Detailed Schedule

Opening Ceremony & Plenary Lecture

Location: 3F, Yukun Hall

Friday Morning, May 29

Time	Item	Speaker	Title
Chair: Zifeng Ma			
08:30-09:10	**Opening Ceremony**		
Chairs: Chunming Xu Jinghong Li			
09:10-09:35	**PL**	**Buxing Han** *Institute of Chemistry, CAS*	Properties of Green Solvents and Applications in Green Chemistry
09:35-10:00	**PL**	**Suojiang Zhang** *Henan University*	2035 Vision: Ionic Liquid Matrices Beyond Solvents
10:00-10:20 Coffee Break			
Chairs: Jianji Wang Xiangping Zhang			
10:20-10:45	**PL**	**Wanbin Zhang** *Shanghai Jiao Tong University*	Recent Advances in Green Synthesis of Chiral Drugs
10:45-11:10	**PL**	**Patricia Hunt** *Victoria University of Wellington*	Quantum Chemical Insight into Cluster-Ion Behaviour in Ionic Liquid Electrospray Thrusters
11:10-11:35	**PL**	**Yunfeng Lu** *Beijing University of Chemical Technology*	Energy Harvesting and Utilization: From High-Performance Electrochemical Devices to Autonomous Navigation Therapeutics
11:35-12:00	**PL**	**Zhangxing Chen** *Eastern Institute of Technology, Ningbo*	Progress in Low-Carbon Hydrogen Production Technologies and Large-Scale Underground Hydrogen Storage
12:00-13:30 Lunch			

Plenary Lecture & Awards & Closing Ceremony

Location: 3F, Yukun Hall

Sunday Morning, May 31

Time	Item	Speaker	Title
Chairs: Chuan Zhao Zhimin Liu			
09:00-09:25	PL	**Ulrica Edlund** *KTH Royal Institute of Technology*	3D Spatiochemical Mapping of Biopolymers in Biomass Processing
09:25-09:50	PL	**Xiaohua Lu** *NanjingTech University*	Micro-Interfacial Thermodynamics and Transport
09:50-10:15	PL	**Minhua Shao** *The Hong Kong University of Science and Technology*	Key Materials for Fuel Cells and Electrolyzers
10:15-10:35 Coffee Break			
Chairs: Ulrica Edlund Minhua Shao			
10:35-11:00	PL	**Ralf Ludwig** *Universitaet Rostock*	Hydrogen Bonding Motifs in Hydroxy- and Carboxy-Functionalized Ionic Liquids
11:00-11:25	PL	**Chuan Zhao** *University of New South Wales*	Bridging the Gap in Earth-Abundant Electrocatalysts for Hydrogen Energy Conversion Systems
Chair: Jianji Wang			
11:25-12:00	**Awards & Closing Ceremony**		

Session 1

AI-Driven Ionic Liquid Design and Functional Modulation

Chairs: Xiaoyan Ji, Zhiwen Qi, Jianling Zhang
Convenors: You Han, Xiaomin Liu, Zhijian Zhao

Location: 2F, 666 Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Yinglong Wang Feng Huo			
13:30-13:50	**KL**	**Xiaoyan Ji** *Luleå University of Technology*	Modeling Complex Fluids
13:50-14:10	**KL**	**Zhen Zhou** *Henan University*	AI-Powered Green Ammonia Synthesis Technology
14:10-14:25	**IL**	**Liwen Mu** *Nanjing Tech University*	Functional design for high-viscosity fluids at the interface towards lubrication application
14:25-14:40	**IL**	**Kun Dong** *Institute of Process Engineering, CAS*	Exploring the Structure-Property Relationship of Ionic Liquids Using Machine Learning
14:40-14:55	**IL**	**Guokai Cui** *Zhejiang University of Technology*	AI-Driven Investigations on CO_2 Absorption Performance of Functionalized Ionic Liquids
14:55-15:10	**IL**	**Yaqin Zhang** *Hehai University*	From Electronic-Structure Engineering to Machine-Learning-Accelerated Design of Two-Dimensional Electrocatalysts
15:10-15:30 Coffee Break			
Chairs: Zhen Zhou Yanlei Wang			
15:30-15:50	**KL**	**Huabin Xing** *Zhejiang University*	Automation and AI-Enabled Design of Ionic Porous Materials for Gas Separations
15:50-16:10	**KL**	**Chunran Chang** *Xi'an Jiaotong University*	Frustrated Ion Pairs for CO_2 Cycloaddition
16:10-16:30	**KL**	**Xianqiang Huang** *Liaocheng University*	Polyacid-Catalyzed Valorization of Sulfides
16:30-16:45	**IL**	**Cheng Lian** *East China University of Science and Technology*	Mesoscopic Thermodynamics for Battery Design
16:45-17:00	**IL**	**Weilu Ding** *Institute of Process Engineering, CAS*	Multilevel AI-Driven Prediction and Generation of Ionic Liquid
17:00-17:15	**IL**	**Dongliang Jin** *Changzhou University*	Predicting the Thermodynamics of Ionic Liquids at Metal Surfaces Using Virtual Thomas-Fermi Fluids
17:15-17:25	**OL**	**Mingzhen Shi** *Northwest University*	Efficient Hydrogen Sulfide Separation from Carbon Dioxide Achieved by Carbonyl-Functionalized Ionic Liquids for Natural Gas Upgrading
17:25-17:35	**OL**	**Mengyang Qu** *Kanazawa University*	In Silico Discovering of Novel Cationic Cores in Ionic Liquids for Cellulose Dissolution
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Hao Li Xiaomin Liu			
08:30-08:50	**KL**	**Zhiwen Qi** *East China University of Science and Technology*	Strategies for Solvent Screening in Process Intensification via Integrated Multi-Scale and High-Throughput Methods
08:50-09:10	**KL**	**Hao Li** *Tohoku University*	Digital Materials Ecosystem: A Digital Platform Driven Closed-Loop Framework for AI+ Materials
09:10-09:25	**IL**	**Xin Ge** *Fuzhou University*	Intelligent Design of High-Performance Functional Wet Electronic Chemicals
09:25-09:40	**IL**	**Zhijun Zhao** *Beijing Institute of Petrochemical Technology*	Experiment and Simulation on Solubility of CO_2 and H_2S in Ionic Liquids and Deep Eutectic Solvents
09:40-09:55	**IL**	**Chen Chen** *Zhengzhou University*	Fe(III)-Based Deep Eutectic Solvent-Modified Nano Barium Titanate Composite Hydrogel for Photothermal-Sonodynamic Synergistic Treatment of Periodontitis
09:55-10:05	**OL**	**Jinlong Li** *Changzhou University*	Absorption Refrigeration Cycle System: Screening, Experiment and Performance Evaluation of Ionic Liquid Working Pairs
10:05-10:15	**OL**	**Yunlei Shi** *Henan Normal University*	Ionic Liquid-Assisted Emulsifier Preparation and Temperature/CO_2-Responsive Pickering Emulsions
10:15-10:30 Coffee Break			
Chairs: Zhiwen Qi You Han			
10:30-10:50	**KL**	**You Han** *Tianjin University*	AI Empowers the Reaction Mechanism Study in Complex Chemical Processes
10:50-11:10	**KL**	**Tiancheng Mu** *Renmin University of China*	AI Aided Design Deep Eutectic Solvents and Electrocatalysts
11:10-11:25	**IL**	**Gangqiang Yu** *Beijing University of Technology*	Data- and Mechanism-Driven Molecular Thermodynamic Modeling of Ionic Liquids and Deep Eutectic Solvents for Separation Processes
11:25-11:40	**IL**	**Xin Chang** *Tianjin University*	Predictive Models Empowering Green and Sustainable Catalyst Design for Alkane Dehydrogenation
11:40-11:55	**IL**	**Yanzhen Zheng** *Jimei University*	Characterization of Ionic Liquid-Cosolvent Microstructures and Their Functional Application in Food Waste Valorization
11:55-12:10	**IL**	**Jianguang Qi** *Qingdao University of Science and Technology*	Prediction of Physical Properties of Ionic Liquids Based on Machine Learning
12:10-13:30 Lunch			

Session 2

Ionic Liquids for Green Catalysis and Reaction Engineering

Chairs: Chunshan Li, Xianghai Meng, Yong Wang
Convenors: Cheng Lian, Ruixia Liu, Yunxiang Pan

Location: 3F, Qiushui Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Haoran Li Chunshan Li			
13:30-13:50	**KL**	**Haoran Li** *Zhejiang University*	Applications of Ionic Liquids and Oxoammonium Cations in Oxidation Reactions
13:50-14:10	**KL**	**Zhaofu Fei** *Swiss Federal Institute of Technology Lausanne*	Decoding Lignin Depolymerization: From “Water of Life” to Jet Fuel
14:10-14:30	**KL**	**Chunshan Li** *Institute of Process Engineering, CAS*	Mild Ionic Liquid Catalytic System Construction and Application
14:30-14:45	**IL**	**Rong Tan** *Hunan Normal University*	Interfacial Ionic Liquid Bridge Maximizes the Interface Effects in Pickering Emulsion Catalysis
14:45-15:00	**IL**	**Huiyong Wang** *Henan Normal University*	Structure-Performance Relationships in Two-Dimensional Covalent Organic Frameworks for Photocatalytic CO_2 Reactions
15:00-15:15	**IL**	**Weizhong Zheng** *East China University of Science and Technology*	Additive-Mediated Interfacial Mass Transfer Enhancement of H_2SO_4 Catalyzed C_4 Alkylation from Molecular Design to Industrial Intensification
15:15-15:35 Coffee Break			
Chairs: Baohua Xu Xiaofu Sun			
15:35-15:50	**IL**	**Baohua Xu** *Beijing Institute of Technology*	Catalytic Conversion of C1 Molecules at Ionic Liquid Interfaces
15:50-16:05	**IL**	**Xinjiang Cui** *Lanzhou Institute of Chemical Physics, CAS*	Heterogeneous Catalysts for Carbonyl Chemicals Synthesis
16:05-16:20	**IL**	**Kuan Huang** *Fuzhou University*	Construction and Application of Oil-Soluble Ionic Liquid-Based Catalytic System for Slurry-Phase Hydrodeoxygenation of Oils and Fats
16:20-16:35	**IL**	**Xiaofu Sun** *Institute of Chemistry, CAS*	Electrochemical Conversion of Renewable Resource Molecules
16:35-16:50	**IL**	**Yuchao Li** *Shandong University of Technology*	NHC-Mediated Oxidative Esterification of Aldehydes: From Ionic Liquid to Porous Ionic Liquid Catalysis
16:50-17:05	**IL**	**Zhihui Zhang** *Changzhou University*	Adsorption Electro-Neutralization of Ionic Liquids in Thorium-MOFs for Enhanced Photocatalytic CO_2 Reduction
17:05-17:20	**IL**	**Chengwei Liu** *Shanghai Jiao Tong University*	An Imidazolium-Based Ionic Liquid Composite Catalyst for Coupling CO_2 with Epoxides to Cyclic Carbonates
17:20-17:35	**IL**	**Lijuan Shi** *Wuhan Institute of Technology*	Ionic Liquid Framework Materials for Low-Energy CO_2 Capture and Mild Conversion
17:35-17:50	**IL**	**Zhengang Ke** *Shihezi University*	Study on Hydrogen-Bond Ionic Liquid Mediated Transition Metal-Catalyzed Amination Reaction
17:50-18:00	**OL**	**Wei Qian** *Anhui University of Science and Technology*	Synthesis of Bio-Based Polycarbonate Catalyzed by Ionic Liquids
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Youting Wu Xianghai Meng			
08:30-08:50	**KL**	**Youting Wu** *Nanjing University*	Ionic liquid-Mediated Reactive Extraction Coupling Processes
08:50-09:10	**KL**	**Wei Zhang** *East China Normal University*	Microenvironment-Controlled Low-Temperature Plastic Waste Upcycling by Ionic Liquids
09:10-09:30	**KL**	**Xianghai Meng** *China University of Petroleum (Beijing)*	Application of Ionic Liquids in Petroleum Processing
09:30-09:45	**IL**	**Yingying Cao** *Henan University*	Catalytic Preparation of Cyclopropane-Based High-Energy Fuels from Olefins
09:45-10:00	**IL**	**Lili Deng** *Shenyang University of Technology*	Construction of Spatial Microenvironment in Metalloporphyrin Ions Frameworks for Enhancing Urea Alcoholysis
10:00-10:15	**IL**	**Lu Chen** *Shanghai Advanced Research Institute, CAS*	Engineering Green Catalytic Pathways through Rational Design and *In-Situ* Techniques
10:15-10:30 Coffee Break			
Chairs: Rui Huang Hui Wang			
10:30-10:45	**IL**	**Rui Huang** *Dalian Institute of Chemical Physics, CAS*	Redesigning Hydrogen-Involving Catalytic Processes
10:45-11:00	**IL**	**Saisai Wang** *Zhejiang University of Technology*	Regulation of Single-Atom Spatial Localization by Ionic Liquids: A Strategy for Enhancing Mass Transfer in Acetylene Hydrochlorination
11:00-11:15	**IL**	**Yun Tian** *Zhengzhou University*	AI-Enhanced Multiscale Simulation for Accelerated Development of High-Performance Solid-State Electrolytes
11:15-11:30	**IL**	**Yanwei Cao** *Lanzhou Institute of Chemical Physics, CAS*	Creation of Ionic Liquids for Carbonylation
11:30-11:40	**OL**	**Sibo Chen** *Shaoxing University*	Plasma-Assisted Nitrogen Fixation and Its High-Value Nitrogen Conversion
11:40-11:50	**OL**	**Zongge Li** *Liaocheng University*	Enhancement of Electrocatalytic Reaction Performance by Synergistic Effects of Single-Atom and Nanoparticles/Clusters
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Tierui Zhang Ye Liu			
13:30-13:50	**KL**	**Tierui Zhang** *Technical Institute of Physics and Chemistry, CAS*	Defective Layered Double Hydroxide Based Nanostructured Photocatalysts for N_2 Fixation
13:50-14:10	**KL**	**Ye Liu** *East China Normal University*	Ionic P,N-hybrid Phosphine for Pd-Catalyzed Hydroaminocarbonylation-Cyclization Tandem Reaction for the Synthesis of α,β-Unsaturated γ-Lactams from Alkynol
14:10-14:25	**IL**	**Feng Han** *Shandong Agricultural University*	Functionalized Ionic Liquids Catalyzed Transformation of Alcohols in Green Solvent
14:25-14:40	**IL**	**Ran Liu** *Hebei University of Science and Technology*	Ionic Liquids for Deep Oxidative Desulfurization: From Catalytic Reaction Media to Interfacial and Microenvironment Regulation
14:40-14:55	**IL**	**Wei Dai** *Zhejiang Normal University*	Study on the Liquid-Phase Adsorption Performance of Microporous Bimetallic MOF-on-MOF
14:55-15:10	**IL**	**Wang Hao** *Kanazawa University*	Synthesis of Mixed Cellulose Esters in EmimOAc/DMSO Co-Solvent System: Effect of Reagent Addition Sequence on Regioselectivity and Physical Properties
15:10-15:30		**Coffee Break**	
Chairs: Wei Jiang Lei Shi			
15:30-15:45	**IL**	**Hang Xu** *Henan University of Science and Technology*	Mechanism and Kinetics of Desulfurization of Persulfate by Cobalt-Containing Ionic Liquids
15:45-16:00	**IL**	**Lei Li** *Anyang Normal University*	Construction of Terpyridine-Based Coordination Polymer for Degradation of Organic Dyes
16:00-16:15	**IL**	**Wei Jiang** *Jiangsu University*	Acidic Deep Eutectic Solvents for Coupled Oxidative Desulfurization and Sulfur Upcycling
16:15-16:30	**IL**	**Huazhen Chang** *Renmin University of China*	Catalysis Decomposition of Carbamate during Amine-Based CO_2 Capture
16:30-16:45	**IL**	**Lei Shi** *Shenyang University of Chemical Technology*	Efficient Synthesis of Carbonates Catalyzed by Ionic Liquids and the Industrial Applications
16:45-17:00	**IL**	**Yuying Dang** *Lanzhou Institute of Chemical Physics, CAS*	Application of Carbon Surface Ionic Liquid Reactors in Catalytic Reactions
17:00-17:10	**OL**	**Baojian Zhang** *Hebei University of Science and Technology*	Long-Term Purification Performance of Diesel Engine Exhaust by Ordered Macroporous Integral Catalysts under Green Catalytic Guidance
18:00		**Dinner**	

Session 3

Ionic Liquid-Mediated Low-Carbon Separation Technology

Chairs: Quanfu An, Wanqin Jin, Lin Zhang
Convenors: Liang Wu, Zhi Xu, Shaojuan Zeng

Location: 3F, Yukun B Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Gongping Liu Shuangjiang Luo			
13:30-13:50	**KL**	**Lin Zhang** *Zhejiang University*	Nanofiltration Membranes for Ion-Selective Separation
13:50-14:10	**KL**	**Zongbi Bao** *Zhejiang University*	Ionic Liquid-Mediated Extraction Separation of Bile Acid Isomers
14:10-14:25	**IL**	**Xuehua Ruan** *Dalian University of Technology*	Structure Optimization and Synthesis for Imidazole-Functionalized Polyimide Membrane Materials
14:25-14:40	**IL**	**Kecheng Jie** *Nanjing University*	Porous Liquids for Gas Separation and Conversion
14:40-14:55	**IL**	**Shilong Li** *Jinggangshan University*	Atomic-Level Flatness Driving the Growth of Ultrathin Two-Dimensional MOF Films
14:55-15:10	**IL**	**Jing Yang** *Hangzhou Normal University*	Polymer Membrane for Ionic Liquid Separation and Utilization
		15:10-15:30	**Coffee Break**
Chairs: Xuehua Ruan Kecheng Jie			
15:30-15:50	**KL**	**Haihui Wang** *Tsinghua University*	MXene Membranes for Separation
15:50-16:05	**IL**	**Gongping Liu** *Nanjing Tech University*	Mixed-Matrix Membranes for Energy-Efficient Molecular Separation
16:05-16:20	**IL**	**Weiyi Zhang** *Donghua University*	Task-Specific Adsorbents for Radionuclides and Precious Metals
16:20-16:35	**IL**	**Linglong Shan** *Institute of Process Engineering, CAS*	New Process for Green and Efficient Separation of Rare Earths
16:35-16:45	**OL**	**Zhiyong Xu** *Kunming University of Science and Technology*	Design of Ionic Liquid/Amine Composite Absorbents and Study on Acidic Gas Capture
16:45-16:55	**OL**	**Xinyi Wan** *Zhejiang University*	Healing Intercrystalline Defects of ZIF-8 Membrane by Hydrophobic and Sterically Hindered Ionic Liquid for Humid Propylene/Propane Separation
		19:00	**Dinner**

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Shaojuan Zeng Yuan Peng			
08:30-08:50	**KL**	**Zhigang Lei** *Shihezi University / China University of Petroleum (Beijing)*	Extraction of Polycyclic Aromatic Hydrocarbons from Fluid Catalytic Cracking Diesel with Ionic Liquids and Predictive Molecular Thermodynamics
08:50-09:10	**KL**	**Xiangping Zhang** *China University of Petroleum (Beijing)*	Molecular Design of Ionic Liquids for CO_2 Capture and Utilization
09:10-09:25	**IL**	**Xili Cui** *Zhejiang University*	Research on Ionic Materials and Gas Adsorption Separation
09:25-09:40	**IL**	**Duanjian Tao** *Jiangxi Normal University*	Regulation of Ionic Liquids Microenvironment and Process Intensification
09:40-09:55	**IL**	**Lingyao Wang** *Zhejiang Normal University*	Carborane Anion Hybrid Metal–Organic Frameworks for Gas Separation
09:55-10:10	**IL**	**Peiwen Wu** *Jiangsu University*	Reaction-Intensified Selective Separation and Resource Recovery of Heterocyclic Compounds from Diesel Fuel
10:10-10:25 Coffee Break			
Chairs: Xili Cui Duanjian Tao			
10:25-10:45	**KL**	**Wanqin Jin** *Nanjing Tech University*	Design and Preparation of MOF-Based Membranes for Molecular Separation
10:45-11:00	**IL**	**Shaojuan Zeng** *Institute of Process Engineering, CAS*	Ionic Liquid-Based Materials for CO_2 Capture Applications
11:00-11:15	**IL**	**Yuan Peng** *Dalian Institute of Chemical Physics, CAS*	Microporous Framework Membranes and Dual Functional Gas Separation Applications
11:15-11:30	**IL**	**Wenbo Zhao** *Kunming University of Science and Technology*	Optimal Control for The Capture Process of Acid Gas
11:30-11:45	**IL**	**Wentao Bi** *Nanjing Normal University*	Construction of In-situ Deep Eutectic Systems and Their Application in Green Separation
11:45-11:55	**OL**	**Chao Pan** *China University of Petroleum (Beijing)*	Sustainable Intensification Separation of Isopropyl Acetate/Isopropanol Using Ionic Liquid: Thermodynamic Mechanism and Process Design
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Tianxiang Zhao Yinge Bai			
13:30-13:50	**KL**	**Yanzhao Yang** *Shandong University*	Application of Novel Ionic Liquids in Precious Metal Separation
13:50-14:05	**IL**	**Zhiyong Li** *Henan Normal University*	Light-Gated CO_2 Capture and Release by Smart Ionic Liquid Microemulsions
14:05-14:20	**IL**	**Guoxuan Li** *Qingdao University of Science and Technology*	Separation of Naphthalene Aromatic Hydrocarbons by Cyclodextrin-Based Supramolecular Ionic Liquid
14:20-14:35	**IL**	**Xiaomin Zhang** *Nanjing University*	Separation of Carbon Dioxide and Hydrogen Sulfide Enhanced by Ionic Medium
14:35-14:50	**IL**	**Jinxiao Dou** *University of Science and Technology Liaoning*	Insight into the Synergistic SO_2 Removal by Activated Carbon Loaded with Amino Acid-Based Deep Eutectic Solvents: Mechanism, DFT Calculation
14:50-15:05	**IL**	**Chenhua Shu** *Shangrao Normal University*	Synthesis of a Porous Deep Eutectic Solvent-Based on Supramolecular Deep Eutectic Solvent and Its Application in Extractive-Oxidative Desulfurization
		15:05-15:25	**Coffee Break**
Chairs: Zhiyong Li Guoxuan Li			
15:25-15:45	**KL**	**Weize Wu** *Beijing University of Chemical Technology*	Machine Learning Prediction of CO_2 Solubility in Ionic Liquids and Deep Eutectic Solvents
15:45-16:05	**KL**	**Ibrahim El-Tantawy El-Sayed** *Menoufia University*	Ionic Liquids: Driving Innovation in Environmental Sustainability and Biomass Transformation
16:05-16:20	**IL**	**Tianxiang Zhao** *Guizhou University*	Ionic Framework Materials for CO_2 Gas Separation and Conversion
16:20-16:35	**IL**	**Yinge Bai** *Institute of Process Engineering, CAS*	Flow-Transport Phenomena and Engineering Scale-Up Applications in Ionic Liquid-Based Carbon Capture Process
16:35-16:50	**IL**	**Chao Guo** *Chengdu University of Technology*	Computer-Aided Ionic Liquid Design Integrated with Process Parallel Optimization for Enhanced C_4 Hydrocarbon Separation
16:50-17:05	**IL**	**Dechao Wang** *Xi'an University of Science and Technology*	Regulation of Nanoconfined Interfacial Microenvironment and Enhanced Mass Transfer Mechanism in Porous Liquids for Low-energy Gas Separation
		18:00	**Dinner**

Session 4

Ionic Liquid-Based Photochemical / Electrochemical Transformation Processes

Chairs: Jie Fu, Zhimin Liu, Xiaowei Yang
Convenors: Guiyuan Jiang, Guidong Yang, Mingfei Shao

Location: 3F, Yiya Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Guiyuan Jiang Jie Fu			
13:30-13:50	**KL**	**Zhimin Liu** *Institute of Chemistry, CAS*	Ionic Liquid Catalysis: Principal and Applications
13:50-14:10	**KL**	**Pengju Pan** *Zhejiang University*	Polymeric Ionogels Controlled by Chain Crystallization and Microphase Separation Towards Sensing Application
14:10-14:25	**IL**	**Xiaofeng Cui** *Anhui Normal University*	Enhancement of the Reaction Process Based on the Development of Photoelectrocatalytic Devices
14:25-14:40	**IL**	**Hefeng Cheng** *Shandong University*	Plasmon-Driven Highly Selective CO_2 Photoreduction to C_2H_4 on Ionic Liquid-Mediated Copper Nanowires
14:40-14:55	**IL**	**Baoyou liu** *Hebei University of Science and Technology*	Ionic Liquid Prepared Carbon Quantum Dots and Their Applications in Emerging Contaminant Detection and Organic Dye Degradation
14:55-15:10	**IL**	**Tao Xie** *Xi'an Jiaotong University*	Construction of LDH-Derived Catalyst and the Photothermal Catalytic Characteristics in CO_2 Methanation Reaction
15:10-15:30 Coffee Break			
Chairs: Zhimin Liu Pengju Pan			
15:30-15:50	**KL**	**Jie Fu** *Zhejiang University*	Electro-Catalytic CO_2 Reduction to Syngas
15:50-16:05	**IL**	**Ningqiang Zhang** *Northeastern University*	Catalyst Design for Photothermal Reverse Water-Gas Shift Reaction
16:05-16:20	**IL**	**Kaihong Chen** *Nanjing University*	Ionic Liquid-Promoted Photocatalytic CO_2 Reduction
16:20-16:35	**IL**	**Bin Wang** *Jiangsu University*	Bismuth-Based Artificial Photosynthesis Materials: Design and Reaction Mechanism
16:35-16:50	**IL**	**Neng Chen** *Hefei University*	Multifunctional Carbon-Based Materials for Hydrogen Electrocatalysis with Ionic Liquid Regulation
16:50-17:05	**IL**	**Yuhan Wu** *Henan Normal University*	Interfacial Electrocatalytic Conversion for Waste Resource Utilization
17:05-17:20	**IL**	**Yong Zheng** *Anyang Institute of Technology*	Electrolysis of Aluminum from Ionic Liquids with Inert Anodes
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Pengju Pan Baowang Lu			
08:30-08:50	**KL**	**Guidong Yang** *Xi'an Jiaotong University*	Air-Water Green Ammonia Synthesis Engineering
08:50-09:10	**KL**	**Rufan Zhang** *Tsinghua University*	High-Performance Photothermal Regulation Materials
09:10-09:25	**IL**	**Chengcheng Liu** *Shandong University*	Interface-Engineered Porous Frameworks for Photocatalytic CO_2 Conversion
09:25-09:40	**IL**	**Jiaqi Feng** *China University of Petroleum, Beijing*	Design and Mechanism Research of Electrocatalytic CO_2 Reduction Catalysts
09:40-09:55	**IL**	**Peng Chen** *Guizhou University*	Development of a Multi-Scale Polarity Framework and Mechanistic Investigation of Nitrogen-Containing Molecular Transformations
09:55-10:15 Coffee Break			
Chair: Rufan Zhang			
10:15-10:35	**KL**	**Baowang Lu** *National Institute of Clean-and-Low-Carbon Energy*	Breaking the Temperature Barrier: Low-Temperature CO_2 Methanation for Efficient Synthetic Natural Gas Production
10:35-11:50	**IL**	**Weiqiang Zhang** *Liaocheng University*	Cluster Structure Engineering and Interfacial Synergistic Catalysis: Research on Photo/Electrocatalytic Energy Conversion
10:50-11:05	**IL**	**Aoxuan Wang** *Tianjin University*	Key Materials Research for Dynamics of Magnesium Metal Secondary Batteries
11:05-11:15	**OL**	**Zhuohang Zhang** *Sun Yat-Sen University*	Balancing CO_2 Absorption Capacity and Kinetics in Ionic Liquid of Deep Eutectic Solvent: Insights from COSMO-RS and Molecular Dynamics
11:15-13:30 Lunch			

Session 5

Ionic Liquid-Based Biochemical Engineering and Intelligent Drug Delivery

Chairs: Haijia Su, Long Liu, Wei Wei
Convenors: Jian Yin, Yao Chen, Yuanhui Ji, Jian Sun, Shan Wu

Location: 2F, Lemei Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Long Liu Kosuke Kuroda			
13:30-13:50	**KL**	**Long Liu** *Jiangnan University*	Bioproduction of Functional Food Fngredients by Microbial Cell Factories
13:50-14:10	**KL**	**Kosuke Kuroda** *Kanazawa University*	Drinkable Ionic Liquids
14:10-14:25	**IL**	**Yao Chen** *Institute of Process Engineering, CAS*	Crystalline Immobilization Biocatalysis
14:25-14:40	**IL**	**Feng Cheng** *Zhejiang University of Technology*	Intelligent Construction of Bio-Inorganic Amination Systems
14:40-14:55	**IL**	**Zhansheng Wu** *Xi'an Polytechnic University*	Construction of Ginsenoside Sustained-release System and Its Anticancer Activity
14:55-15:10	**IL**	**Aitao Li** *Hubei University*	Development of Efficient Biosynthetic Systems for Nylon 66 Monomers
15:10-15:25	**IL**	**Shuwen Liu** *Institute of Microbiology, CAS*	Biosynthesis and Industrial Production of Chemicals
15:25-15:35 Coffee Break			
Chairs: Feng Xu Zhiguo Zhang Gang Xiao			
15:35-15:55	**KL**	**Feng Xu** *Beijing Forestry University*	Preparation and Utilization of Cellulose Based Materials
15:55-16:15	**KL**	**Zhiguo Zhang** *Zhejiang University*	Light Driven Organic Synthesis (LDOS): Oxidation with Molecular Oxygen
16:15-16:35	**KL**	**Haijia Su（Gang Xiao）** *Beijing University of Chemical Technology*	Chem-Bio Synergistic Catalysis for the Utilization of Waste Carbon Resources
16:35-16:50	**IL**	**Chin-Yu Chen** *Hubei University*	Cryo-EM Visualization of Enzyme Dynamics Across Ionic and Reaction Environments
16:50-17:05	**IL**	**Jiaoqi Gao** *Dalian Institute of Chemical Physics, CAS*	Repurposing *Ogataea polymorpha* into a Superior Microbial Platform for Bio-Productions
17:05-17:20	**IL**	**Yunting Liu** *Hebei University of Technology*	Unconventional Media-Enabled Intensification of Enzymatic Processes
17:20-17:35	**IL**	**Lidan Ye** *Zhejiang University*	Improving Biocatalysis and Biosynthesis by Protein Engineering
17:35-17:50	**IL**	**Qi Han** *RMIT University*	Ionic Liquids for Protein Crystallization and Oral Peptide Delivery
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Jiali Zhai Yuhong Huang			
08:30-08:50	**KL**	**Jiali Zhai** *RMIT University*	Ionizable Lipid Nanoparticles with Structural Insights for Targeted mRNA Delivery
08:50-09:05	**IL**	**Yuhong Huang** *Institute of Process Engineering, CAS*	Artificial Cascade Ionozyme for the Direct Conversion of CO_2 to Valuable Products
09:05-09:20	**IL**	**Xinyu Liu** *Peking University*	Green Assembly and Delivery Enhancement of Protein Therapeutics
09:20-09:35	**IL**	**Yingzi Cui** *Institute of Process Engineering, CAS*	Dissecting CoxsackieVirus-Host Interactions for Oncolytic Virus Engineering
09:35-09:50	**IL**	**Catarina Almeida** *University of Aveiro*	A Three-Phase Partitioning Systems-Based Platform for the Selective Recovery of Immunoglobulin Y (IgY)
09:50-10:05	**IL**	**Hongguang Zhang** *Institute of Process Engineering, CAS*	Solar-Driven Sustainable Synthesis of Value-Added Chemicals and Biofuels
10:05-10:20 Coffee Break			
Chairs: Jingwen Zhou Yajun Wang			
10:20-10:40	**KL**	**Jingwen Zhou** *Jiangnan University*	Production of Steroids by Synthetic Biology
10:40-11:00	**KL**	**Yajun Wang** *Zhejiang University of Technology*	Engineering of Imine Reductase for Asymmetric Synthesis of Chiral Naphthyl Alkylamines
11:00-11:15	**IL**	**Jiafu Shi** *Tianjin University*	Enzyme-Photo-Coupled Biomanufacturing Processes
11:15-11:30	**IL**	**Zhengyao Zhang** *Dalian University of Technology*	A Novel ZnO_2 Thermosensitive Hydrogel For Multifunctional Bone Regeneration Microenvironment Construction
11:30-11:45	**IL**	**Maria Mendes** *University of Aveiro*	Ionic Liquid-Based Aqueous Biphasic Systems for Improved Cancer Biomarker Detection in Microfluidic Devices
12:00-13:30 Lunch			

Session 6

Ionic Liquids for Advanced Energy Storage and Hydrogen Energy-A

Chairs: Meicheng Li, Zhenxing Liang, Yan Yu
Convenors: Shimou Chen, Weihua Chen, Shibin Yin, Chaofeng Zhang, Haitao Zhang

Location: 3F, VIP A Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Junfeng Rong Zhibo Ren			
13:30-14:00	KL	**Jingke Mo** *Huairou Laboratory*	In Situ Visualization of Electrochemical Reactions in PEM Water Electrolyzers
14:00-14:30	KL	**Xiaotao Ding** *Scyn.X*	Key Technologies and Engineering Applications of PEM Water Electrolysis for Hydrogen Production
14:30-15:00	KL	**Jun'e Zhu** *Beijing Nowogen Technology Co., Ltd.*	Research Progress and Practical Application of High-Power Fuel Cells
15:00-15:30 Coffee Break			
Chairs: Jingke Mo Xiaotao Ding			
15:30-16:00	KL	**Junfeng Rong** *Sinopec Research Institute of Petroleum Processing Co., Ltd.*	Development of Anodic and Cathodic Catalysts with High-Efficiency for AEM Water Electrolysis
16:00-16:30	KL	**Kun Han** *SPIC Science and Technology Research Institute Co., Ltd.*	Research and Practical Application of Reformed Methanol Fuel Cell
16:30-17:00	KL	**Zhibo Ren** *Huaneng Clean Energy Research Institute*	Renewable Energy-Powered Dynamic Electrolytic Hydrogen Production Technology Development & Demonstration
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Yang Hou Jianguo Liu			
08:30-08:50	**KL**	**Lilong Jiang** *Fuzhou University*	Low-Temperature Efficient Ammonia Cracking for Hydrogen and Electricity Generation
08:50-09:10	**KL**	**Zhonghua Xiang** *Beijing University of Chemical Technology*	Process Intensification of Polymer Oxygen Electrode
09:10-09:25	**IL**	**Jieqiong Shan** *City University of Hong Kong*	Engineering Inter-Site Synergy in Atomic-Scale Catalysts for Sustainable Electrocatalysis
09:25-09:40	**IL**	**Linda Zhang** *Tohoku University*	Lattice Responses and Adsorption Dynamics of Hydrogen Isotopologues in a Flexible Triazolate MOF
09:40-09:55	**IL**	**Yawei Li** *Shanxi University*	Application of Ionic Liquids to Enhance the PEM Fuel Cell Performance
09:55-10:20 Coffee Break			
Chairs: Lilong Jiang Zhonghua Xiang			
10:20-10:40	**KL**	**Yang Hou** *Zhejiang University*	Interfacial Engineering and Regulatory Mechanisms for Electrolytic Water Splitting to Hydrogen Based on the Synergy of Hydrogen Bond Network Reconstruction and Proton Transport
10:40-11:00	**KL**	**Jianguo Liu** *North China Electric Power University*	Engineering the Triple-Phase Boundary for High-Performance PEM Fuel Cells
11:00-11:15	**IL**	**Min Wang** *China University of Petroleum (East China)*	Towards Addressing Fundamental Manufacturing Questions for Polymer Electrolyte Membrane Fuel Cells
11:15-11:30	**IL**	**Meigui Xu** *Nanjing Tech University*	Materials Design and Scalable Fabrication of Intermediate-Low Temperature Solid Oxide Fuel Cells (SOFCs)
11:30-11:45	**IL**	**Peijian Yan** *Liaocheng University*	Research and Development of Methanol Reforming Hydrogen Fuel Cell Systems
11:45-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Jianglan Shui Nicholas Musyoka			
13:30-13:50	**KL**	**Jianguo Wang** *Zhejiang University of Technology*	Ionic Liquid-Modified Catalyst Promotes Electrosynthesis of Hydrogen Peroxide
13:50-14:10	**KL**	**Fengxiang Zhang** *Dalian University of Technology*	Preparation and Fuel Cell Performance of Poly(arylene) Anion Exchange Membranes Regulated by Free Volume and Amphiphilic Dual Side Chains
14:10-14:25	**IL**	**Zhenye Kang** *Hainan University*	Synergistic Optimization of Intrinsic Charge and Heat at Interfaces in Proton Exchange Membrane Water Electrolyzers
14:25-14:40	**IL**	**Bingxing Zhang** *Zhejiang University*	Sub-Nanometer Catalytic Interface Coupling for Hydrogen-Based Energy Molecule Conversion
14:40-14:55	**IL**	**Jianchuan Wang** *Chongqing University*	Supramolecular Polymer Framework Ion Exchange Membrane
14:55-15:10	**IL**	**Konggang Qu** *Liaocheng University*	Research on Energy-Saving Hydrogen Production Assisted by Electrocatalytic Hydrazine Oxidation
15:10-15:30 Coffee Break			
Chairs: Jianguo Wang Fengxiang Zhang			
15:30-15:50	**KL**	**Jianglan Shui** *Beihang University*	Performance Enhancement of Traditional Hydrogen Storage Materials
15:50-16:10	**KL**	**Nicholas Musyoka** *University of Nottingham Ningbo China*	Power-to-X: Unlocking Hydrogen Storage and Distribution Solutions
16:10-16:25	**IL**	**Guanxiong Wang** *Shenzhen Academy of Aerospace Technology*	Key Technology Research on AEM Electrolysis Materials and Membrane Electrode Assembly
16:25-16:40	**IL**	**Baoguang Mao** *Beijing University of Chemical Technology*	Multiscale Surface and Interface Engineering, Device Integration, and Cross-Sector Applications of Green Hydrogen Electrodes
16:40-16:55	**IL**	**Heng Zhao** *Eastern Institute of Technology, Ningbo*	Rational Design on Catalysts for Solar-Driven Hydrogen Production
16:55-17:10	**IL**	**Hao Wang** *Institute of Process Engineering, CAS*	Ionic Liquid-Assisted New Process of Electricity-Hydrogen Conversion
18:00 Dinner			

Session 6

Ionic Liquids for Advanced Energy Storage and Hydrogen Energy-B

Chairs: Meicheng Li, Zhenxing Liang, Yan Yu
Convenors: Shimou Chen, Weihua Chen, Shibin Yin, Chaofeng Zhang, Haitao Zhang

Location: 3F, VIP B Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Feng Yan Siqi Shi			
13:30-13:50	**KL**	**Guanglei Cui** *QIBEBT, CAS*	Fast-Charging Sulfide All-Solid-State Battery
13:50-14:10	**KL**	**Yan Yu** *University of Science and Technology of China*	Design of Materials for Low-Temperature Sodium-Ion Batteries
14:10-14:30	**KL**	**Guang Feng** *Huazhong University of Science and Technology*	Supcapacitors with Ionic Liquid Electrolytes
14:30-14:45	**IL**	**Zhizhang Yuan** *Dalian Institute of Chemical Physics, CAS*	Recent Advances in Zinc-Based Flow Batteries
14:45-15:00	**IL**	**Linghong Lü** *Nanjing Tech University*	The Controlled Design of MXene/Ionic Liquid Interfacial
15:00-15:15	**IL**	**Fanglin Wu** *Wuhan University of Technology*	Ionic Liquid Electrolytes for High-Energy Lithium Metal Batteries
15:15-15:30 Coffee Break			
Chairs: Yan Yu Haitao Zhang			
15:30-15:50	**KL**	**Feng Yan** *Donghua University*	AI Assisted Design and Synthesis of Anion Exchange Membranes
15:50-16:10	**KL**	**Junmei Zhao** *Institute of Process Engineering, CAS*	Aqueous Sodium-Ion Batteries Based on Interface Design
16:10-16:25	**IL**	**Xinpei Gao** *Hainan University*	Heterogeneous Colloid Electrolytes: Ionic Liquids, Plastic Crystals, and Liquid Crystals
16:25-16:40	**IL**	**Xin Su** *Harbin Institute of Technology*	Exploration of High-Energy-Density Lithium Battery Materials: Lithium Manganese Iron Phosphate, Prelithiation Additive, High-Voltage Electrolyte and Their Closed-Loop Recycling
16:40-16:55	**IL**	**Yangyang Liu** *Xi'an Jiaotong University*	Interface Mass-Charge Balance Study of Metal Anodes
16:55-17:10	**IL**	**Wanyu Zhao** *Shanghai Jiao Tong University*	Ionic Liquids: Accelerating Conversion Kinetics in Magnesium-Sulfur Batteries
17:10-17:25	**IL**	**Shaoze Zhang** *Kunming University of Science and Technology*	Mechanism of Dual Suppression of Lithium Dendrites and Shuttle Effect by Ionic Liquids
17:25-17:40	**IL**	**Yingyue Cui** *Henan University*	Construction of Key Materials and Investigation on Electrocatalytic Kinetics of Lithium-Sulfur Battery
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Meicheng Li Yufeng Zhao			
08:30-08:50	**KL**	**Weishen Yang** *Dalian Institute of Chemical Physics, CAS*	Catalysis and Membrane Separation toward Carbon Emission Reduction
08:50-09:10	**KL**	**Xiaodong Guo** *Sichuan University*	Advanced Cathods for Rechargeable Batteries
09:10-09:30	**KL**	**Weihua Chen** *Zhengzhou University*	Design of Electrolytes for Sodium-Ion Batteries and Interfacial Engineering
09:30-09:45	**IL**	**Zhengfei Chen** *NingboTech University*	Ionic Liquid Strategies for Advanced Lithium Batteries: Electrode Material Engineering and Gel Electrolyte Regulation
09:45-10:00	**IL**	**Shizhao Xiong** *Kunming University of Science and Technology*	Ionic Liquid Interlayer Enables Stable Interface in Solid-State Batteries
10:00-10:15	**IL**	**Caihong Wang** *Sichuan University*	Structural Design of Thermoresponsive Ionic Liquid Electrolytes and Overheating Protection
10:15-10:30 Coffee Break			
Chairs: Weishen Yang Weihua Chen			
10:30-10:50	**KL**	**Meicheng Li** *North China Electric Power University*	Innovations in Lithium Battery Anodes, Optimization of Cathodes, and Exploration of Solid-State Batteries
10:50-11:10	**KL**	**Yufeng Zhao** *Shanghai University*	Materials and Energy Storage Mechanisms for Sodium-Ion Batteries at Low Temperatures
11:10-11:25	**IL**	**Hongwei Fan** *Beijing University of Chemical Technology*	Efficient and Green Synthesis of Graphdiyne-Based Materials for Electrochemical Energy Applications
11:25-11:40	**IL**	**Shengan Wu** *Nanjing Normal University*	Ionic Liquid Electrolytes for Anode-Free Metal Batteries: Coordination Structure and Interfacial Chemistry
11:40-11:55	**IL**	**Shanshan Pan** *Henan University*	Construction of High-Performance Lithium Slurry Fluid Batteries and Optimization of Reactor Configuration
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Xiaowei Yang Haitao Zhang			
13:30-13:50	**KL**	**Hao Jiang** *East China University of Science and Technology*	Materials for Rechargeable Batteries: Strain Regulation and Stabilization Mechanisms
13:50-14:10	**KL**	**Kelei Zhuo** *Henan Normal University*	Solvation Thermodynamics and Ionic Liquid-Based Electrolytes
14:10-14:25	**IL**	**Ying Wang** *Fudan University*	AI Assisted Accelerated Development of Ion Polymer Electrolytes and Their Applications
14:25-14:40	**IL**	**Jianhang Huang** *Zhejiang Normal University*	Metallic Tin Anode with Highly Reversibility
14:40-14:55	**IL**	**ISHIOMA LAURENE EGUN** *Zhejiang University/NingboTech University*	Upcycling Waste Tires into Heteroatom-Doped Porous Carbon via Ionic Liquid Engineering for Advanced Sodium-Ion Battery Anodes
14:55-15:10	**IL**	**Jishi Wei** *Henan University*	Ionic Liquid Induced Smart Fabrication of Carbon Dots for High Performance Aqueous Batteries
15:10-15:30 Coffee Break			
Chairs: Hao Jiang Kelei Zhuo			
15:30-15:50	**KL**	**Xiaowei Yang** *Shanghai Jiao Tong University*	Ionic Liquid-Enabled New Electrochemical Energy Storage Systems
15:50-16:10	**KL**	**Haitao Zhang** *Institute of Process Engineering, CAS*	Structure-Performance Relationship of Multiscale Ionogel Electrolytes
16:10-16:25	**IL**	**Jingjing Xu** *Hohai University*	Research on Ionic Liquid-Based Liquid/Solid Electrolytes
16:25-16:40	**IL**	**Maocheng Liu** *Lanzhou University of Technology*	Structural Design of Materials for High-Specific-Energy Na-K Metal Batteries and Their Performance
16:40-16:55	**IL**	**Qingpeng Guo** *National University of Defense Technology*	Research on High-Temperature Solid-State Lithium Batteries Based on Integrated Ionogel and Applications
16:55-17:10	**IL**	**Pengfei Zhai** *Henan University*	A Study on the Construction of Gradient Inorganic-Rich SEI and Its Stabilization of the Solid Polymer Electrolyte/Lithium Anode Interface
17:10-17:20	**OL**	**Zhuang Wang** *China University of Petroleum (Beijing)*	Mechanism of Laser Transmission Welding Optimization for Flow Batteries
18:00 Dinner			

Session 7

Ionic Liquids for Functional Materials and Innovative Applications

Chairs: Hongyan He, Yapei Wang, Feng Yan
Convenors: Xiaoli Sun, Fei Xu, Yu Zhang, Shiguo Zhang

Location:3F, Linjiang Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Xiaoli Sun Zepeng Lei			
13:30-13:50	KL	**Feng Yan** *Soochow University*	High-Strength and Tough Ionogels
13:50-14:10	KL	**Tianlong Deng** *Tianjin University of Science and Technology*	Fabrication of Polyimidazole-Functionalized Copper Prussian Blue Analogues with Defect Engineering for Enhanced Adsorption
14:10-14:30	KL	**Takeshi Ueki** *National Institute for Materials Science*	Ionic Liquid Interface as a Cell Scaffold
14:30-14:45	IL	**Yanhui Chen** *Northwestern Polytechnical University*	Thermal Management Materials and Modules
14:45-15:00	IL	**Yu Zhang** *Institute of Process Engineering, CAS*	Multi-Field Driven Shape Memory Polyurethane Functional Material
15:00-15:15	IL	**Jia Chen** *Lanzhou Institute of Chemical Physics, CAS*	Application of Ionic Organic Single-Crystals in High-Efficiency Separation
15:15-15:30 Coffee Break			
Chairs: Feng Yan Tianlong Deng			
15:30-15:50	KL	**Yimin Yao** *Shenzhen Institutes of Advanced Technology, CAS*	Research and Application of Polymer-Based Advanced Packaging Materials
15:50-16:10	KL	**Zepeng Lei** *South China University of Technology*	Amphiphilic Ionic Liquids Enable Protective Dissolution and Controllable Regeneration of Cellulose
16:10-16:25	IL	**Xiaoli Sun** *Beijing University of Chemical Technology*	The Structure Control and Engineering of Dielectric Polymer Materials
16:25-16:40	IL	**Pengxiang Jia** *Northwest University*	Extreme Environment-Tolerant Gel Based on Green Solvents
16:40-16:55	IL	**Yunsong Yu** *Xi'an Jiaotong University*	Fundamental Research and Scale-Up Technology for Simultaneous Carbon Dioxide Capture and Conversion
16:55-17:10	IL	**Weizhong Zheng** *East China University of Science and Technology*	Low-Temperature Alcoholysis of Waste Polyester Catalyzed by Deep Eutectic Solvents
17:10-17:25	IL	**Jingyu Pang** *Henan University*	Polyoxometalate-Based Ionic Liquid Catalysts for Oxidative Desulfurization of Fuels
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Haibo Xie Hong Wang			
08:30-08:50	**KL**	**Kazuhide Ueno** *Yokohama National University*	Molecular Design of Lithium Ionic Liquids for Efficient Li-ion Transport
08:50-09:10	**KL**	**Shiguo Zhang** *Hunan University*	From Ionic Liquids to High-Performance Adhesive Materials
09:10-09:25	**IL**	**Lixia Ren** *Tianjin University*	Self-Assembly of Magnetic Ionic Liquid Based on Triphenyl Linker and the Ice Recrystallization Inhibition
09:25-09:40	**IL**	**Dawei Zhang** *East China Normal University*	Swelling Poly(Ionic Liquid)s Integrated with Coordination Cages for Adaptive Guest Encapsulation and Separation
09:40-09:55	**IL**	**Bolin Wang** *Northeast Electric Power University*	Application Research of Ionic Liquids in Transformer Fault Diagnosis
09:55-10:10	**IL**	**Siyu Zheng** *Zhejiang University of Technology*	Construction of High-Performance Underwater Adhesives Based on Ionic Liquids
10:10-10:20 Coffee Break			
Chairs: Kazuhide Ueno Shiguo Zhang			
10:20-10:40	**KL**	**Haibo Xie** *Guizhou University*	Dissolution Technology Boosts Biopolymer-Based Poly(Ionic Liquids) for Zinc-Ion Batteries
10:40-11:00	**KL**	**Hong Wang** *Nankai University*	Poly(Ionic Liquid)-Based Functional Materials
11:00-11:15	**IL**	**Tao Zhu** *Hebei University*	Improving the Adsorption and Electrochemical Performances of Oxidized Hydrogen-Substituted Graphyne and Graphene Oxide via Ionic Liquid Regulation
11:15-11:30	**IL**	**Yanlan Wang** *Liaocheng University*	Construction and Selective Catalysis of Multi Nuclear Palladium Clusters
11:30-11:45	**IL**	**Zhenbo Ning** *Beijing University of Chemical Technology*	Photothermal Shape Memory Dressing Containing Lignin-Iron Ion Complex
11:45-12:00	**IL**	**Zhiwu Chen** *Renmin University of China*	Bioinspired Self-Powered Thermoreceptors Independent of Temperature Gradients
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Hongyan He Yu Zhang			
13:30-13:50	**KL**	**Peiyi Wu** *Donghua University*	Low-Hysteresis and Tough Ionogels via Low-Energy-Dissipating Cross-Linking
13:50-14:05	**IL**	**Guiyin Xu** *Donghua University*	High-Safety Separators for Lithium, Sodium and Zinc Batteries
14:05-14:20	**IL**	**Xiaoyan Luo** *Huaqiao University*	Flexible Material from Ionic Liquid via Synergic Coordination-Hydrogen Bond for Energy-Efficient and Reversible Ammonia Capture
14:20-14:35	**IL**	**Qi Zhang** *The Chinese University of Hong Kong, Shenzhen*	Engineering Non-Covalent Interactions for Ionogel Adhesives
14:35-14:50	**IL**	**Shuai Tan** *Sichuan University*	Regulating Molecular Interactions in Ionic Liquids towards Diverse Applications
14:50-15:05	**IL**	**Qian Wang** *Institute of Process Engineering, CAS*	Electrodeposition of Aluminum in Ionic Liquids and Its Industrial Applications
15:05-15:20	**IL**	**Yuanbin Zhang** *Zhejiang Normal University*	Anion Hybrid Porous Materials for Enhanced Gas Separation
		15:20-15:30	**Coffee Break**
Chairs: Peiyi Wu Fei Xu			
15:30-15:45	**IL**	**Yingjie Zhou** *Donghua University*	CO_2-Sourced Ionic Polymers
15:45-16:00	**IL**	**Li Cui** *Shanxi University*	Ion Pair-Driven Selective Lithium Extraction and Lithium Isotope Separation in Multicomponent Complex Systems
16:00-16:15	**IL**	**Shiyuan Bian** *University of Science and Technology of China*	Research on Key Technologies of Humanoid Robots
16:15-16:30	**IL**	**Lilong Zhou** *Hebei University of Science and Technology*	Metal free Catalysts from Ionic Liquids for Oxidation of Organics at Low Temperature
16:30-16:45	**IL**	**Jun Zhang** *Hunan University*	In Situ Room-Temperature Spontaneous Gelation Electrolytes for High-Performance Electrochromic Devices
16:45-17:00	**IL**	**Yongkang Bai** *Xi'an Polytechnic University*	Designable Ionic Gel Platforms for Multimodal Sensing, Actuation and Self-Powered Intelligent Healthcare Systems
17:00-17:15	**IL**	**Nan Sun** *Shandong University*	Supramolecular Mismatch Elevates the Flow Transition Temperature of Ionogels
17:15-17:30	**IL**	**Siying Che** *Zhejiang University of Technology*	Design and Detection Application of Electrostatic-Driven Fluorescent Ion Probes
		18:00	**Dinner**

Session 8

Ionic Liquid-Enabled Technology for Efficient Capture and Conversion of CO_2

Chairs: Jie Zeng, Xiangping Zhang, Wei Wei
Convenors: Yongqin Lü, Jian Sun, Xue Wang, Zhoujun Wang

Location:3F, Zhuli Hall

Saturday Morning, May 30

Time	Item	Speaker	Title
Chair: Jie Zeng Ye Wang			
08:30-08:50	KL	**Xinbin Ma** *Xinjiang University*	Design of High-performance Catalysts for the Conversion of CO_2 to Methanol
08:50-09:10	KL	**Jinlong Gong** *Tianjin Normal University*	Catalytic Conversion of Low-Carbon Hydrocarbon Energy
09:10-09:30	KL	**Wei Wei** *Shanghai Advanced Research Institute, CAS*	Advances in CO_2 Conversion and Utilization Technologies
09:30-09:45	IL	**Chuan Xia** *University of Electronic Science and Technology*	General Construction of Single-Atom Alloys for CO_2 Conversion via Molten Salt Synthesis
09:45-10:00	IL	**Sheng Zhang** *Tianjin University*	Electrochemical Conversion of CO_2 to Value-Added Oxygenates
10:00-10:10 Coffee Break			
Chair: Xinbin Ma Xiangping Zhang			
10:10-10:30	KL	**Ye Wang** *Xiamen University*	Electrocatalytic Reduction of CO_2: Key Fundamental Challenges and Our Strategic Approaches
10:30-10:50	KL	**Dong Xu & Yang Yang** *CHN Energy New Energy Technology Research Institute*	Opportunity, Practice and Challenge of CCUS in China
10:50-11:05	IL	**Yongqin Lü** *Beijing University of Chemical Technology*	Biomimetic Capture and Electro-Bio Synergistic Catalysis: A New Path for High-Value CO_2 Utilization
11:05-11:20	IL	**Nannan Sun** *Shanghai Advanced Research Institute, CAS*	Material and Process for Integration of CO_2 Capture and Methanation
11:20-11:35	IL	**Yi Liu** *National Institute of Clean-and-Low-Carbon Energy*	Design of Industrial-Grade Catalysts for CO_2 Hydrogenation to Chemicals and Fuels
11:35-11:50	IL	**Xingchen Jiao** *Jiangnan University*	Pair Catalysis-Based CO_2 Photoreduction
11:50-12:00	OL	**Yifeng Chen** *Institute of Chemical Industry of Forest Products*	A Generalized Model for Cost Prediction of Physical Ionic Liquids in CO_2 Separation
12:00-13:00 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chair: Jinlong Gong Min Wei			
13:00-13:20	**KL**	**Lidong Wang** *North China Electric Power University*	Research Progress in CO_2 Capture
13:20-13:40	**KL**	**Jianling Zhang** *Institute of Chemistry, CAS*	Ionic Liquid-Modified Catalysts for Electrocatalytic CO_2 Reduction
13:40-13:55	**IL**	**Guangping Hao** *Dalian University of Technology*	Removal of Low Concentration and Moist CO_2 Using Polar Carbon Pores
13:55-14:10	**IL**	**Qun Yi** *Wuhan Institute of Technology*	Tailored Construction of Ionic Liquid-Functionalized Materials toward CO_2 Separation and Catalytic Conversion
14:10-14:25	**IL**	**ChunRan Chang** *Xi'an Jiaotong University*	Immobilized Ionic Liquids for CO_2 Cycloaddition Reaction
14:25-14:40	**IL**	**Zhiguang Zhu** *Tianjin Institute of Industrial Biotechnology, CAS*	Electric Energy-Powered CO_2 Bioconversion
14:40-14:55	**IL**	**Zhoujun Wang** *Beijing University of Chemical Technology/Ningxia University*	Catalytic Conversion of Greenhouse Gases: From Catalyst Design to Process Intensification
14:55-15:05	**OL**	**Ruru Chen** *Liaocheng University*	The Dynamic Reconstruction of Single-Cu-Atom-Modified SnS_2 in Electrocatalytic CO_2RR
15:05-15:15	**OL**	**Lei Yuan** *Henan Normal University*	Ionic Liquid-Mediated CO_2 Electrocatalysis and Preliminary Scale-Up
15:15-15:30 Coffee Break			
Chair: Wei Wei Lidong Wang			
15:30-15:50	**KL**	**Min Wei** *Beijing University of Chemical Technology*	Catalytic Conversion of CO_2
15:50-16:05	**IL**	**Shaowu Wang** *Anhui Polytechnic University*	Rare-Earth Metal Complexes and Ionic Liquids Binary Catalysis for the Efficient Transformation of CO_2
16:05-16:20	**IL**	**Pengfei Xie** *Zhejiang University*	Rational Design of Inverse Catalysts for Efficient CO_2 Upgrading Utilization
16:20-16:35	**IL**	**Guoqing Cui** *China University of Petroleum (Beijing)*	Joule Heating Catalysis Methylcyclohexane Dehydrogenation on Pt Based Catalysts
16:35-16:50	**IL**	**Hao Tian** *Shandong University*	Microenvironment Engineering in CO_2 Cycloaddition with Epoxides over Ionic Liquids towards Green Polyurethane Synthesis
16:50-17:05	**IL**	**Jing Ding** Nanjing University of Technology	From CO_2 Capture to Conversion: Ionic Liquid Functionalized COFs for a Sustainable Carbon Cycle
17:05-17:20	**IL**	**Ying Huang** *China Huan Qiu Contracting & Engineering Co., Ltd.*	Enabling Intelligent Carbon Capture Operation through Mechanism-Guided Hybrid AI

17:20-17:35	**IL**	**Lei Chen** *Zhejiang University*	Multi-Level Interface Engineering for Efficient CO Electrolysis in MEA Systems
17:35-17:50	**IL**	**Lu Bai** *Institute of Process Engineering, CAS*	Functionalized Ionic Liquid-Based Membranes for Efficient Gas Separation
17:50-18:05	**IL**	**Qian Su** *Institute of Process Engineering, CAS*	Multi-level Structural Regulation of Poly(ionic liquid)s for Catalytic Conversion of CO_2 into Cyclic Carbonates
18:05-18:15	**OL**	**Xin Guo** *Liaoning Petrochemical University*	Inductive Effect of Amino-Functionalized Ionic Liquid Hybrid Zeolites for Efficient CO_2 Capture and Photocatalytic Reduction
18:15-18:25	**OL**	**Fangfang Li** *Henan University*	Ethylene Glycol-Enabled Enhancement of CO_2 Electrochemical Reduction to CO in Ionic Liquids
18:25-18:35	**OL**	**Kuilin Peng** *Jiangxi Normal University*	Calculation-Guided Design and Experimental Validation of Ionic Liquid Electrolytes for Boosting High CO Generation Rate in CO_2 Electroreduction
18:35 Dinner			

Session 9

Ionic Liquids Big Data and Ecosystem Safety

Chairs: Xuebo Chen, Chao Lü, Xingmei Lü, Juncheng Jiang, Zhixiong Zhang
Convenors: Bona Lu, Zhen Song, Xiaonan Wang, Yufei Wang

Location: 3F, 999 Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Xingmei Lü Yawei Liu			
13:30-13:50	**KL**	**Xuebo Chen** *Henan University*	AI-Driven Intelligent Design and Manufacturing Platform for Electronic Materials Based on Electron and Energy Transfer Theory
13:50-14:10	**KL**	**Jun Jiang** *University of Science and Technology of China*	Building a Global Infrastructure for AI-Driven Innovation
14:10-14:25	**IL**	**Zhonghua Xiang** *Beijing University of Chemical Technology*	AI-Driven Research and Development of Energy Materials
14:25-14:40	**IL**	**Lijun Liang** *Hangzhou Dianzi University*	Research on Artificial Intelligence Designed Membrane Materials and Mass Transfer Mechanisms
14:40-14:55	**IL**	**Xiang Zhang** *East China University of Science and Technology*	Systematic Product Design: Functionalization of IL@MOF Composites for Environmental Applications
14:55-15:10	**IL**	**Li Zhang** *Zhejiang Sci-Tech University*	Exploring the Transport Mechanisms of Mixed Ions in Two-Dimensional Nanomembranes via Molecular Simulation and Machine Learning
15:10-15:30 Coffee Break			
Chairs: Xuebo Chen Yufei Wang			
15:30-15:50	**KL**	**Xingmei Lü** *Institute of Process Engineering, CAS*	Upgrading and Recycling of Waste PET To Prepare Gel Material with ILs /DES
15:50-16:05	**IL**	**Yang Lei** *Wuhan University of Science and Technology*	Molecular Design and Process Innovation for CO_2 Capture Based on Ionic Liquid Mixed Organic Solvents
16:05-16:20	**IL**	**Xiaofei Xu** *East China University of Science and Technology*	Balancing Dissolution and Diffusion for Enhanced CO_2/CH_4 Separation in Polyimide Membranes via Ion Solvation
16:20-16:35	**IL**	**Yonglin He** *Renmin University of China*	Organogel-Based Intelligent Flexible Sensing
16:35-16:50	**IL**	**Xiaochun Zhang** *Institute of Process Engineering, CAS*	Machine learning for CO_2 Separation by Ionic Liquids/COFs
16:50-17:05	**IL**	**Yasir Khan** *Institute of Process Engineering, CAS*	Machine Learning Driven Multi-Property Screening of Ionic Liquids for CO_2 Capture
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Bona Lu Tianhang Zhou			
08:30-08:50	**KL**	**Zhixiong Zhang** *National Science Library, CAS*	Towards an AI4S Knowledge Engine for Ionic Liquids: New Insights and Advances
08:50-09:10	**KL**	**Daojian Cheng** *Beijing University of Chemical Technology*	Application of AI-Integrated Structure Descriptor for Rational Design of Metal Catalysts
09:10-09:25	**IL**	**Xiaonan Wang** *Tsinghua University*	Foundation Models and AI Agents for Closed-Loop Discovery in Molecules, Materials, and Catalysis
09:25-09:40	**IL**	**Zhen Song** *East China University of Science and Technology*	Big Data-Driven Rational Design of Ionic Liquids and Deep Eutectic Solvents
09:40-09:55	**IL**	**Zhaoxi Sun** *Shenzhen University of Advanced Technology*	AI for Greener Solvents: Empowering Intelligent Development of Ionic Liquids with Multimodal Large Models
09:55-10:15 Coffee Break			
Chairs: Zhixiong Zhang Zhen Song			
10:15-10:35	**KL**	**Bona Lu** *University of Chinese Academy of Sciences*	Mesoscale CFD Modeling and Simulation: Toward Optimization of Gas–Solid Fluidized Catalytic Reactors For Process Upgrading
10:35-10:50	**IL**	**Tianhang Zhou** *China University of Petroleum, Beijing*	Multi-Scale Simulation and Intelligent Design of Chemical Engineering
10:50-11:05	**IL**	**Chang He** *Sun Yat-sen University*	Physics-Informed Machine Learning for Chemical Processes: Discovery, Integration, and Transfer of Mechanisms
11:05-11:20	**IL**	**Bidan Zhao** *China University of Petroleum, Beijing*	Physics-Informed Neural Network for Solving the Inverse Problems of Simple Granular Flow Systems
11:20-11:35	**IL**	**Feiya Lv** *Henan University*	Early Fault Warning Methods for Chemical Processes
12:00-13:30 Lunch			

Session 10

Green and Low-Carbon Chemistry and Biomass Chemical Engineering-A

Chairs: Xuehui Li, Haichao Liu, Xueqing Qiu, Feng Xu
Convenors: Haohong Duan, Tianfu Wang, Yanlin Qin, Xuliang Lin

Location: 2F, Houshan Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Xuehui Li Longlong Ma			
14:00-14:20	**KL**	**Qingbiao Li** *Xiamen University*	Biomass Utilization for Low-Carbon Resource Recovery
14:20-14:40	**KL**	**Xingxiang Ji** *Qilu University of Technology*	Report on Research Progress in Efficient Separation Methods and Utilization of Agricultural and Forestry Biomass
14:40-14:55	**IL**	**Chengjian Jiang** *Guangxi University of Science and Technology*	Construction and Mechanism of A High Bio-efficient Transformation System for Low-Value Components
14:55-15:10	**IL**	**Lichun Dai** *Biogas Institute of Ministry of Agriculture and Rural Affairs*	Deep Eutectic Solvents-Mediated Solvothermal Routes for the Functionalization of Biomass-based Materials
15:10-15:25	**IL**	**Madadi Meysam** *Jiangnan University*	Biphasic Pretreatment for Sustainable and Holistic Lignocellulose Biorefining
15:25-15:40	**IL**	**Lihua Zhang** *Guizhou University*	Ionic Liquids for Homogeneous Dissolution of Polysaccharides and Preparation of Functional Materials
15:40-16:00 Coffee Break			
Chairs: Qingbiao Li Xingxiang Ji			
16:00-16:20	**KL**	**Kai Guo** *Nanjing Tech University*	Development and Transformation of Key Technologies for Bio-based Spandex
16:20-16:40	**KL**	**Yuhe Liao** *Guangzhou Institute of Energy Conversion, CAS*	Mechanistic Insight into Selective Depolymerization of Lignin
16:40-16:55	**IL**	**Wencan Huang** *Ocean University of China*	Rational Design and Functional Regulation of Novel Deep Eutectic Solvents for Green Extraction of Chitin
16:55-17:10	**IL**	**Yishuang Wang** *Anhui University of Science and Technology*	Catalytic Depolymerization of Lignin over B-Ti-Modified Diatomite Supported Nickel Phosphide Catalysts Using Formic Acid-Assisted Aqueous-Phase Glycerol
17:10-17:25	**IL**	**Guandong Su** *Dalian University of Technology*	Co-Fermentation of Food Waste and Anaerobic Digester Supernatant for Sustainable Butanol Bioproduction
17:25-17:40	**IL**	**Jinwen Hu** *Dalian Polytechnic University*	Lignin-Based Hydrogels for Pollutant Adsorption and Flexible Sensing
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Changzhi Li Yong Qian			
08:30-08:50	**KL**	**Changzhi Li** *Dalian Institute of Chemical Physics, CAS State Key Laboratory of Non-Food Biomass Energy Technology, Guangxi State Farm Mingyang Biochemical Co., Ltd*	Refining Lignin into Value-Added N-Containing Aromatic Compounds
08:50-09:10	**KL**	**Yong Qian** *South China University of Technology*	Biomass Lignin Based Electronic and Energy Materials
09:10-09:25	**IL**	**Zuoyi Xiao** *Dalian Polytechnic University*	Construction and Application of Biomass-Derived Energy Storage Materials
09:25-09:40	**IL**	**Dongyu Zhu** *Guangdong University of Technology*	Halometallate Ionic Liquid-Enabled Self-Healing Ionogels: Recyclable Transparent to Lignin-Powered Multimodal Sensing
09:40-09:55	**IL**	**Sijie Liu** *Hunan Normal University*	Ionic Liquids Catalyze Lignin Conversion within Emulsion Systems
09:55-10:15 Coffee Break			
Chairs: Zhijun Chen Xinghua Zhang			
10:15-10:35	**KL**	**Zhijun Chen** *Northeast Forestry University*	Research and Utilization of Photophysical-Chemical Properties of Forest Resources
10:35-10:55	**KL**	**Xinghua Zhang** *Southeast University*	Synthesis of High-Density Aviation Fuel from Biomass over Ionic Liquid
10:55-11:10	**IL**	**Xianlei Shi** *Henan Polytechnic University*	Some Novel Catalysts for the Upgrading of Biomass Furaldehydes
11:10-11:25	**IL**	**Zhongguo Wang** *Liaocheng University*	Construction and Properties of Inorganic Salt-mediated Lignocellulosic Ionic Gels
11:25-11:40	**IL**	**Shuang Xiang** *Shaoxing University*	CoO-Ov Interface: Hδ⁻-mediated Efficient Activation of Biomass C-O Bonds
11:40-11:55	**IL**	**Jia Wei** *Xi'an University of Technology*	Cellulose-Ionic Liquid Multi-Scale Interaction Regulation: From Efficient Spinning to Flexible Conductive Gels
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Xianhai Zeng Zhimin Xue			
14:00-14:20	**KL**	**Xianhai Zeng** *Xiamen University*	The Real Biomass Pretreatment and Downstream Biorefinery for Green Chemicals
14:20-14:40	**KL**	**Zhimin Xue** *Beijing Forestry University*	Deep Eutectic Solvent-Mediated Lignin Fractionation and Deep Depolymerization
14:40-14:55	**IL**	**Anguo Ying** *Shaoxing University*	Regulating the Hydrogenation Extent for Valorization of Lignite and Lignin
14:55-15:10	**IL**	**Hongliang Qian** *China Pharmaceutical University*	Prediction Model for Biomass Thermodynamic Data and Its Application
15:10-15:25	**IL**	**Xing Wang** *Dalian Polytechnic University*	Dimension Modulation and Utilization of Lignin-derived Nanomaterials
15:25-15:40	**IL**	**Yumiao Lü** *Institute of Process Engineering, CAS*	Lignin Degradation in an Ionic Liquid-Based Electrocatalytic System
15:40-16:00 Coffee Break			
Chairs: Yaxuan Jing Liangfang Zhu			
16:00-16:15	**IL**	**Yaxuan Jing** *Nanjing University*	Precise Bond Cleavage and Synergistic Catalysis for Waste Plastics Upcycling
16:15-16:30	**IL**	**Liangfang Zhu** *Sichuan University*	Breaking the Concentration Barrier: From High-loading Cellulose to Typical Platform Chemicals
16:30-16:45	**IL**	**Tengfei Niu** *Jiangnan University*	Research on the Preparation of Fine Chemicals through Catalytic Oxidation of Biomass
16:45-17:00	**IL**	**Can Meng** *Guangxi University of Science and Technology*	Synergistic Strategies of Additives in Microbial Enzymatic Hydrolysis of Bagasse
17:00-17:15	**IL**	**Shuai Xu** *Chang'an University*	Identifying Key Intermediates in Photocatalytic Lignin Conversion via Ab Initio Molecular Dynamics: Insights from Oxygen Evolution Reaction Studies
17:15-17:30	**IL**	**Juping Liu** *Huazhong University of Science and Technology*	Preparation of Sustainable Liquid Aviation Fuel Components via Catalytic Hydrogenolysis Liquefaction of Lignin
18:00 Dinner			

Session 10

Green and Low-Carbon Chemistry and Biomass Chemical Engineering-B

Chairs: Xuehui Li, Haichao Liu, Xueqing Qiu, Feng Xu
Convenors: Haohong Duan, Tianfu Wang, Yanlin Qin, Xuliang Lin

Location: 2F, Rufeng Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Aiqin Wang Tianfu Wang			
14:00-14:20	**KL**	**Aiqin Wang** *Dalian Institute of Chemical Physics, CAS*	Single-Atom Alloy Catalysts for Hydrodeoxygenation and Amination of Biomass-Derived Chemicals
14:20-14:40	**KL**	**Zhenglong Li** *Zhejiang University*	Sustainable Aviation Fuels from CO_2 and Ethanol
14:40-14:55	**IL**	**Fengxiang Zhang** *Dalian University of Technology*	Preparation and Fuel Cell Performance of Poly(arylene) Anion Exchange Membranes Regulated by Free Volume and Amphiphilic Dual Side Chains
14:55-15:10	**IL**	**Zilong Wang** *Jinan University*	Theory-Guided Design of Ru-NiFe Cathode Catalysts for Anion Exchange Membrane Water Electrolysis at Large Electrode Scale
15:10-15:25	**IL**	**Liangliang Lin** *Jiangnan University*	Microplasma-Based Green Processes for Functional Materials Synthesis
15:25-15:40	**IL**	**Yingluo He** *University of Toyama*	CO_2-to-Value: A Path to Carbon-Neutral Chemistry
15:40-16:00 Coffee Break			
Chairs: Jiahua Zhu Dangge Gao			
16:00-16:20	**KL**	**Jiahua Zhu** *Nanjing Tech University*	Microwave-Coupled Interfacial Chemical Engineering
16:20-16:40	**KL**	**Dangge Gao** *Shaanxi University of Science & Technology*	Construction and Performance of Functional Leather Based on Ionic Liquid-Assisted Modification
16:40-16:55	**IL**	**Renzhong Li** *Xi'an Polytechnic University*	Molecular Mechanism Underlying the Synergistic Interaction Between Amino Acid Ionic Liquid [C_2mim][Gly] and Cosolvents in Cellulose Dissolution
16:55-17:10	**IL**	**Liying Guo** *Shenyang University of Technology*	Synthesis and Modification of Bio-based Polyesters from CO_2 Catalyzed by Ionic Liquids
17:10-17:25	**IL**	**Jikuan Qiu** *Henan Normal University*	Overcoming Photochemical Limitations in Porous Organic Frameworks: Mechanistic Insights into Full-spectrum Driven Oxygen Activation
17:25-17:40	**IL**	**Hang Jiang** *Jiangnan University*	Droplet Microreactor Enhances Biosynthesis
17:40-17:55	**IL**	**Binghao Wang** *Hunan University of Science and Technology*	Photocatalytic Nitrogen Fixation Process Based on Single Atom Modified Plasmonic Nanostructures
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Yixin Huo Zehui Zhang			
08:30-08:50	**KL**	**Yixin Huo** *Beijing Institute of Technology*	Bio Element Design and Bulk Chemical Production Based on Generative Large Scale Model
08:50-09:10	**KL**	**Zehui Zhang** *South-central University For Nationalities*	Directional Preparation of Bio-Based Nitrogen-Containing Chemicals
09:10-09:25	**IL**	**Jinsheng Zhao** *Liaocheng University*	Linkage Unit Engineering of Conjugated Porous Polymer for Photocatalytic Organic Conversion Applications
09:25-09:40	**IL**	**Yuxiang Hong** *Guangxi University of Science and Technology*	Research on Latent Heat Energy Storage and Thermal Management Technology Based on Organic Phase Change Materials
09:40-09:55	**IL**	**Enlai Hu** *Zhejiang Normal University*	Effect of Hydroxyl Evolution on the Stability of Alkaline Electrocatalytic Hydrogen Evolution
09:55-10:15 Coffee Break			
Chairs: Guowu Zhan Huaigang Cheng			
10:15-10:35	**KL**	**Guowu Zhan** *Huaqiao University*	Design of Bifunctional Catalysts for Product Selectivity Mmodulation in Catalytic Pyrolysis of Fatty Acids
10:35-10:50	**IL**	**Huaigang Cheng** *Shanxi University*	CO_2-mineralized Carbide Slag: Engineering Experimentation and Carbon Sequestration Potential Analysis
10:50-11:05	**IL**	**Junfeng Wang** *Institute of Process Engineering, CAS*	Resource Recovery Technology and Application of High-Salt Organic Wastewater
11:05-11:20	**IL**	**Xinglei He** *Jinggangshan University*	Cobalt Single-Atom Catalyst at PPM Level Reduces Sulfonyl Chlorides to Sulfinate Esters
11:20-11:35	**IL**	**Jingjing Yan** *Anhui University of Science and Technology*	Fabrication of Enriched-Microporous Carbon Electrodes for High-Performance Supercapacitor
11:35-11:50	**IL**	**Zhaolei Liu** *Liaocheng University*	Non-lead Halide Perovskite Artificial Photosynthesis Catalyst
12:00-13:30 Lunch			

Saturday Afternoon, May 30

Time	Item	Speaker	Title
Chairs: Tiejun Wang Xianyuan Wu			
14:00-14:20	**KL**	**Tiejun Wang** *Guangdong University of Technology*	Aqueous Coupling of Green Alcohols to Sustainable Aviation Fuel
14:20-14:40	**KL**	**Xianyuan Wu** *South China University of Technology*	Strategies for the Deconstruction and Molecular Redesign of Nylon 6 toward A Circular Economy
14:40-14:55	**IL**	**Hong Zhong** *Jinggangshan University*	The Research on Functional Porous Organic Polymer Materials for CO_2 Conversion
14:55-15:10	**IL**	**Yafei Guo** *Henan University of Science and Technology*	Ionic Liquid-Derived Metal-nitrogen Co-Doped Carbon for Catalytic Aerobic Oxidative Coupling Reactions
15:10-15:25	**IL**	**Yezheng Cai** *Guangxi University of Science and Technology*	Regulation of the Interface Microstructure of Cobalt-Based Oxygen Electrodes Enhances Catalytic Reactions
15:25-15:40	**IL**	**Wenhang Wang** *Liaocheng University*	Imidazolium Ionic Liquids Promote CO_2 Hydrogenation to Multi-carbon Products
15:40-16:00 Coffee Break			
Chairs: Wanhui Wang Daili Peng			
16:00-16:15	**IL**	**Wanhui Wang** *Dalian University of Technology*	POP-Supported Catalysts for CO_2 Hydrogenation to Formic Acid
16:15-16:30	**IL**	**Daili Peng** *Central China Normal University*	Sustainable Recovery of Aromatics from Pyrolysis Gasoline Using Deep Eutectic Solvents: UNIFAC Prediction and Process Evaluation
16:30-16:45	**IL**	**Rong Fu** *Liaocheng University*	Study on Visible-Near Infrared Light-Driven Ammonia Synthesis from Surface Metallization to Dual-Site Synergistic Mechanism
16:45-17:00	**IL**	**Xianshuo Zhang** *Anyang Normal University*	Upcycling and Recycling of Polyurethane Using Stepwise Depolymerization in Carboxylic Scid-Water Reactive Solvents
17:00-17:15	**IL**	**Xiaoling Meng** *Guangxi University of Science and Technology*	Synergistic Regulation of Thermal Conduction-Insulation for Flexible Phase-Change Energy Storage Materials
18:00 Dinner			

Session 11

AI & Ionic Liquids Emerging Young Scholars Forum

Chairs: Daojian Cheng, Weifeng Shen, Yanqiang Zhang
Convenors: Teng Zhou, Qing Zhu

Location: 1F, Administration Hall

Friday Afternoon, May 29

Time	Item	Speaker	Title
Chairs: Zhigang Geng Haoxiang Xu			
13:30-13:50	**KL**	**Jianping Guo** *Dalian Institute of Chemical Physics, CAS*	Hydrides for N_2 Conversion
13:50-14:10	**KL**	**Xuliang Lin** *Guangdong University of Technology*	Lignin-Derived Carbon Catalytic Materials
14:10-14:30	**KL**	**Xilong Wang** *China University of Petroleum (Beijing)*	Petrochemical Engineering: Fundamental Research on Efficient Hydrogenation of Non-Hydrocarbon Compounds
14:30-14:45	**IL**	**Guoxiong Zhan** *Institute of Process Engineering, CAS*	Modeling and Optimization of Ionic Liquid-Based CO_2 Capture from Flue Gas of a Coal-Fired Power Plant
14:45-15:00	**IL**	**Jian Wang** *City University of Hong Kong*	Research on Dynamic Process Engineering of Electrolytic Cell
15:00-15:15	**IL**	**Liqiang Wang** *Zhengzhou University*	Construction of Carbon-Based Non-Noble-Metal Catalysts Derived from Protein-Metal Ion Networks for Nitroarene Hydrogenation
15:15-15:30 Coffee Break			
Chairs: Jianping Guo Xuliang Lin Xilong Wang			
15:30-15:50	**KL**	**Zhigang Geng** *University of Science and Technology of China*	Efficient Activation and Electrocatalytic Conversion of Nitrogen Species
15:50-16:10	**KL**	**Haoxiang Xu** *Beijing University of Chemical Technology*	Construction and Application of Domain-Specific Large Language Models for Chemical Materials
16:10-16:25	**IL**	**Zipeng Zhao** *Beijing Institute of Technology*	Development and Optimization of High-Performance Catalysts for Energy Catalysis Reactions Driven by Operating Condition Demands
16:25-16:40	**IL**	**Xiaopeng Wang** *Sichuan University*	Highly Efficient Nickel Hydroxide Oxygen Evolution Reaction Electrocatalysts
16:40-16:55	**IL**	**Meng Yao** *Sichuan University*	Design of Solid Electrolytes Based on Built-in Electric Field
16:55-17:10	**IL**	**Min Wang** *Institute of Process Engineering, CAS*	Cobalt Phthalocyanine-Based Tandem Catalytic Systems for Electroreduction of CO_2 to C_{2+} Products
19:00 Dinner			

Saturday Morning, May 30

Time	Item	Speaker	Title
Chairs: Xin Peng Duanjian Tao			
08:30-08:50	**KL**	**Yongming Han** *Beijing University of Chemical Technology*	Energy Efficiency Intelligent Optimal Control for Complex Chemical Industrial Processes
08:50-09:10	**KL**	**Xiaoyong Gao** *China University of Petroleum (Beijing)*	Novel Methods for Operating Condition Diagnosis Based on Multimodal Large Models
09:10-09:25	**IL**	**Zihao Wang** *Chongqing University*	Closed-Loop Intelligent Design of Energy-Efficient Separation Systems Using Bayesian Optimization
09:25-09:40	**IL**	**Lanyu Li** *Beijing University of Chemical Technology*	The AI-Catalyst Pipeline: Accelerating Catalyst Innovation from Laboratory to Industry
09:40-09:55	**IL**	**Xinyan Liu** *Wuhan University of Science and Technology*	Thermodynamic Modelling with Process Evaluation for IL Design and Gas Separation
09:55-10:05	**OL**	**Kaikai Li** *Institute of Coal Chemistry, CAS*	Prediction of Ionic Liquid Properties and Inverse Design Based on Machine Learning
10:05-10:15 Coffee Break			
Chairs: Yongming Han Xiaoyong Gao			
10:15-10:35	**KL**	**Xin Peng** *East China University of Science and Technology*	AI-assisted Design of Novel Catalytic Materials
10:35-10:55	**KL**	**Duanjian Tao** *Jiangxi Normal University*	AI Screening of Ionic Solvents for Intensified Gas Absorption
10:55-11:10	**IL**	**Yu Long** *Lanzhou University*	Development and Application of Zirconium Hydroxide Catalysts
11:10-11:25	**IL**	**Shuyue Wen** *Tianjin University of Technology*	Functional Regulation of Ionic Liquid Absorbents for Enhanced CO_2 Capture
11:25-11:40	**IL**	**Xiaoqing Yan** *Xi'an Jiaotong University*	Multiscale Catalyst Design and Photo/Electrocatalytic Redox-Coupled Process Intensification
11:40-11:50	**OL**	**Wanxiang Zhang** *Qingdao University of Science and Technology*	Rational Design of Low Neutral Oil Entrainment Ionic Liquids and Intelligent Optimization of Oil-Phenol Separation Process
11:50-12:00	**OL**	**Zhaoyang Ju** *Quzhou University*	Molecular Simulation Studies on Biomass Conversion and Interfacial Mechanisms in Ionic Liquids
12:00-13:30 Lunch			