



ICAFPM2025

PROGRAM of ICAFPM 2025

【Forum C】ICAFPM 2025 Porous Organic Polymers for Adsorption, Separation, Catalysis and Energy 吸附分离、催化与能源多孔聚合物

Topic: Porous Organic Polymers for Adsorption, Separation, Catalysis and Energy
Session Chairs: Charl Faul, Jong-Beom Baek, Xin Zhao, Dong Wang, Yaozu Liao, Yi Jiang

Nov. 1, 2025 Afternoon (下午)

Venue: Room No. 8 (8号厅)

Session C	Moderator: Jianxin Zou 邹建新 Qiang Zhao 赵强			
Time	Type	Speaker	Title	Affiliation
12:50-13:00	Opening ceremony 分会开幕式			
13:00-13:20	Keynote	Dong Wang 王栋	Surface and Interface Synthesis of Two-dimensional Covalent Organic Frameworks	Institute of Chemistry, Chinese Academy of Sciences 中国科学院北京化学研究所
13:20-13:40	Keynote	Linbing Sun 孙林兵	Smart porous materials for adsorptive separation	Nanjing Tech University 南京工业大学
13:40-14:00	Keynote	Teng Ben 贲腾	Precise separation based on porous organic frameworks	Zhejiang Normal University 浙江师范大学
14:00-14:15	Invited	Shigui Chen 陈世贵	Halogen-bonded Organic Frameworks(XOFs)	Wuhan University 武汉大学
14:15-14:30	Invited	Jianke Sun 孙建科	Porous molecular cage encapsulating metal clusters for biomimetic catalysis	Beijing Institute of Technology 北京理工大学
14:30-14:45	Invited	Shangbin Jin 金尚彬	Synthesis of Covalent Organic Frameworks with Tunable Morphologies Towards Catalysis Application	Xi'an Jiaotong University 西安交通大学
14:45-15:00	Invited	Xiong Chen 陈雄	Organic conjugated polymer photocatalysis	Fuzhou University 福州大学
15:00-15:15	Coffee Break (茶歇)			
Session C	Moderator: Dong Wang、Linbing Sun 王栋、孙林兵			
15:15-15:35	Keynote	Jianxin Zou 邹建新	Mechanisms of multidimensional carbon on the hydrogen sorption in Mg based nano-composites and their applications	Shanghai Jiao Tong University 上海交通大学
15:35-15:55	Keynote	Chong Cheng 程冲	Artificial Enzyme-based Biocatalytic Materials	Sichuan University 四川大学
15:55-16:15	Keynote	Qiang Zhao 赵强	Strong polyelectrolyte ion separation membranes	Huazhong University of Science and Technology 华中科技大学
16:15-16:35	Keynote	Zhikun Zheng 郑治坤	Exploration of large-areasyntesis of homoporousmembranes fromcovalent organic frameworks	Sun Yat-sen University 中山大学
16:35-16:55	Keynote	Sheng Han 韩生	Tailoring Metal-Organic Interfaces for CO ₂ Electroreduction	Shanghai Institute of Technology 上海应用技术大学
16:55-17:10	Invited	Kejun Liu 刘珂君	Interfacial Synthesis Chemistry at Aqueous Interfaces	Soochow University 苏州大学

17:10-17:25	Invited	Yuanlong Shao 邵元龙	AI-Empowered Development of High-Strength, High-Thermal-Conductivity Carbon Nanotube Fibers	Peking University 北京大学
17:25-17:40	Invited	Li Dang 党丽	Photocatalytic degradation mechanism of metalloporphyrin composites	Shantou University 汕头大学
17:40-17:50	Invited	Bo Gui 桂波	Fluorescent 3D Covalent Organic Frameworks with Entangled 2D Layers	Wuhan University 武汉大学
18:30-20:00	Banquet 大会晚宴			



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Topic: Porous Organic Polymers for Adsorption, Separation, Catalysis and Energy
Session Chairs: Charl Faul, Jong-Beom Baek, Xin Zhao, Dong Wang, Yaozu Liao, Yi Jiang

Nov. 2, 2025 Morning (上午)

Venue: Room No. 8 (8号厅)

Session C	Moderator: Baohang Han 韩宝航			
8:30-8:55	Keynote	Jong-Beom Baek	Green Hydrogen Production and Storage	Ulsan National Institute of Science and Technology 蔚山科学技术院 (韩国)
8:55-9:20	Keynote	Charl Faul	Solving Global Challenges with Functional Porous Materials	University of Bristol 布里斯托尔大学 (英国)
9:20-9:35	Invited	Jiaxing Jiang 蒋加兴	Structural Design of Conjugated Porous Polymers Cathode for Aluminum Dual-Ion Batteries	Jiangnan University 江汉大学
9:35-9:50	Invited	Yingjie Zhao 赵英杰	Single-crystal organic frameworks	Qingdao University of Science and Technology 青岛科技大学
9:50-10:00	Invited	Ding Xiang	Sustainable Bio-Based Nanofiber Membranes for Efficient Perfluorooctanoic Acid Removal and Thermal Regeneration	University of Bath 巴斯大学 (英国)
10:00-10:15	Coffee Break (茶歇)			
Session C	Moderator: Jiaxing Jiang 蒋加兴			
10:15-10:35	Keynote	Xin Zhao 赵新	Structure Transformation of Covalent Organic Frameworks	Southeast University 东南大学
10:35-10:55	Keynote	Baohang Han 韩宝航	Conjugated Porous Organic Polymer Materials: Preparation and Application	National Center for Nanoscience and Technology 国家纳米中心
10:55-11:10	Invited	Juan Peng 彭娟	Controlling microstructures of conjugated polymers for their charge transport properties	Fudan University 复旦大学

11:10-11:25	Invited	Liang Yao 姚亮	Covalent Organic Framework Nanoparticles for Catalytic Energy Conversion	South China University of Technology 华南理工大学
11:25-11:40	Invited	Yuzhong Niu 牛余忠	Construction and Application of Dendrimer-based Adsorption and Separation Materials	Ludong University 鲁东大学
11:40-11:50	Invited	Chenyi Wang 汪称意	Design and Performance of High Performance Ion Exchange Membrane Materials Based on Ether free Skeleton Structure	Changzhou University 常州大学
11:50-12:00	Invited	Hongxu Liu 刘洪煦	Preparation and Ion Conduction Properties of Amino Acid–Based Porous Organic Polymer Gels	Sichuan University 四川大学
12:00-13:00	Lunch（午餐）			
Nov. 2, 2025 Afternoon（下午）				
Venue: Room No. 8 (8号厅)				
Session C	Moderator: Changjiang Yao 姚长江			
13:00-13:15	Invited	Ruihu Wang 王瑞虎	The synthesis of hydrogels based on organic framework materials for human-machine interface application	Hebei Normal University 河北师范大学
13:15-13:30	Invited	Shaohong Liu 刘绍鸿	Ultrathin yet robust composite polymer electrolytes and their interfaces for high performance lithium metal batteries	Sun Yat-sen University 中山大学
13:30-13:45	Invited	Yu Fang 方煜	Porous Coordination Cages: Precision Synthesis, HirarchicalAssembly and Separation Applications	Fujian Institute of Research on the Structure of Matter, CAS
13:45-13:55	Invited	Xiaoyan Wang 王笑颜	Crystalline Porous Organic Polymers for Photocatalysis	Central China Normal University 华中师范大学
13:55-14:05	Invited	Jianan Wang 王嘉楠	Functional Design and Application of Polymer-Based Micro/Nano Materials for Lithium Batteries	Xi'an Jiaotong University 西安交通大学
14:05-14:15	Invited	Zhengcong Wang 王正宫	Coordination Crosslinked Microporous Polyimides for Membrane-based Crude Oil Fractionation	Soochow University 苏州大学
14:15-14:25	Invited	Danfeng Wang 王丹凤	Conjugated Polymers Based on Spin-Orbit Coupling and Enhanced Interfacial Reactions for Hydrogen Peroxide Production	Changzhou University 常州大学
14:25-14:35	Invited	Bao Lu 卢宝	Three-Dimensional Non-Destructive Microscopic Characterization Solution for Fiber-Reinforced Composites Based on X-Ray Microscopy	Carl Zeiss (Shanghai) Co., Ltd. 卡尔蔡司上海管理有限公司
14:35-14:50	Coffee Break（茶歇）			
Session C	Moderator: Ruihu Wang 王瑞虎			
14:50-15:05	Invited	Changjiang Yao 姚长江	Organic polymer materials for energy storage	Beijing Institute of Technology 北京理工大学
15:05-15:20	Invited	Xiaodong Zhuang 庄小东	Diyne-linkage based COFs: dimension and bandgap controlling	Shanghai Jiao Tong University 上海交通大学
15:20-15:30	Invited	Lei Wang 王磊	Polymer photocatalytic functional materials	University of Science and Technology of China 中国科学技术大学
15:30-15:40	Invited	Shengyang Zhou 周生洋	The study on fibrous processing strategies of conductive metal-organic frameworks films and their applications in energy storage	Sichuan University 四川大学
15:40-15:50	Invited	Xinlin Zha 查新林	Design and Construction of Mesoscopic Helical Chirality in Covalent Organic Frameworks	Wuhan Textile University 武汉纺织大学
15:50-16:00	Invited	Gang Xiao 肖刚	Knittable, thermally insulating aerogel fibers enabled by ion-mediated hierarchical assembly	Peking University 北京大学

16:00-16:10	Invited	Weisi He 何微思	Rational Design of Conjugated Microporous Polymers and Study of Their Structure-Gas Sensing Property Relationship	Shanghai DianJi University 上海电机学院
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Nov. 2, 2025 Morning (上午)				
Venue: Room No. 9 (9 号厅)				
Session C	Moderator: Yonggang Min 闵永刚			
Time	Type	Speaker	Title	Affiliation
8:30-8:50	Keynote	Jian Jin 靳健	Design Advanced Membranes for Precise Ion/Molecule Separation	Soochow University 苏州大学
8:50-9:10	Keynote	Yagang Yao 姚亚刚	Key materials for aqueous zinc-ion batteries	Nanjing University 南京大学
9:10-9:30	Keynote	Wei Yan 延卫	Conjugated Microporous Polymers: From Environmental Remediation to Energy Storage	Xi'an Jiaotong University 西安交通大学
9:30-9:45	Invited	Fenghua Zhang 张风华	Smart polymer composites and their applications	Harbin Institute of Technology 哈尔滨工业大学
9:45-10:00	Invited	Jiajia Huang 黄佳佳	Functional Fibers for Adsorption and Separation	Zhengzhou University 郑州大学
10:00-10:15	Coffee Break (茶歇)			
Session C	Moderator: Jian Jin 靳健			
10:15-10:35	Keynote	Yonggang Min 闵永刚	Development and Application of Polyimide-Based Fibers and Their Composites at the Frontier of Science and Technology	Guangdong University of Technology 广东工业大学
10:35-10:55	Keynote	Fan Zhang 张帆	2D vinylene-linked polymeric framework assemblies	Shanghai Jiao Tong University 上海交通大学
10:55-11:10	Invited	Jia Guo 郭佳	Chiral Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution	Fudan University 复旦大学

11:10-11:25	Invited	Xianjun Lang 郎贤军	Cooperative Photocatalysis based on Covalent Organic Frameworks and TEMPO	Wuhan University 武汉大学
11:25-11:35	Invited	Peiyang Gu 顾培洋	Construction of Conjugated Porous Polymers and Their Photocatalytic Production of Hydrogen Peroxide	Changzhou University 常州大学
11:35-11:45	Invited	Xiaohui Xu 徐晓晖	Multicomponent open frameworks	Sichuan University 四川大学
11:45-11:55	Invited	Wenliang Song 宋文良	Fabrication and Potential Applications of Porous Polymer Fibers	University of Shanghai for Science and Technology 上海理工大学
12:00-13:00	Lunch（午餐）			
Nov. 2, 2025 Afternoon（下午）				
Venue: Room No. 9（9号厅）				
Session C	Moderator: Rui Liu 刘睿			
Time	Type	Speaker	Title	Affiliation
13:00-13:15	Invited	Zhonghua Xiang 向中华	Pyrolysis-Free COP-Based Oxygen Reduction Electrocatalysis and Fuel Cell Engineering	Beijing University of Chemical Technology 北京化工大学
13:15-13:30	Invited	Zheng Meng 孟征	The design, synthesis, and electronic applications of conductive metal-organic frameworks	University of Science and Technology of China 中国科学技术大学
13:30-13:45	Invited	Muqiang Jian 蹇木强	Preparation of high-performance carbon nanotube fibers	Beijing Graphene Institute 北京石墨烯研究院
13:45-13:55	Invited	Hongwei Chen 陈宏伟	Organic frameworks for multi-ion storage	Huaqiao University 华侨大学
13:55-14:05	Invited	Feng Zhang 张丰	Design of solvent resistant thin film composite membrane for molecule separation	Soochow University 苏州大学
14:05-14:15	Invited	Huiqing Wu 吴慧青	High-Performance Nanofiltration Membranes from Interfacial Polymerization at DES/Alkane Interface	Donghua University 东华大学
14:15-14:25	Invited	Yongzheng Zhang 张永正	Key Interface Regulation and Characterization of High-Energy-Density Lithium-Sulfur Batteries	Nantong University 南通大学
14:25-14:35	Invited	Chen Yang 杨晨	Design and Regulation of Organic/Inorganic Porous Materials and Their Catalytic Performance	SouthWest Petroleum University 西南石油大学
14:35-14:50	Coffee Break（茶歇）			
Session C	Moderator: Zheng Meng 孟征			
14:50-15:05	Invited	Rui Liu 刘睿	Design and mechanism of interface-driven porous catalysts	Tongji University 同济大学
15:05-15:20	Invited	Shijie Ren 任世杰	Structural Design and Property Regulation of Porous Organic Polymers	Sichuan University 四川大学
15:20-15:35	Invited	Hanxue Sun 孙寒雪	Structural Design of Conjugated Microporous Polymers with Multi-scales for Energy Conversion and Environmental Remediation	Lanzhou University of Technology 兰州理工大学
15:35-15:45	Invited	Xianlei Shi 史显磊	Polymer fiber-supported catalysis and polymer effects	Henan Polytechnic University 河南理工大学
15:45-15:55	Invited	Zhifeng Dai 戴志锋	Construction and Application of Functional Organic Polymer-based Heterogeneous Catalytic Materials	Zhejiang Sci-Tech University 浙江理工大学

15:55-16:05	Invited	Shiyuan Zhou 周仕元	Structural functionalized conjugated microporous polymers for enhanced hydrogen peroxide photosynthesis	Changzhou University 常州大学
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