P-214	Seo, Hosung	KCS6-8	Seok, Chaok	MEDI.P-332
Ryu, Ja-Hyoung	LIFE.P-285	Seo, Hyuna	INOR.P-146	Seok, Chaok	MEDI.P-331
Ryu, Ja-Hyoung	IND2-1	Seo, Hyunsoo	PHYS.P-49	Seok, Chaok	MEDI.P-328
Ryu, Ja-Hyoung	POLY2-5	Seo, Jimin	PHYS.P-18	Seok, Chaok	MEDI.P-335
Ryu, Jeoungjin	KCS7-1	Seo, Jinyoung	PHYS.P-98	Seok, Chaok	MEDI.P-357
Ryu, Jonghyuk	PHYS.P-13	Seo, Jinyoung	PHYS.P-162	Seok, Chaok	MEDI.P-353
Ryu, Ka Yeon	POLY.P-12	Seo, Jongcheol	POLY.P-34	Seok, Chaok	MEDI.P-343
Ryu, Ka Yeon	POLY.P-15	Seo, Jongcheol	EDU-1	Seok, Chaok	MEDI.P-318
Ryu, Ka Yeon	POLY.P-18	Seo, Jongcheol	EDU-2	Seok, Chaok	MEDI.P-293
Ryu, Ka Yeon	POLY.P-21	Seo, Jongcheol	ANAL.P-208	Seok, Chaok	MEDI.P-292
Ryu, Kwang Sun	ELEC.P-400	Seo, Jongcheol	PHYS.P-180	Seok, Jun Ho	PHYS.P-46
Ryu, Kwang Sun	ANAL.P-211	Seo, Kobeom	MEDI.P-329	Seol, Hoseong	PHYS.P-99
Ryu, Soeun	PHYS.P-175	Seo, Min Ho	ENVR.P-421	Seol, Jae Hun	PHYS.P-47
Ryu, Sunmin	KCS3-6	Seo, Min Ho	ENVR.P-416	Seol, Jin Gyu	PHYS.P-156
Ryu, Sunmin	MAT1-2	Seo, Myungeun	POLY.P-14	Seong, Seongu	MEDI.P-304
Ryu, Sunmin	PHYS2.O-7	Seo, Myungeun	POLY.P-10	Seong, Sikwang	MEDI.P-330
Ryu, Sunmin	PHYS.P-167	Seo, Myungeun	POLY.P-13	Seong, Sikwang	MEDI.P-358
Ryu, Sunmin	PHYS.P-168	Seo, Myungeun	POLY.P-22	Seong, Yeeun	INOR.P-87
Ryu, Sunmin	PHYS.P-186	Seo, Myungeun	POLY.O-5	Shim, Huieun	ENVR.P-415
S		Seo, Sangwon	POLY.P-13	Shim, Huieun	ENVR.P-420
		Seo, Terim	ORGN.O-6	Shim, Jun Ho	ELEC.P-371
		Seo, Terim	ORGN.P-200	Shim, Jun Ho	ELEC.P-372
Sadiq, Saima	PHYS.P-160	Seo, Terim	ORGN.P-201	Shim, Yeon-Gyo	PHYS.P-87
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Sayed, Suzan	ELEC.P-395	Seo, Wonil	PHYS.P-114	Shin, Dong Ryeol	ANAL.P-242
Selvaraj, Baskar	MEDI.P-344	Seo, You Hee	PHYS.P-15	Shin, Dong Ryeol	PHYS.P-101
Selvaraj, Baskar	MEDI.P-308	Seo, Yujin	ENVR.P-418	Shin, Dongha	ANAL1-4

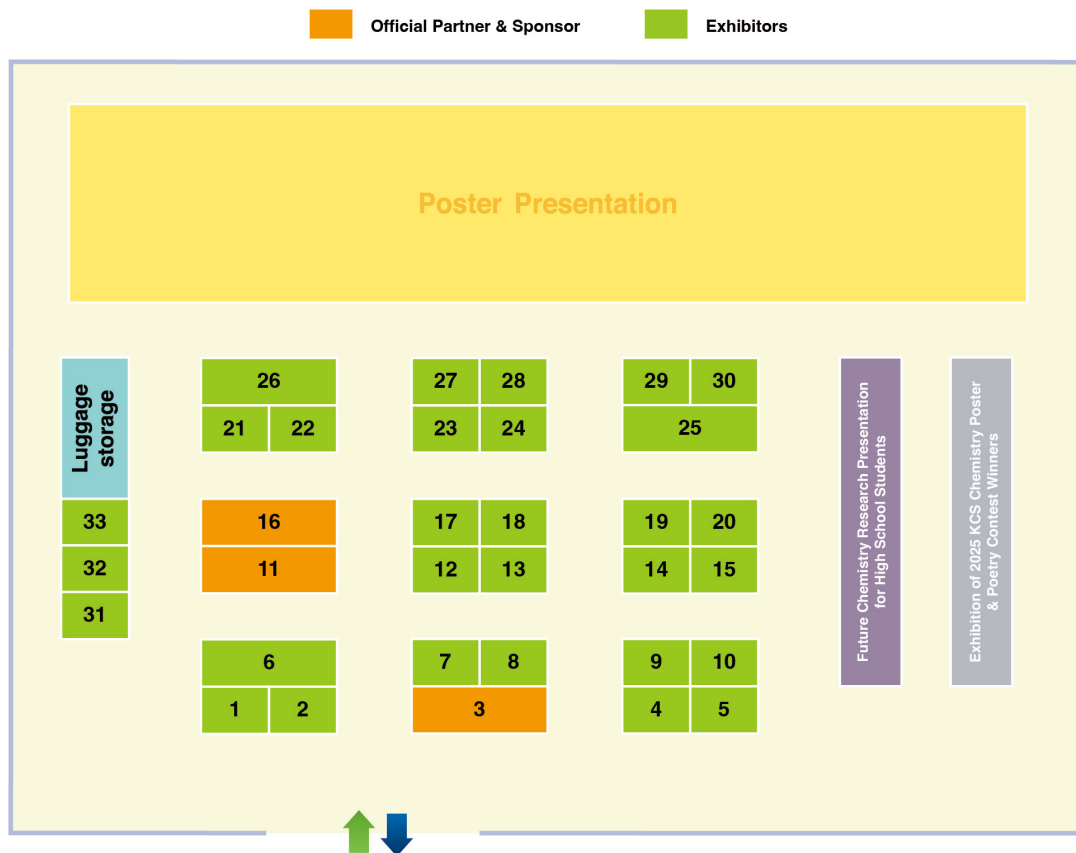
Shin, Doyun	ANAL.P-244	Shin, Kwanwoo	MAT.P-322	Sim, Jin-Chan	MEDI.P-294
Shin, Geon	IND.P-1	Shin, Kwanwoo	ANAL.P-237	Sim, Kyoseung	POLY3-4
Shin, Haeun	INOR.P-129	Shin, Kwanwoo	LIFE.P-289	Sim, Taebo	MEDI.O-7
Shin, Haneul	MAT.P-327	Shin, Kwanwoo	LIFE.P-288	Sim, Taebo	MEDI.O-8
Shin, Howoung	MAT.P-369	Shin, Kwanwoo	LIFE.P-287	Soeriawidjaja, Banyu Firdaus	POLY.O-3
Shin, Hyeon Suk	KCS6-9	Shin, Kwanwoo	PHYS.P-91	Sohn, Chang Ho	LIFE2-4
Shin, Injae	MEDI.P-330	Shin, Kwanwoo	MEDI.P-351	Sohn, Woon Yong	PHYS1-3
Shin, Injae	AWARD1-1	Shin, Kwanwoo	LIFE.P-283	Sohn, Woon Yong	PHYS.P-86
Shin, Inji	ORGN1-3	Shin, Mina	ANAL.P-238	Sohn, Woon Yong	PHYS.P-87
Shin, Inji	ORGN.P-225	Shin, Moonsik	ANAL1.O-11	Sohn, Woon Yong	PHYS.P-88
Shin, Jae Yoon	PHYS.P-69	Shin, Moonsik	ANAL.P-247	Sohn, Youngku	ENVR.P-415
Shin, Jae Yoon	PHYS.P-81	Shin, Moonsik	ANAL.P-236	Sohn, Youngku	ENVR.P-425
Shin, Jae Yoon	PHYS.P-104	Shin, Myeongsik	PHYS.P-115	Sohn, Youngku	ENVR.P-420
Shin, Jaeyong	KCS1-9	Shin, Seung Koo	ANAL.P-208	Sohng, Yunmi	INOR.P-108
Shin, Jaeyong	PHYS.P-94	Shin, Sieun	MEDI.P-310	Son, Deok Hyun	PHYS.P-166
Shin, Jaeyong	KCS1-10	Shin, Subin	POLY.P-30	Son, Dong-Hyun	MEDI.P-321
Shin, Jangwoo	ELEC.P-372	Shin, Su-Bin	ORGN.P-252	Son, Dong-Hyun	MEDI.P-324
Shin, Jeongcheol	INOR.P-71	Shin, Wonwoo	PHYS.P-68	Son, Doyeon	PHYS.P-144
Shin, Jeongcheol	INOR.O-5	Shin, Yeon-Ji	PHYS.P-30	Son, Eui Jeong	POLY.P-8
Shin, Jeongcheol	KCS6-6	Shin, Yongjin	PHYS2.O-4	Son, Eui Jeong	POLY.P-9
Shin, Jeongcheol	INOR.O-3	Shin, Yu-Jin	LIFE.P-290	Son, Euijin	ANAL.P-269
Shin, Jeong-Won	MEDI.O-1	Shin, Yuna	EDU.P-415	Son, Eunbeen	PHYS.P-125
Shin, Jeongwook	MEDI.P-358	Shit, Sudip	ORGN.P-177	Son, Eunbeen	PHYS.P-126
Shin, Ji Hye	ORGN.P-288	Shumway, Rylan	ANAL.P-240	Son, Hayoung	ORGN.P-266
Shin, Jieun	ANAL.P-223	Siah, Thong	MAT.P-336	Son, Ho-Jin	INOR.P-59
Shin, Jong Won	INOR.P-150	Silalahi, Andreas	ANAL.P-258	Son, Ho-Jin	INOR.P-60
Shin, Jong Won	IND.P-6	Silalahi, Andreas	ANAL1.O-4	Son, Ho-Jin	INOR.P-61
Shin, Ju Ran	EDU.O-1	Sim, Eunseo	ORGN.P-288	Son, Ho-Jin	PHYS.P-69
Shin, Ju Ran	EDU.P-416	Sim, Hyeonsoo	PHYS.P-149	Son, Ho-Jin	INOR.P-113
Shin, Kwanwoo	ANAL.P-264	Sim, Jiho	MEDI.P-331	Son, Jaeeun	ELEC.P-361
Shin, Kwanwoo	LIFE.P-297	Sim, Jiho	MEDI.P-328	Son, Jicheol	PHYS.P-183
Shin, Kwanwoo	LIFE.P-296	Sim, Jiho	MEDI.P-335	Son, Jongwoo	ORGN.O-7

Son, Kyung-Sun	POLY.P-34	Song, Intek	INOR.P-140	Sung, Kihyuk	POLY.O-2
Son, Mina	PHYS.P-106	Song, Jae Kyu	PHYS.P-8	Sung, Seungsik	EDU.P-426
Son, Minji	PHYS.P-57	Song, Jaewon	MEDI.O-7	Sung, Ye Been	PHYS.P-128
Son, Nayoung	POLY.P-37	Song, Ji-Joon	LIFE1-4	Syam, Rafifah Hana Raiha- na	ANAL.P-259
Son, Seung Uk	INOR.P-154	Song, Jiyeong	INOR.P-160	Syam, Rafifah Hana Raiha- na	ANAL1.O-9
Son, Seung Uk	MAT.P-400	Song, Jong-Won	PHYS.P-154	T	
Son, Seung Uk	INOR.P-157	Song, Jong-Won	PHYS2-3		
Son, Seung Uk	INOR.P-158	Song, Minji	ANAL2.O-9		
Son, Seung Uk	INOR.P-159	Song, Minji	ANAL.P-226	Tahreem	INOR.P-69
Son, Seung Uk	INOR.P-161	Song, Mugeon	ORGN.P-287	Tak, Dohyeon	PHYS.P-120
Son, Sumin	MEDI.P-299	Song, Woochul	IND1-4	Tegafaw, Tirusew	PHYS.P-33
Son, Sung Yun	KCS5-6	Song, Woo-Young	ANAL.P-233	Ten-no, Seiichiro	KCS6-4
Son, Yejin	ELEC.P-380	Song, Yubin	PHYS.P-151	Tessarolo, Jacopo	INOR.P-67
Son, Yoosang	PHYS.P-158	Subramania, Angaiah	PHYS.P-133	Tessarolo, Jacopo	INOR.P-68
Son, You Jin	ORGN.P-227	Subramania, Angaiah	PHYS.P-135	Tessarolo, Jacopo	INOR.P-69
Son, Young Seok	PHYS.P-103	Subramania, Angaiah	PHYS.P-116	Tessarolo, Jacopo	INOR.P-112
Song, Daniel	ORGN.P-264	Subramania, Angaiah	PHYS.P-136	Thangasami, Kiruthiga	MAT.P-389
Song, Eunsoo	PHYS.P-137	Suh, Sung-Eun	KCS5-5	Thu, Pyae Myat Phyto	MAT.P-306
Song, Eunyeong	ELEC.P-396	Suh, Yeongjoo	ORGN.P-209	Thu, Pyae Myat Phyto	MAT.P-310
Song, Gyu-Yong	MEDI.P-358	Suh, Yeongjoo	MEDI.P-305	Thu, Pyae Myat Phyto	MAT.P-311
Song, Gyu-Yong	MEDI.P-348	Sun, Dong Hoon	MAT.P-335	Tror, Seangly	LIFE.P-297
Song, Gyu-Yong	MEDI.O-5	Sung, Bong June	PHYS.P-18	Tror, Seangly	LIFE.P-296
Song, Haemin	MAT.P-403	Sung, Bong June	PHYS.P-19	Tun, Lykoun	PHYS.P-13
Song, Haemin	MAT.P-404	Sung, Bong June	PHYS.P-93	Tuyet, Nhi Nguyen Ngoc	INOR.P-135
Song, Haemin	MAT.P-405	Sung, Bong June	PHYS.P-192	Tyagi, Konika	PHYS.P-124
Song, Hwajin	EDU.P-418	Sung, Da-Eun	MEDI.P-334	U	
Song, Hyunjoon	MAT.O-9	Sung, Dan-Bi	ORGN.P-202		
Song, Hyunjoon	INOR.P-151	Sung, Jaeyoung	PHYS.P-119		
Song, Hyun-Kon	ELEC.P-369	Sung, Jaeyoung	KCS4-1	Umar, Abbas Haruna	ORGN.P-207
Song, Hyun-Kon	ELEC.P-375	Sung, Jaeyoung	PHYS.P-153		
Song, Hyun-Kon	ELEC.P-382	Sung, Jaeyoung	PHYS.P-164		
Song, Intek	INOR.P-138	Sung, Jaeyoung	KCS3-2		

V		Yang, Hyun Ju	ELEC.P-383	Yi, Dawon	LIFE.P-284
		Yang, Hyun Ju	ANAL.P-222	Yi, Sihyeong	ORGN.P-220
Vajithmeeran, Kadharbat-cha	PHYS.P-75	Yang, Hyun Ju	ANAL.P-221	Yi, Soomin	INOR.P-101
Varma, Pooja	PHYS.P-117	Yang, Hyun Ju	ANAL.P-220	Yi, Yelim	LIFE.P-298
Varma, Pooja	PHYS.P-129	Yang, Hyun Ju	ANAL2.O-13	Yim, Junhyeong	ORGN.O-5
Vinothkumar, Venkatachalam	ELEC.P-390	Yang, Jaesung	PHYS.P-106	Yim, Kanghoon	ELEC1-4
		Yang, Jaesung	PHYS.P-107	Yim, Sanggyu	MAT.P-327
W		Yang, Juchan	ELEC.O-4	Yoo, Byungwoo	POLY.P-19
		Yang, Juchan	ELEC.P-367	Yoo, Changsu	POLY.P-14
Waheed, Sabahat	ANAL.P-263	Yang, Jung Woon	ORGN1-5	Yoo, Chung-Yul	MAT.P-395
Waheed, Sabahat	ANAL.P-261	Yang, Junyeong	PHYS.P-7	Yoo, Chung-Yul	MAT.P-396
Wanakai, Sammy	MAT.P-388	Yang, Sanghee	POLY.P-16	Yoo, Eun Jeong	EDU-1
Wang, Dong Hwan	MAT.P-345	Yang, Sanghee	POLY.P-17	Yoo, Eun Jeong	EDU-2
Wang, Dong Hwan	MAT.P-347	Yang, Seyoung	ANAL2.O-7	Yoo, Geon	MAT.P-355
Wang, Dong Hwan	MAT.P-349	Yang, Seyoung	ANAL.P-228	Yoo, Hyejin	PHYS.P-52
Wee, Kyung-Ryang	MAT.O-3	Yang, Seyoung	ANAL2.O-8	Yoo, Iltae	PHYS2.O-1
Wi, Changwoo	ANAL1.O-1	Yang, Seyoung	ANAL2.O-9	Yoo, Jeasang	INOR.P-55
Wi, Dae Han	PHYS1.O-2	Yang, Seyoung	ANAL.P-218	Yoo, Jeong Yeon	ORGN.P-218
Won, Jaehyuk	PHYS.P-153	Yang, Seyoung	ANAL.P-226	Yoo, Jeong Yeon	MEDI.P-327
Woo, Sang Kook	ORGN1-2	Yang, Won-Geun	PHYS.P-148	Yoo, Jimin	POLY.P-10
Woo, Sang Kook	ORGN.P-253	Yeansonn, Setha	LIFE.P-296	Yoo, Sung Hyun	ORGN.P-211
Woo, Sang Kook	ORGN.P-277	Yeo, Hyeonuk	POLY.O-1	Yoo, Sung Hyun	ORGN.P-212
Woo, Seung Min	ENVR.P-421	Yeo, Jiwon	EDU.P-412	Yoo, Sung Hyun	ORGN.P-259
Wu, Huiqiang	MEDI.P-303	Yeo, Soo Ho	MEDI.P-342	Yoo, Youngdong	PHYS.P-182
Wu, Huiqiang	MEDI.P-302	Yeo, Soo Ho	MEDI.P-341	Yoo, Youngdong	MAT.O-12
Wu, Jichuang	PHYS.P-64	Yeo, Soo Ho	MEDI.P-340	Yoon, Gwangsu	ORGN.P-280
		Yeo, Soo Ho	MEDI.P-303	Yoon, Gysub	ANAL.P-231
Y		Yeo, Soo Ho	MEDI.P-302	Yoon, Hana	ELEC1-4
		Yeo, Wonjune	POLY.O-5	Yoon, Hee-Jae	PHYS.P-65
Yang, Chaeyeon	ANAL.P-213	Yeom, Hyun-Suk	ORGN.P-247	Yoon, Heesook	EDU.P-426
Yang, Eunbyeol	ORGN.P-213	Yeom, Ji Eun	LIFE.P-274	Yoon, Heesook	EDU.P-425
Yang, Haesik	KCS4-3	Yesildagli, Berkay	ANAL1.O-7	Yoon, Heesook	EDU.P-415

Yoon, Hojeong	PHYS.P-160	Yoon, Sungho	INOR.P-77	Yun, Eunji	POLY.P-25
Yoon, Hojeong	PHYS.P-190	Yoon, Sungho	INOR.P-90	Yun, Gaeun	ENVR.P-415
Yoon, Hong Yeon	PHYS.P-195	Yoon, Sungho	ORGN2+INOR2-6	Yun, Gaeun	ENVR.P-420
Yoon, Hyeri	ORGN.P-229	Yoon, Taeyoung	PHYS2-5	Yun, Garam	ORGN.P-286
Yoon, Il	MEDI.P-303	You, Jaejeong	INOR.P-64	Yun, Hongseok	INOR.P-107
Yoon, Il	MEDI.P-302	You, Tae-Soo	INOR.P-163	Yun, Jiwan	ORGN.P-177
Yoon, Ilsun	MAT.P-332	You, Tae-Soo	INOR.P-164	Yun, Jiyeon	PHYS.P-102
Yoon, Jeongwon	ORGN.P-260	You, Tae-Soo	INOR.P-165	Yun, Jiyeon	PHYS.P-141
Yoon, Jinkyong	PHYS.P-30	You, Tae-Soo	INOR.P-166	Yun, Seohyeon	INOR.P-114
Yoon, Jongchan	PHYS.P-14	You, Tae-Soo	INOR.P-167	Yun, Seohyeon	INOR.P-128
Yoon, Jonghee	ANAL1-1	You, Youjeong	ORGN.P-281	Yun, Seokki	ANAL2.O-7
Yoon, Ju Young	MEDI.P-356	You, Youjeong	ORGN.P-282	Yun, Seokki	ANAL.P-228
Yoon, Juyoung	ORGN.P-261	You, Youngmin	INOR.P-153	Yun, Seokki	ANAL2.O-8
Yoon, Juyoung	ORGN.P-262	Youn, So Won	ORGN.P-170	Yun, Seokki	ANAL.P-218
Yoon, Minyoung	MAT.P-323	Youn, So Won	ORGN.P-171	Yun, Soohan	PHYS.P-28
Yoon, Minyoung	MAT.P-329	Yu, Jangwoo	ORGN.P-203		
Yoon, Myung-Han	POLY.O-6	Yu, Jina	PHYS.P-19	Z	
Yoon, Sangwoon	KCS3-5	Yu, Jungmin	ANAL.P-232		
Yoon, Sangwoon	PHYS.P-174	Yu, Junhee	ELEC.P-383	Zhao, Dejun	PHYS.P-37
Yoon, Sangwoon	PHYS.P-175	Yu, Junhee	ANAL.P-222	Zhao, Pengyu	MAT.P-340
Yoon, Sangwoon	PHYS.P-176	Yu, Junhee	ANAL.P-221	Zhao, Shufang	PHYS.P-56
Yoon, Sangwoon	PHYS.P-189	Yu, Junhee	ANAL.P-220	Zheng, Haimei	ELEC.P-413
Yoon, Seo Eun	MAT.P-350	Yu, Junhee	ANAL2.O-13		
Yoon, Seo Eun	MAT.P-348	Yu, Seungjin	MAT.P-408		
Yoon, Seog Joon	ELEC.P-397	Yu, Suh Young	ORGN.P-255		
Yoon, Seog Joon	ELEC.P-398	Yu, Sungju	ANAL.P-209		
Yoon, Seog Joon	ELEC.P-399	Yu, Sungju	ANAL.P-235		
Yoon, Seohyeon	ORGN.P-251	Yu, Woo Sang	LIFE.P-286		
Yoon, Seoyoung	MAT.P-325	Yun, Changsuk	ELEC.P-374		
Yoon, Seoyoung	MAT.O-8	Yun, Changsuk	ELEC.P-361		
Yoon, Sungho	INOR.P-73	Yun, Changsuk	ELEC.P-366		
Yoon, Sungho	INOR.P-74	Yun, Changsuk	ELEC2-1		

Exhibition



no	BOOTH NAME
1	SULIM COMMERCE CO., LTD.
2	SCIPLUS
3	SHIMADZU SCIENTIFIC KOREA
4	Duksan Pure Chemicals
5	AMPERE MATERIALS Co., Ltd.
6	Thermo Fisher Scientific Chemicals
7	KOS, Inc.
8	IWOO Scientific Corporation
9	K LAB CO.,LTD.
10	KNF
11	BIONEER CORPORATION

no	BOOTH NAME
12	ALTOSS
13	BITEK CHEMS Inc.
14	JASCO-TS SCIENCE
15	YK Tech Co., Ltd
16	DONGWOO FINE-CHEM
17	SY SCIENCE / R-DEC / KASHIYAMA
18	BK Instruments Inc.
19	iNexus
20	NewGenTech
21	ChemScene Korea
22	YMC KOREA Co.,Ltd.

no	BOOTH NAME
23	YOUNG IN M-Tech
24	Qbic Laser System Inc.
25	R&D Career in Korea, KIRD
26	TCI-SEJIN CI
27	SUNGWON SCIENCE
28	Anton Paar Korea
29	Samin science co., Ltd
30	Korea Quantum Computing (KQC)
31	BKCS: Flagship journal of KCS
32	jinuchem
33	DXG Ltd.

Exhibitors

ALTOSS

Address #606 Happy Raum Blue Bldg. 18 Daepyeong 3-gil, Sejong-si, Republic of Korea

Tel 044-865-7172

Fax 044-865-7173

Web Site www.altoss.co.kr

Contacts Junho Jung

E-mail jhjung@altoss.co.kr

Items 1. Spectrometers

- Benchtop FT-IR/NIR (ABB)
- Reaction Monitoring FTIR (ABB)
- IR/NIR/Raman Spectroscopy Fiber Probes (art photonics)

2. Gas Analyzer

- Multi Gas (CICP, ABB)
- Mass (Syft)

3. Consumables

- NMR D-Solvents/Tubes (DEUTERO)
- Syringe Filter/Vials (FilTec)

4. High-Throughput Experimentation (HTE)

5. Air Treatment System

- Adsorption Air Dryer for NMR (CompAir)
- Air Filter
- N2 Separator for NMR

AMPERE MATERIALS Co., Ltd.

Address Room No. 736, 7th Floor 120 Daehwa-ro, Daedeok-gu, Daejeon, Republic of Korea

Tel 042-345-2666

Fax 0504-335-6696

Web Site www.amperematerials.com

Contacts Minja Kim

E-mail mjkim@amperematerials.com

- Items**
1. Silicon anode material
 2. Microwave-Assisted Catalyst Reactor for Green Energy and Pollution Reduction
 3. High-Performance Microwave Generator for Industrial Processes, Advanced Material Synthesis, and Plasma Applications
 4. Plavo - Plasma Cleaner + Vacuum Oven

Anton Paar Korea

Address 1-4 floor 240 Yanghyeon-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Tel 02-6747-5771

Fax 02-6747-5772

Web Site www.anton-paar.com/kr-kr

Contacts Anton Paar Korea

E-mail marketing.kr@anton-paar.com

Items Automated Multipurpose Powder X-Ray Diffractometer; SAXS instrumentation; Versatile X-ray diffraction solutions; Sample Stages and Sample Holders for XRDynamic 500

BIONEER CORPORATION

Address Bioneer Global Center 71 Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea

Tel 1588-9788

Fax 042-939-6400

Web Site www.bioneer.com

Contacts Hwapyung Song

E-mail dbsgghi1226@bioneer.co.kr

- Items**
1. AllInOneCycler™
 2. Exicycler™ V5
 3. ExiPrep™ 96 Lite
 4. ExiProgen™
 5. AccuGC™ 100

BITEK CHEMS Inc.

Address Suite 1209, A Dong, Gwacheon D-Tech Tower 33 Gwacheon-daero 7-gil, Gwacheon-si, Gyeonggi-do, Republic of Korea

Tel 02-6671-1050

Fax 02-6390-6122

Web Site www.bitekchems.com

Contacts Eunmi Lee

E-mail emlee@bitekchems.com

Items ChemDraw, Signals ChemDraw, Gaussian, WinNonlin, Prism, SnapGene, Derek Nexus, Sarah Nexus, Zeneth, eCTDmanager, Signals Notebook, Inventory, Registration, CSD database, ChemTunes, Gostar, ViridisChem

BK Instruments Inc.

Address 4F, BKI Bldg. 281-25 Munji-ro, Yuseong-gu, Daejeon, Republic of Korea

Tel 042-487-8240

Fax 042-488-8241

Web Site www.bkinstruments.co.kr

Contacts Asun Kim

E-mail marketing@bkinstruments.co.kr

Items Instrumentation : NMR / EPR / FT-IR Spectrometer, UV-Vis Spectrophotometer
NMR Software : Mnova(Analytical Chemistry Software) / Chenomx(NMR Metabolomics Software) / KnowItAll(Spectral Library Software)
Consumables & Accessories : FT-IR & UV-Vis Accessories / NMR Tubes / Shigemi Tubes / NMR D- Solvents / Lab Consumables
Basic Equipment : Ultrasonicator / Pipetting

ChemScene Korea

Address Room 301, 163, Gangnam-daero, Seocho-gu, Seoul, Republic of Korea

Tel 02-573-1237

Fax

Web Site www.chemscene.com

Contacts Jihoon Lee

E-mail kr.office@chemscene.com

Items

- Building blocks
- Catalysts and ligands
- Specialized materials for life sciences and material sciences applications

DONGWOO FINE-CHEM

Address 35 Poseunggongdan-ro 117beon-gil, Poseung-eup, Pyeongtaek-si, Gyeonggi-do, Republic of Korea

Tel 031-659-4000

Fax

Web Site www.dwchem.co.kr

Contacts Yongho Oh

E-mail yhoh@dwchem.co.kr

Items 1. Semiconductor Materials

- Photoresists: Used in photolithography processes (e.g., ArF, KrF, EUV)
- High-purity process chemicals: Cleaning solutions, etchants, strippers

2. Display Materials

- Color filters: For LCD and OLED panels
- Functional materials for polarizing films
- Electrode materials for touchscreens

3. Energy Materials

- Binders for separator coatings: Improve battery performance and safety
- Aluminum pouch films: Used in lithium-ion battery packaging

Duksan Pure Chemicals

Address Duksan Pure Chemicals 13-37 Sansusandan 1-ro, Deoksan-eup, Jincheon-gun, Chungcheongbuk-do, Republic of Korea

Tel 031-495-6886

Fax 031-495-5335

Web Site www.duksan.kr

Contacts MinHyuk Lim

E-mail ihansukk@naver.com

Items "High-Purity Reagents and Bio Reagents"

DXG

Address DXG Ltd. 102-8 Hoean-daero, Gwangju-si, Gyeonggi-do, Republic of Korea

Tel 02-564-3772

Fax 02-564-0222

Web Site www.dyg.kr

Contacts HoKyum Kim

E-mail ok@dyg.kr

Items PL/Raman Spectroscopy System, Micro PL/Raman system, TCSPC, Pulsed Diode laser, Fluorescence Lifetime spectrometer, DPSS Laser, Ar ion laser, He-Cd laser, He-Ne laser, Xe Arc lamp, CCD, EMCCD, sCMOS, Spectrograph

iNexus

Address C-402 253 Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Tel 1644-4214

Fax 031-8018-7272

Web Site www.4science.net

Contacts JungHoon Moon

E-mail mjh@4science.net

Items Instruments for Physicochemical Experiments

IWOO Scientific Corporation

Address Yangwoo Bldg, 5F 30 Banpo-daero 23-gil, Seocho-gu, Seoul, Republic of Korea

Tel 010-3894-6329

Fax 02-579-8873

Web Site www.iwoo.co.kr

Contacts Jongsoo Lee

E-mail jslee@iwoo.co.kr

Items Flash Chromatography (CombiFlash NextGen 300+, CombiFlash NextGen 300, CombiFlash NextGen 100, CombiFlash Torrent), Hybrid HPLC/Flash (EZ Prep) , Preparative HPLC(ACCQPrep HP 150) , Preparative SFC (ACCQPrep SFC)

jinuchem

Address 202, B, Business Incubator 501 Jinju-daero, Jinju-si, Gyeongsangnam-do, Republic of Korea

Tel 010-8799-1053

Fax 055-772-2229

Web Site www.jinuchem.co.kr

Contacts ChaeEun Hong

E-mail hongchae1009@gmail.com

Items Research Laboratory Integrated Management Platform

K LAB

Address K LAB Co.,Ltd. 94-23 Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea

Tel 042-932-7586

Fax 042-942-7589

Web Site www.klab.im

Contacts Yaeyoung Kim

E-mail ty79@klab.im

Items Molecular Spectroscopy

- UV-VIS Spectrophotometer
- Water Analyzer

Life Science

- Microvolume Spectrophotometer (DNA/RNA, Protein, IgG, etc.)
- Microplate Reader (ELISA, Endotoxin, etc.)

KIRD

Address Korea Institute of Human Resources Development in Science and Technology 45
Yangcheong 4-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do,
Republic of Korea

Tel 042-820-4018

Fax 042-820-4007

Web Site www.kird.re.kr

Contacts Marie Kim

E-mail mrkim@kird.re.kr

Items STEM career exploration program, career seminars, etc.

KNF NEUBERGER

Address Dowon bldg. 2F 11 Yeongdong-daero 82-gil, Gangnam-gu, Seoul, Republic of Korea

Tel 02-959-0257

Fax 02-959-0254

Web Site www.KNF.com

Contacts JungWoo Woo

E-mail jungwoo.woo@knf.com

Items Diaphragm chemical resistance pump, Diaphragm vacuum pump, Vacuum controlled pump, Diaphragm liquid pump, Diaphragm metering pump.

KOREA QUANTUM COMPUTING

Address DCU 9th Fl. 55 Centum jungang-ro, Haeundae-gu, Busan, Republic of Korea

Tel 051-791-0825

Fax 010-2804-6030

Web Site www.kqchub.com

Contacts KeunWoo Lee

E-mail woo.lee@kqchub.com

Items Quantum Computing Information
GPU Farm Information
Quantum Safe Information

KOS, Inc.

Address 0213, Green-Zone, #150 Jojeong-daero, Hanam-city, Gyeonggi-do, Republic of Korea

Tel 02-486-7930

Fax 02-486-7931

Web Site www.kosinc.co.kr

Contacts Youngjin Cho

E-mail yjcho@kosinc.co.kr

Items CCD Detector, Spectrometer, Light source, Optics

NewGenTech

Address #1113 8 Gunpocheomdansaneop 2-ro 7beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

Tel 010-3896-6471

Fax 0508-934-6471

Web Site blog.naver.com/newgen_tech

Contacts YoungSam Kim

E-mail newgen_tech@naver.com

Items IKA_Rotary Evaporator System
IKA_Magnetic Stirrer
IKA_Synthesis Reactors
BUCHI_MPLC
BUCHI_Freeze Dryer
BUCHI_Spray Dryer

Qbic Laser System Inc.

Address 303-901 365 Samjeong-dong, Ojeong-gu, Bucheon-si, Gyeonggi-do, Republic of Korea

Tel 032-325-4544

Fax 032-323-4736

Web Site www.qbiclaser.com

Contacts Sujin Kwon

E-mail sjkwon@qbiclaser.com

- Items**
1. Optical System Manufactured by Qbic Laser System Inc.
 - Beam Homogenized System
 - Stand-alone Motorized Laser Beam Attenuators
 - Fiber Coupled Diode Laser System
 2. Imported Products
 - Pulsed Q-switched Nd:YAG Lasers
 - Diode Pumped Solid State Lasers
 - Fiber Lasers
 - Femtosecond Lasers
 - Laser Energy and Power meters
 - Laser Optics / Fiber Optics

Samin science co., Ltd

Address Samin Science 27 Emtibeui 4-ro 48beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea

Tel 031-433-8941

Fax 031-433-8943

Web Site www.saminsci.com

Contacts YeonSup Kim

E-mail yskim@saminsci.com

Items

1. LC System Bench
2. MS Compact Bench
3. Chemical Waste Safety Booth

SCIPLUS

Address #1106 14 Yangpyeong-ro 30-gil, Yeongdeungpo-gu, Seoul, Republic of Korea

Tel 02-332-6171

Fax 02-332-6185

Web Site www.sciplus.co.kr

Contacts YeongBok Kim

E-mail ybkim@sciplus.co.kr

Items books

SHIMADZU SCIENTIFIC KOREA

Address 9 609 Eonju-ro, Gangnam-gu, Seoul, Republic of Korea

Tel 02-540-5541

Fax 02-541-2163

Web Site www.shimadzu.co.kr

Contacts KwanSoo Kim

E-mail kskim@shimadzu.co.kr

Items Chemical analysis instruments such as LC, GC, UV, FTIR, EDX, TOC, etc. Test instruments, laboratory safety devices and consumables.

SULIM COMMERCE CO., LTD.

Address Megavalley #622-#623 268 Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

Tel 031-420-8670

Fax 031-420-8673

Web Site www.sulim.com

Contacts Youngjin Cho

E-mail suliminfo@naver.com

Items Vacuubrand

Chemistry diaphragm vacuum pump, VARIO chemistry pumping unit, Rotary vane pump (chemistry oil pump), Chemistry oil-free screw pump, Chemistry HYBRID pump, Vacuum controller, Vacuum gauge & sensor, High vacuum manifolds (schlenk line) Martin Christ
Freeze dryer, Rotational vacuum concentrator

SUNGWON SCIENCE

Address Room 2205, 2208, Gunpo IT Valley 17 Gosan-ro 148beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea

Tel 070-8873-8384

Fax 031-326-3168

Web Site www.sungwonscience.com

Contacts YongHun Chae

E-mail hun@sungwons.co.kr

- Items**
1. Ultrapure Water Purification System
 2. High-Precision Refrigerated Incubator
 3. Autoclave
 4. General Physicochemical Laboratory Equipment
 5. TOC Analyzer (Total Organic Carbon)

SY SCIENCE CO.

Address #223, SANGGA 74 Mallijae-ro, Mapo-gu, Seoul, Republic of Korea

Tel 02-6374-7500

Fax 02-702-7501

Web Site www.syscience.co.kr

Contacts SungYong Jang

E-mail syscience1@naver.com

- Items**
1. Multi-Roots Dry Vacuum Pump - NeoDry G Series
 - NeoDry15G (1Pa, 45dB, 250L/min)
 - NeoDry30G (1Pa, 45dB, 500L/min)
 - NeoDry36G (0.7Pa, 51dB, 600L/min)
 - DRY FORCE SLIM (Dry&Turbo Vacuum Pumping System)
 2. Thermal Desorption Spectroscopy (TDS) System
 - HTDS-003 / HTDS-004
 3. RHEED (Reflection High-Energy Electron Diffraction)
 4. E-Beam Evaporator (AEV-3, AEV-11)
 5. High Vacuum Degas System
 6. Ultra High Temperature Infrared Heating Observation Confocal Laser Scanning Microscope
 7. Recipe Controlled Automatic Evaporation System
 8. Ceramic Crucible (Alumina / MgO / Zirconia / Yttria)

TCI-SEJIN CI

Address 1st floor 20 Sinmok-ro, Yangcheon-gu, Seoul, Republic of Korea

Tel 070-5213-5728

Fax 070-5213-5728

Web Site www.sejinci.co.kr

Contacts Seongju Lee

E-mail sjlee@sejinci.co.kr

Items TCI is a brand that has been specializing in reagents for more than 130 years and its quality is recognized by researchers around the world

Thermo Fisher Scientific Chemicals

Address 10F 281 Gwangpyeong-ro, Gangnam-gu, Seoul, Republic of Korea

Tel 1661-9555

Fax -

Web Site www.chemicals.thermofisher.kr

Contacts Sohyun Park

E-mail sohyun.park@thermofisher.com

Items Thermo Fisher Scientific's Chemicals Division provides high-quality reagents, solvents, and specialty chemicals for research, development, and manufacturing. With trusted brands like Acros Organics and Alfa Aesar, we support scientific innovation across academia, pharma, and industry. Our global network ensures reliable supply and consistent product performance for laboratories worldwide.

TS SCIENCE

Address #507 123 Digital-ro 26-gil, Guro-gu, Seoul, Republic of Korea

Tel 02-6969-7800

Fax 02-6969-7810

Web Site www.tsscience.co.kr

Contacts JiHwan Choi

E-mail jhchoi@tsscience.co.kr

Items Spectroscopy [UV, FTIR, PL, CD, CPL, Raman],
Chromatography [HPLC, UPLC, Prep-LC, SFE/C, GPC],
In-situ System [Temperature In-situ, Eletrochemical In-situ, Flow in-situ]

YK Tech Co., Ltd

Address Ace GwanggyoTower2cha, 1103Ho 91 Changnyong-daero 256beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea

Tel 010-9423-5176

Fax 070-4670-0619

Web Site www.yktech.biz/2015/main/main.php

Contacts TaeKyung Sung

E-mail sales@yktech.biz

Items Benchtop 90MHz NMR, Chiller, Shaker and etc

YMC KOREA Co.,Ltd.

Address Pangyo Global biz center B-1004ho 43 Changeop-ro, Sujeong-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Tel 031-603-1321

Fax 031-716-1630

Web Site www.ymckorea.com

Contacts HoonChul Kang

E-mail hc.kang@ymckorea.com

Items HPLC Columns, Glass Columns, Preparative HPLC systems, Continuous Chromatography systems, Commercial LC systems, Microreactor

YOUNG IN M-Tech

Address 2F, Gu-jung Bldg. 22 Apgujeong-ro 28-gil, Gangnam-gu, Seoul, Republic of Korea

Tel 02-6207-6710

Fax 02-6207-6723

Web Site www.younginmt.com

Contacts Jina-Jeon

E-mail jnjeon@younginmt.com

Items Bench-top NMR
Microwave synthesis system
Microwave acid digestion system
FT-IR
PFAS extraction system

Transportation

How to get CECO



■ By Airplane

■ Flight Routes (Incheon / Gimpo / Jeju → Gimhae International Airport)

Route	Time Required	Number of flights(per day)
Incheon Int'l Airport → Gimhae(Busan) Int'l Airport	1 hour	18
Gimpo Int'l Airport → Gimhae(Busan) Int'l Airport	1 hour	100
Jeju Int'l Airport → Gimhae(Busan) Int'l Airport	1 hour	57

■ Gimhae Int'l Airport → CECO (Limousine Bus)

Route	Time	First Bus	Last Bus
Gimhae Airport → Changwon	~40 min (every 20 min)	06:25	21:50
Changwon → Gimhae Airport	~40 min (every 20 min)	05:33	19:38

-Note: Schedules subject to change. More frequent service is available at Changwon Bus Terminal (5 min by car from CECO).

Transportation

▪ Direct Bus (Gimhae Int'l Airport → CECO)

Direction	Departure	Stops (Via)	Arrival
Airport → CECO	09:10	Jangyu-dong, Namsandong-dong, Changwon Hotel	10:05
	18:50		19:45
19:45	05:40	Namsandong-dong, Jangyu-dong	06:25
	11:30		12:15
	11:30	Changwon Hotel, Namsandong-dong, Jangyu-dong	15:15

▣ By Train(KTX)

Station	Distance / Time	Taxi Fare (USD)	City Bus Routes
Changwon Central Station	5 km / 10 min	~8	215, 220, 221
Changwon Station	6.5 km / 15 min	~9	CECO: BRT 5000, 109, 113 City 7 Mall: BRT 5000, BRT 6000, 109, 113, 710
Masan Station	9.7 km / 20 min	~13	CECO: BRT 5000, 103, 109, 113 City 7 Mall: BRT 5000, BRT 6000, 103, 109, 113, 710

▣ By Express Bus

Changwon ↔	Seoul	Daejeon / Gwangju	Daegu	Busan
Time	4 hours	4 hours	2 hours	hour

- Changwon Bus Terminal: 2 km (5 min by car, ~3 USD)
- City Bus: 103

Food

CITY7 MALL



Name	Mom's Touch
Menu	Hamburger
Contact	055-600-0996
Address	332, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	McDonald's
Menu	Hamburger
Contact	055-602-3800
Address	The City 7, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Shabuall
Menu	Shabu-shabu
Contact	0507-1378-5080
Address	Room A306, 3rd Floor, City 7, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Wonjo Ssambapjip
Menu	Ssambap (Korean wrap with rice and side dishes)
Contact	055-600-5240
Address	The City 7, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Bon Dosirak
Menu	Rice Meal Box
Contact	0507-1496-5282
Address	Room 120, Building G, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam

Food



Name	Jeongjik Yubu
Menu	Rice Meal Box
Contact	0507-0289-9107
Address	Room 155, Building G, 1st Floor, The City 7, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Hong Kong Banjeom 0410
Menu	Chinese Food
Contact	055-600-5236
Address	Jai, The City 7, 94, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Pizza Meokda
Menu	Pizza
Contact	055-600-5580
Address	Room W104, The City 7, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Haru & Scoo
Menu	Pork Cutlet
Contact	055-600-5428
Address	Haru & Scoo, Changwon City 7 Branch, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Heose Gimhap
Menu	Gimbap
Contact	0507-1445-5811
Address	Room 163, 1st Floor, Building G, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam

Food



Name	Dalkom Gimbal
Menu	Gimbal
Contact	0507-1325-5592
Address	320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Taiwan Sandwich Meijen
Menu	Sandwich
Contact	0507-1327-5758
Address	Room W-144, 1st Floor, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Subaekdang
Menu	Gukbap
Contact	0507-1393-6099
Address	1st Floor, Subaekdang, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Tanghwa Kungfu Malatang
Menu	Malatang
Contact	055-600-5950
Address	Room 301, City 7 Mall, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	Paris Baguette
Menu	Bread
Contact	055-600-5382
Address	320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam

Food



Name	Caffe Tiamo
Menu	Coffee
Contact	0507-1449-5331
Address	Room S201, City 7 Shopping Mall, 320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	The Coffee Bean
Menu	Coffee
Contact	055-600-5361
Address	320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam



Name	A Twosome Place
Menu	Coffee
Contact	055-600-5720
Address	320, Wonidaero, Seongsan-gu, Changwon-si, Gyeongnam

대한화학회와 함께, 미래의 화학자가 됩시다.

2025년부터 대한화학회는 학부생 회원 가입을 통해 미래 화학인재들이 학회에 보다 쉽게 가입하고 학술대회에 무료로 참여할 수 있는 제도를 마련하였습니다. 이와 같은 학문 공동체와의 교류를 통해 학부생들이 화학에 대한 자부심을 함양하고 소속감을 높일 수 있도록 하며, 나아가 대학원 진학에 대한 관심과 동기를 부여하고자 합니다. 또한 학부 시절부터 학술대회를 접함으로써 학문적 이해도를 제고하고, 학회 활동에 적극 참여함으로써 대한화학회의 회원 수 증대와 학문 공동체의 저변 확대에 기여하고자 합니다. 이에 따라 회원 여러분께서도 소속 학부생들에게 본 제도를 적극 안내하여 주시고, 학회 가입과 학술대회 참여를 독려하여 주시기 바랍니다. 많은 관심과 협조 부탁드립니다, 학부생들의 활발한 참여를 통해 학문 후속 세대가 한층 성장할 수 있기를 기대합니다.

대상

화학 및 화학관련 전공 학부 재학생

목적

1. 학문 공동체와의 교류 및 네트워크 확대
2. 화학에 대한 자부심 함양 및 소속감 고취
3. 학술대회 참여를 통한 학문적 이해도 제고
4. 회원 증대를 통한 학회 성장 기반 강화
5. 대학원 진학 및 연구 진로 탐색 기회 제공
6. 학문 후속세대 양성

연회비

1만원

학술대회 참가비

면제

※ 단, 학부생 회원 중 초록발표자는 연회비 50,000원 및 사전등록비 60,000원을 납부해야 합니다.



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동우화인켐은 글로벌 화학회사인 스미토모화학의 자회사이며, 핵심기술을 보유한 매출 2조원의 대기업으로서, 정보전자소재의 글로벌 리더로 성장하고 있습니다.

지속적인 연구개발과 체계적인 설비투자를 통해 차별화된 품질과 서비스를 제공하고, 회사 창립시부터 지켜온 이념인 윤리경영과 사회공헌을 바탕으로 업계 최고의 파트너, 동우화인켐으로 인정받겠습니다.