



IMMS-11

第十一届国际介观结构材料研讨会

The 11th International Mesostructured Materials Symposium

会议程序册

Conference Program

Organization

International Mesostructured Materials Association

Dalian University of Technology

中国·大连
Dalian, China

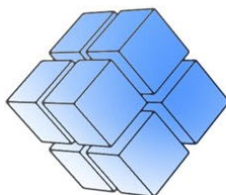
2021年9月5-8日
September 05-08, 2021



会议鸣谢



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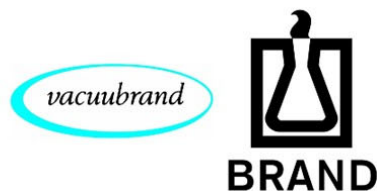
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Welcome

The International Mesosstructured Materials Association (IMMA) and Dalian University of Technology (DUT), cordially invite you to participate in the 11th International Mesosstructured Materials Symposium (IMMS-11). It is the first time in 15 years in China after IMMS-5 in Shanghai. The purpose of this innovative and comprehensive symposium is to introduce the latest research and development on science and applications of mesosstructured materials.

IMMA was created by a decision of the International Advisory Board of the 2nd International Symposium on Mesoporous Molecular Sieves (ISMMS 2000), at the occasion of ISMMS 2000 held in Québec City. The IMMS series is the most influential international academic conference in the field of mesoscopic structural materials. The IMMS has greatly promoted the communication and cooperation among researchers in the field of mesosstructured materials.



DUT is the first formal university of a new type founded by the government on the eve of the founding of the People's Republic of China. DUT keeps fostering elites, promoting science and technology, inheriting excellent cultures and guiding the social climate as its mission, adheres to DUT spirit of "Unity and Progress, Truth and Innovation". DUT has formed a multi-disciplinary system which focuses on science and engineering and coordinates science, engineering, etc. DUT dedicates itself to the creation, discovery, impart and application of knowledge, and endeavors to undertake social responsibilities to serve the country and the world.

I would like to take this opportunity to thank our speakers, sponsors, and volunteers all together to make this international symposium possible under the global and national COVID-19 travel restrictions. We look forward to an exceptional onsite and online gathering for sharing the cutting-edge advances at the frontiers of mesosstructured materials research. We sincerely hope you enjoy the meeting with your colleagues, friends in the mesosstructured materials community in-person or virtually - in 3D or in 2D in Dalian!

Warm regards,

Chair Person: An-Hui Lu

On behalf of the IMMS-11 Organizing Committee





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About IMMS-11

The IMMS-11 will be the first event that proceeds in hybrid form in IMMS history. Both the online and onsite programs is taking place at the scheduled time (September 05-08, 2021). The onsite venue is the International Finance Conference Center, Dalian, China. This IMMS-11 brings leading scientists and professionals from all over the world to facilitate communication and exchanges of the latest science and technology developments in the field of mesoscopic structural materials.



Onsite IMMS-11

IMMS-11 aims to showcase the latest progress in the field of mesoscopic structural materials, and to discuss the responsibilities, opportunities and challenges of mesoscopic functional materials in the new era of energy reform and sustainable development. The topics of the symposium covers all the aspects of mesostructured materials, including Materials Synthesis, Advanced Characterizations, Adsorption and Catalysis, Biology and Sensor, Energy Storage and Conversion, Mesostructured Materials and Beyond and Young Scientist Forum.

Online IMMS-11

Considering the special situations of COVID-19, scholars abroad and from high- or medium-risk areas in China cannot attend the onsite event. The organizing committee of the IMMS-11, working with our technical partner decided to adopt a hybrid of online and onsite programs to ensure that the symposium proceeds smoothly. For the virtual conference, all the presentations will be webcast to maximize the academic exchange under global COVID-19 influences.

Committee

Organization

International Mesostructured Materials Association
Dalian University of Technology

Chair

An-Hui Lu (*Dalian University of Technology*)

Secretary General

Guang-Ping Hao (*Dalian University of Technology*)

Session Chairs

Materials Synthesis

Wei Li (*Fudan University*)
Ben Liu (*Sichuan University*)

Energy Storage and Conversion

Zhen-An Qiao (*Jilin University*)
Morgen Stefik (*University of South Carolina*)

Adsorption and Catalysis

Ying Wan (*Shanghai Normal University*)
Pei Yuan (*Fuzhou University*)

Biology and Sensor

Xiaomin Li (*Fudan University*)
Yu Chen (*Shanghai University*)

Materials Characterization

Yanhang Ma (*Shanghai Tech University*)
Jun Xu (*Wuhan Institute of Physics and Mathematics, CAS*)

Young Scientist Forum and Materials Beyond

Guang-Ping Hao (*Dalian University of Technology*)
Dong Gu (*Wuhan University*)
Jinwoo Lee (*KAIST*)

Scientific Committee

Dongyuan Zhao (*Fudan University*)
Jianlin Shi (*Shanghai Institute of Ceramics, CAS*)
Xiaojun Peng (*Dalian University of Technology*)
Rong Cao (*Fujian Institute of Research on the Structure, CAS*)
Qiang Xu (*Southern University of Science and Technology*)
Jinping Li (*Taiyuan University of Technology*)
Shunai Che (*Shanghai Jiao Tong University*)
Zheng Hu (*Nanjing University*)
Weiguo Song (*Institute of Chemistry, Chinese Academy of Sciences*)
Feng-Shou Xiao (*Zhejiang University*)
Liqiang Mai (*Wuhan University of Technology*)
An-Hui Lu (*Dalian University of Technology*)
Peng Wu (*East China Normal University*)

Chunying Duan (*Dalian University of Technology*)
Zhiyong Tang (*National Center for Nanoscience and Technology*)
Xianfeng Li (*Dalian Institute of Chemical Physics, CAS*)
Wei Wang (*Lanzhou University*)
Ying Wan (*Shanghai Normal University*)
Qihua Yang (*Dalian Institute of Chemical Physics, CAS*)
Tierui Zhang (*Technical Institute of Physics and Chemistry, CAS*)

International Advisory Board

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Izabela Nowak (*Adam Mickiewicz University*)
Morgan Stefik (*University of South Carolina*)
Andreas Stein (*University of Minnesota*)

Local Organizing Committee

An-Hui Lu	Guang-Ping Hao	Lei He	Yun-Zhe Du
Xiao-Ling Dong	Wen-Duo Lu	Chen-Yu Liu	Rui-Jun Fan
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Shangru Zhai	Dongqi Wang	Yi Liu	Bingbing Sun
Qiang Fu	Yanqiang Huang	Aiqin Wang	Quan Shi
Ying-Ya Liu	Dehui Deng	Canghai Ma	De-Cai Guo
Yanhui Yi	Zhong-Shuai Wu	Jiaxu Liu	Rongfu Wen



Contact Information

负责项目	姓名	电话
总协调	郝广平	15841101419
会场会务	贺 雷	13942823310
	王永胜	13170421421
交通接站	高新芊	18742527235
	盛 健	18742526759
报到注册	董晓玲	13654949086
	吴 凡	17824823382
酒店住宿	陆文多	18742026975
	王永胜	13170421421
学术投稿	杜韞哲	13390049269
	巴雅琪	18453783761
墙报交流	陈 敬	13130043583
	李添翼	17803835885
招商参展	董晓玲	13654949086
网络支持	刘汝帅	18098860976
	刘子义	18638993009
会议咨询	刘宸宇	13009450642
	贺 雷	13942823310
防疫安全	杜韞哲	13390049269
	邱 彬	18742508375

Notice of Participation

主持人须知:

1. 主会场: 9月6日上午开幕式及大会报告, 8日上午大会报告及闭幕式。
2. 分会场: 9月6日下午以及7日全天, 根据主题征文情况, 共设7个分会场。
3. 大会报告(Plenary-PLE)每场35分钟, 提问5分钟; 分会主题报告(Keynote-KN)每场25分钟, 提问5分钟; 邀请报告(Invited speaker-INV)每场15分钟, 提问5分钟; 口头报告(Oral talk-O)每场8分钟, 提问2分钟。

参会人须知:

1. 本次会议所有报告全程网络转播, 如报告人不同意线上转播, 请提前告知会务组。
2. 为保证会场秩序和参会代表的安全, 会议期间请您随身佩戴代表证。
3. 报告人请在报告开始前20分钟将PPT拷贝到会场计算机, 如自带计算机, 请提前到演讲台调试。组委会承诺不复制并在报告后删除PPT。
4. Poster展区设置在2楼大厅, 展示时间为9月7日15:00-19:00。
5. 本次会议设置“优秀报告奖”、“优秀墙报奖”, 颁奖典礼在闭幕式上举行。
6. 在会场中, 请将手机等通讯设备调至振动或静音, 请勿大声喧哗, 禁止吸烟。
7. 参会期间, 请注意个人人身及财产安全, 请勿携带易燃易爆危险物品进入会场。

防疫须知:

在疫情特殊时期, 请各位参会人员注意以下事项, 并严格遵守防疫规则:

1. 来连前72小时, 请扫描下方二维码填写线上防疫信息收集表。
2. 进入会场时需出示国务院行程码或者辽事通健康码, 并测量体温。
3. 开会期间, 除主持人以及报告人外请全程佩戴口罩。
4. 会场门口放置应急口罩及消毒液, 如有需要可联系现场的工作人员领取使用。
5. 14天内有国内中高风险等疫情重点地区旅居史和接触史的报告人做线上报告。
6. 会议人员出现咳嗽、呼吸困难等不适症状或检测发现体温 $\geq 37.3^{\circ}\text{C}$, 请立即联系会议负责人, 启动应急处置, 安排就医排查, 并及时上报。



IMMS-11 Agenda

Date		Time	Content					
Sep. 6 Joyous Gathering Palace		08:00-08:30	Welcome Speech					
		08:30-09:10	PLE-1 Karen Edler					
		09:10-09:50	PLE-2 Jianlin Shi					
		10:20-11:00	PLE-3 Yusuke Yamauchi					
		11:00-11:40	PLE-4 Bao-Lian Su					
Sessions		Materials Synthesis	Materials Characterization	Adsorption and Catalysis A	Adsorption and Catalysis B	Biology and Sensor	Energy Storage and Conversion	Young Scientist Forum
Location		Conference Chamber 8	Conference Chamber 9	Joyous Gathering Palace A	Joyous Gathering Palace B	Conference Chamber 7	International Conference Hall	Amphitheater 1
Sep. 6	14:00 15:40	KN-101 Shunai Che	KN-201 Junliang Sun (Online)	KN-301 Rong Cao	KN-311 Yanze Du	KN-401 Zhi Ping (Gordon) Xu (Online)	KN-501 Liqiang Mai	KN-601 Landong Li
		INV-101 Angang Dong	INV-201 Peng Guo	KN-302 Lin-Bing Sun	KN-312 Yanqin Wang	INV-401 Dalong Ni		INV-601 Xuezhi Duan
		INV-102 Zhangxiong Wu	INV-202 Yihan Zhu (Online)			INV-402 Jingjing Wan	INV-501 Dongliang Chao	INV-602 Wei Qi
		INV-103 Yongsheng Li	O-201 Ningdong Feng	INV-301 You Han	INV-314 Fujian Liu	O-401 Jiefei Wang	INV-502 Pengfei Zhang	INV-603 Haibo Zhu
			O-202 Yuying Gao	INV-302 Yong Luo	O-308 Zhangjing Zhang	O-402 Han Lin	O-501 Xiao-Ling Dong	
		O-101 Hao Lv	O-203 Yonghe Li (Online)		O-309 Chao Liu	O-403 Tiancong Zhao	O-502 Bowen Jin	
	16:00 18:00	KN-102 Feng-Shou Xiao	KN-202 Zheng Jiang	KN-303 Weiguo Song	KN-313 Xinyong Li (Online)	KN-402 Chengzhong Yu	KN-502 Zhiyong Tang (Online)	INV-604 Wenfu Yan
		INV-104 Hengquan Yang		KN-304 Gang Fu	KN-314 Aiqin Wang			INV-605 Guidong Yang
		INV-105 Cuiling Li	INV-203 Dong Su	INV-303 Jianan Zhang	INV-315 Yongquan Qu	INV-403 Jiwei Cui		INV-606 Jing Xiao
			INV-204 Shenhui Li			O-404 Liang Chen	INV-503 Qianrong Fang	INV-607 Kui Xie
		INV-106 Liang Wang	INV-205 Zhengyang Zhou	INV-304 Jun Huang	INV-316 Wenshuai Zhu	O-405 Wencheng Wu	INV-504 Yiyong Mai (Online)	
		O-102 Hailong Xiong		INV-305 Lingzhi Wang	O-310 Ren Su	O-406 Yannan Yang	INV-505 Fengshou Yu	INV-608 Yanhui Yi
		O-103 Yuan Fang		O-301 Jianfeng Liu				INV-609 Yunqian Dai
		KN-103 Dan Wang	KN-203 Yu Han (Online)	KN-305 Ya-Huei (Cathy) Chin (Online)	KN-315 Wei Wang	KN-403 Quan Yuan	KN-503 Feng Li	INV-610 Liang Wang
			INV-206 Bingwen Hu		KN-316 Dingsheng Wang (Online)	INV-404 Daishun Ling	INV-506 Xiaoxin Zou	INV-611 Xiaodong Zhuang
		INV-107 Hai-Long Jiang	INV-207 Lu Han	KN-306 Peng Wu		INV-405 Jing Wei	INV-507 Liang Zhou	INV-612 Jiacheng Wang
		INV-108 Weihua Chen		INV-306 Fuwei Li	INV-317 Xingang Li	O-407 Chen-Yu Liu	INV-508 Jianwei Nai	INV-613 Jian-Ke Sun
		INV-109 Haoquan Zheng	INV-208 Xi Liu		O-311 Yu-Ting Lan	O-408 Minfeng Huo		
		O-104 Pengpeng Qiu	O-205 Tu Sun	INV-307 Hao Jiang	O-312 Yueqiang Cao	O-409 Jia Tian (Online)	O-503 Ling-Yu Dong	O-601 Yuenan Zheng
Sep. 7	08:30 09:40	INV-107 Hai-Long Jiang	INV-206 Bingwen Hu	KN-305 Ya-Huei (Cathy) Chin (Online)	KN-315 Wei Wang	KN-403 Quan Yuan	KN-503 Feng Li	INV-610 Liang Wang
						INV-404 Daishun Ling	INV-506 Xiaoxin Zou	INV-611 Xiaodong Zhuang
		INV-108 Weihua Chen	INV-207 Lu Han	KN-306 Peng Wu	KN-316 Dingsheng Wang (Online)	INV-405 Jing Wei	INV-507 Liang Zhou	INV-612 Jiacheng Wang
		INV-109 Haoquan Zheng	INV-208 Xi Liu	INV-306 Fuwei Li	INV-317 Xingang Li	O-407 Chen-Yu Liu	INV-508 Jianwei Nai	INV-613 Jian-Ke Sun
					O-311 Yu-Ting Lan	O-408 Minfeng Huo		

Date		Content								
Sessions		Materials Synthesis	Materials Characterization	Adsorption and Catalysis A	Adsorption and Catalysis B	Biology and Sensor	Energy Storage and Conversion	Young Scientist Forum		
Location		Conference Chamber 8	Conference Chamber 9	Joyous Gathering Palace A	Joyous Gathering Palace B	Conference Chamber 7	International Conference Hall	Amphitheater 1		
Sep. 7	10:00 12:00	KN-104 Liping Wen	INV-209 Libo Li	KN-307 Xiangchen Fang	KN-317 Yingxu Wei	KN-404 Yonghui Deng	KN-504 Yongsheng Hu	INV-614 Zhikun Zheng		
			INV-210 Wei Liu					INV-615 Xiao Feng		
		INV-110 Li-Hua Chen	INV-211 Jun Xu	KN-308 Zhimin Liu	INV-318 Jing Zhang	KN-405 Chung-Yuan Mou (Online)	INV-509 Yan Yu	INV-616 Yang Su		
		INV-111 Zhijie Yang	O-206 Shilei Xue	INV-308 Canghai Ma	O-313 Guihua Zhu	INV-406 Ping'an Ma	INV-510 Junjie Ge	INV-617 Qi Sun		
				O-302 Meiqi Gao	O-314 Xin-Yu Yang					
		O-105 Guo Du	O-207 Shaobo Han	O-303 Li Xu	O-315 Mingyuan Zheng	INV-407 Wenpei Fan	INV-511 Baojiang Jiang	INV-618 Pengcheng Gao		
		O-106 Wei Zhang	O-208 Yi Zhou	O-304 Xufang Qian	O-316 Zhankai Liu					
Sep. 7	14:00 15:40	KN-105 Zheng Hu	INV-212 Shutao Xu	KN-309 Qihua Yang	KN-318 Yawen Zhang (Online)	KN-406 Xian-Zheng Zhang	KN-505 Tierui Zhang	INV-619 Heqing Jiang		
			INV-112 Chong Peng					INV-213 Weili Dai	INV-309 Lijuan Song	KN-319 Dehui Deng
		INV-113 Jianping Yang		INV-214 Weiping Zhang	INV-310 Ying-Ya Liu	INV-319 Hiromi Yamashita (Online)	INV-409 Yin Fang	INV-513 Yingying Lv		
			INV-114 Huanrong Li	O-209 Zhenfeng Pang					O-305 Qin Yue	INV-410 Chun Xu
		O-210 Yu Wang		O-306 Shangru Zhai	O-317 Yue Wang					
		O-107 Minhan Li	O-212 Jie Zhu	O-307 Yiming Niu	O-318 Jiahao Ren	INV-411 Peter Hesemann (Online)	O-504 Xiao-Fei Yu	INV-623 Rong-Zhen Liao		
		16:00 18:00	KN-106 Qiang Xu	INV-215 Xueqian Kong	KN-310 Jian Liu	KN-320 Fengyu Zhao		KN-506 Huabin Xing	INV-624 Yuchun Zhi	
	INV-115 Yi Liu		INV-216 Jiaxu Liu	KN-321 Johannes A. Lercher (Online)		INV-515 Jijing Xu			INV-625 Yitao Dai	
	INV-116 Wei Luo		INV-217 Kuizhi Chen		INV-311 Li Song					
	O-108 Xiangcun Li		O-213 Pan Gao	INV-312 Martin Hartmann (Online)	INV-320 Guanghui Zhang	INV-516 Wei Xing				
	O-109 Shiyiing Li				O-319 Yuanyuan Yue					
	O-110 Nicole Abdou (Online)		O-214 Yin-Shan Meng	INV-313 Xi Liu		O-320 Yanru Zhu			INV-517 Mingfei Shao	
	Sep. 8 Joyous Gathering Palace				08:30-09:10	PLE-5 Ferdi Schüth				
		09:10-09:50	PLE-6 De Chen							
10:20-10:50		PLE-7 Dongyuan Zhao								
11:00-11:20		Award Ceremony								
11:20-11:30		Closing Remarks								



Plenary Lecture

Monday, September 6, 2021 Location: Joyous Gathering Palace	
Chair: An-Hui Lu <i>Dalian University of Technology</i>	
08:20-08:30	Welcome Speech
Chair: Dongyuan Zhao <i>Fudan University</i>	
08:30-09:10 PLE-1	Karen Edler <i>University of Bath</i> (Online) Mesostructured Metal Oxides from Deep Eutectic Solvents
09:10-09:50 PLE-2	Jianlin Shi <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> Mesoporous Silica Nanoparticle-Based Nanocatalytic Medicine for Tumor Therapy
09:50-10:20	Group Photo and Tea Break
Chair: Jianlin Shi <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i>	
10:20-11:00 PLE-3	Yusuke Yamauchi <i>The University of Queensland</i> (Online) Materials Space-Tectonics: A New Conceptual Paradigm for Conductive Porous Architectures
11:00-11:40 PLE-4	Bao-Lian Su <i>University of Namur</i> Hierarchy in Mesostructured Materials: Enhancing Performance Beyond Limits
Wednesday, September 8, 2021 Location: Joyous Gathering Palace	
Chair: Bao-Lian Su <i>University of Namur</i>	
08:30-09:10 PLE-5	Ferdi Schüth <i>Max Planck Institute</i> (Online) Designed Catalytic Nanomaterials
09:10-09:50 PLE-6	De Chen <i>Norwegian University of Science and Technology</i> (Online) Multifunctional Porous Materials for Process Intensification
09:50-10:20	Tea Break
Chair: An-Hui Lu <i>Dalian University of Technology</i>	
10:20-11:00 PLE-7	Dongyuan Zhao <i>Fudan University</i> Interfacial Assembly for the Synthesis of Novel Hierarchical Functional Mesoporous Materials
11:00-11:20	Award Ceremony
11:20-11:30	Closing Remarks

Topic Lecture

Session 1: Materials Synthesis

Monday, September 6, 2021 Location: Conference Chamber 8	
Chair: Feng-Shou Xiao, Hengquan Yang	
14:00-14:30 KN-101	Shunai Che <i>Shanghai Jiao Tong University</i> Library Creation of Ultrasmall Multi-Metallic Nanoparticles Confined in Mesoporous MFI Zeolites Directed by π - π Interactions of Amphiphilic Molecules
14:30-14:50 INV-101	Angang Dong <i>Fudan University</i> Functional Nanocrystal Superlattices and Derivatives
14:50-15:10 INV-102	Zhangxiong Wu <i>Soochow University</i> Solid-State Nanocasting for Controllable Synthesis of Functional Ordered Mesoporous Carbons and Their Catalytic Applications
15:10-15:30 INV-103	Yongsheng Li <i>East China University of Science and Technology</i> Predictable Synthesis of Hierarchically Mesoporous Materials and Their Potential Biomedical Applications
15:30-15:40 O-101	Hao Lv <i>Sichuan University</i> Aqueous Synthesis of Noble Metal Mesoporous Nanoparticles by the Utilization of the Novel Surfactants
15:40-16:00	Tea Break
Chair: Shunai Che, Angang Dong	
16:00-16:30 KN-102	Feng-Shou Xiao <i>Zhejiang University</i> Design and Synthesis of Mesostructured Zeolite Crystals
16:30-16:50 INV-104	Hengquan Yang <i>Shanxi University</i> Pickering Emulsion Droplets for Synthesizing Carbon Microspheres with Controlled Interior Structures and Their Catalytic Applications
16:50-17:10 INV-105	Cuiling Li <i>Beijing Institute of Technology</i> Mesoporous Metals for Confined Electrocatalysis
17:10-17:30 INV-106	Liang Wang <i>Zhejiang University of Technology</i> Mesoporous Metallic Electrocatalysts
17:30-17:40 O-102	Hailong Xiong <i>University of Science and Technology of China</i> Polymer-Oriented Self-Assembly towards Mesoporous Materials for Energy Storage
17:40-17:50 O-103	Yuan Fang <i>Donghua University</i> Incorporating Cobalt Nanoparticles in Nitrogen-Doped Mesoporous Carbon Spheres through Composite Micelles Assembly for High-Performance Lithium-Sulfur Batteries



Tuesday, September 7, 2021 Location: Conference Chamber 8

Chair: Liping Wen, Li-Hua Chen

08:00-08:30 KN-103	Dan Wang <i>Institute of Process Engineering, Chinese Academy of Sciences</i> Hollow Multi-Shelled Structure: A Promising Novel Materials
08:30-08:50 INV-107	Hai-Long Jiang <i>University of Science and Technology of China</i> Microenvironment Modulation in Metal-Organic Framework-Based Catalysis
08:50-09:10 INV-108	Weihua Chen <i>Zhengzhou University</i> Optimizing Solid Electrolyte Interphase via Rational Pore Design Enabling High-Performance Anode in Sodium-Ion Batteries
09:10-09:30 INV-109	Haoquan Zheng <i>Shaanxi Normal University</i> Design and Catalytic Performance of Hierarchically Structured Materials with Heterogeneous Interface
09:30-09:40 O-104	Pengpeng Qiu <i>Donghua University</i> Oriented Assembly of Nanostructured Functional Mesoporous Materials from Organic-Inorganic Composite Monomicelles
09:40-10:00	Tea Break

Chair: Dan Wang, Hai-Long Jiang

10:00-10:30 KN-104	Liping Wen <i>Technical Institute of Physics and Chemistry, Chinese Academy of Sciences</i> The Raising of Bioinspired Asymmetric Micro-Nanopore Membrane
10:30-10:50 INV-110	Li-Hua Chen <i>Wuhan University of Technology</i> Hierarchically Porous Zeolite Single Crystals for High Catalytic Efficiency
10:50-11:10 INV-111	Zhijie Yang <i>Shandong University</i> Self-Assembled Porous Nanoparticle Superlattices
11:10-11:20 O-105	Guo Du <i>Nankai University</i> Polyelectrolyte-Surfactant Mesomorphous Complex Templating: A Versatile Approach for Hierarchically Porous Polymer and Carbon Materials
11:20-11:30 O-106	Wei Zhang <i>Fudan University</i> Direct Insertion of Well-Designed Nanoparticles into Mesopore Networks

Tuesday, September 7, 2021 Location: Conference Chamber 8

Chair: Qiang Xu, Yi Liu

14:00-14:30 KN-105	Zheng Hu <i>Nanjing University</i> Mesostructured Carbon Nanocages: A New Platform for Advanced Energy Conversion and Storage
14:30-14:50 INV-112	Chong Peng <i>Sinopec Dalian (Fushun) Research Institute of Petroleum and Petrochemicals</i> Novel Zeolite Catalysts for Hydrocracking Light Cycle Oil into High Octane Gasoline
14:50-15:10 INV-113	Jianping Yang <i>Donghua University</i> Porous Carbon-Based Electrocatalysts for Nitrate Reduction
15:10-15:30 INV-114	Huanrong Li <i>Hebei University of Technology</i> Phosphors Derived from Silver-Exchanged Zeolites
15:30-15:40 O-107	Minhan Li <i>Donghua University</i> Residual Chlorine Induced Cationic Active Species on A Porous Copper Electrocatalyst for Highly Stable Electrochemical CO₂ Reduction to C₂+
15:40-16:00	Tea Break
Chair: Zheng Hu, Chong Peng	
16:00-16:30 KN-106	Qiang Xu <i>Southern University of Science and Technology</i> Metal-Organic Frameworks for Catalysis and Energy
16:30-16:50 INV-115	Yi Liu <i>Dalian University of Technology</i> Meso-Structure Controlled Synthesis of Molecular Sieve Membranes towards Superior Separation Performances
16:50-17:10 INV-116	Wei Luo <i>Donghua University</i> Enhancement in Sintering Driving Force Derived from In-situ Ordered Structural Collapse of Mesoporous Powders
17:10-17:20 O-108	Xiangcun Li <i>Dalian University of Technology</i> Porous Membranes Design and Energy Storage
17:20-17:30 O-109	Shiying Li <i>Institute of Coal Chemistry, Chinese Academy of Sciences</i> Control of MFI Crystal Assembly for Enhancing Catalytic and Adsorption Properties
17:30-17:40 O-110	Nicole Abdou <i>Institute Charles Gerhardt, France (Online)</i> Confinement Effect of Ionic Liquid in Ionosilica Based Ionogels



Session 2: Materials Characterization

Monday, September 6, 2021 Location: Conference Chamber 9	
Chair: Zheng Jiang, Dong Su	
14:00-14:30 KN-201	Junliang Sun <i>Peking University (Online)</i> 有机多孔材料结构确定
14:30-14:50 INV-201	Peng Guo <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Structural Characterizations of Industrial Zeolites by Powder X-ray Diffraction and Electron Crystallography
14:50-15:10 INV-202	Yihan Zhu <i>Zhejiang University of Technology (Online)</i> 低剂量电子显微技术微尺度表征应用进展
15:10-15:20 O-201	Ningdong Feng <i>Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences</i> Efficient and Selective Photocatalytic CH ₄ Conversion to CH ₃ OH with O ₂ by Controlling Overoxidation on TiO ₂
15:20-15:30 O-202	Yuying Gao <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Nano-Imaging Studies of Plasmonic Photocatalysis
15:30-15:40 O-203	Yonghe Li <i>Zhejiang University of Technology (Online)</i> Imaging of PTB7:PC ₇₁ BM-Based Photoactive Layers in A Scanning Electron Microscope: Methodology Aspects and Nanomorphology by Correlative SEM and STEM
15:40-16:00	Tea Break
Chair: Peng Guo	
16:00-16:30 KN-202	Zheng Jiang <i>Shanghai Synchrotron Radiation Facility, Shanghai Advanced Research Institute, Chinese Academy of Science</i> The Application of Synchrotron Radiation X-ray Spectroscopy in Energy Materials
16:30-16:50 INV-203	Dong Su <i>Institute of Physics, Chinese Academy of Sciences</i> 能源材料中相转化与界面结构的电子显微学分析
16:50-17:10 INV-204	Shenhui Li <i>Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences</i> Solid State NMR Characterization of the Host-Guest Interaction in the Gaseous Adsorption and Chemical Separation on MOFs
17:10-17:30 INV-205	Zhengyang Zhou <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> To Determine Mesoscopic Long-Range Order in Aperiodic Crystals with Diffraction Technique
17:30-17:40 O-204	Xiao Chen <i>Tsinghua University</i> A Single-Molecule Van Der Waals Compass

Tuesday, September 7, 2021 Location: Conference Chamber 9

Chair: Libo Li, Wei Liu

08:00-08:30 KN-203	Yu Han <i>King Abdullah University of Science and Technology (Online)</i> Advancing High-Resolution TEM Imaging of Electron Beam-Sensitive Materials from Impossible to Routine
08:30-08:50 INV-206	Bingwen Hu <i>East China Normal University</i> Magnetic Resonance for Metal-Ion Batteries: From NMR to EPR
08:50-09:10 INV-207	Lu Han <i>Tongji University</i> Electron Crystallographic Investigation of Crystals on the Mesoscale
09:10-09:30 INV-208	Xi Liu <i>Shanghai Jiao Tong University</i> Applications of Atomically-Resolved Secondary Electron Imaging Technique in Nanomaterials
09:30-09:40 O-205	Tu Sun <i>Shanghai Tech University</i> Atomic-Level Characterization of Dynamics of a 3D Covalent Organic Framework by Cryo-Electron Diffraction Tomography
09:40-10:00	Tea Break
Chair: Bingwen Hu, Lu Han	
10:00-10:20 INV-209	Libo Li <i>Taiyuan University of Technology</i> Light Hydrocarbons Separation in Metal-Organic Framework: Synthesis and Performance Regulation
10:20-10:40 INV-210	Wei Liu <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Electron Microscopy Attempts for Beam-Sensitive Materials
10:40-11:00 INV-211	Jun Xu <i>Nankai University</i> Multinuclear Solid-State NMR Studies of Porous Materials
11:00-11:10 O-206	Shilei Xue <i>Malvern Panalytical</i> 多功能 X-射线衍射系统对金属有机骨架化合物(MOFs)的多种表征方法
11:10-11:20 O-207	Shaobo Han <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> 环境电镜对催化剂微观结构的原位表征
11:20-11:30 O-208	Yi Zhou <i>Shanghai Tech University</i> 金属有机框架材料的电镜结构表征与解析



Tuesday, September 7, 2021 Location: Conference Chamber 9

Chair: Xueqian Kong, Jiaxu Liu

14:00-14:20 INV-212	Shutao Xu <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Investigation of Adsorption and Diffusion in Porous Materials by (HP) ^{129}Xe NMR and PFG NMR Spectroscopies
14:20-14:40 INV-213	Weili Dai <i>Nankai University</i> Lewis Acidic Sites Confined in Zeolites: Characterization and Application
14:40-15:00 INV-214	Weiping Zhang <i>Dalian University of Technology</i> Solid-State NMR Characterization on the Microstructure and Acidity of Zeolite Catalysts
15:00-15:10 O-209	Zhenfeng Pang <i>Zhejiang University</i> A Molecular View of Ligand on CdSe Nanocrystals
15:10-15:20 O-210	Yu Wang <i>South China University of Technology</i> Ligand Engineering of Nanocrystal Self-assembly Advanced by in Situ Liquid-Cell TEM
15:20-15:30 O-211	Zijia Wang <i>Center for High Pressure Science & Technology Advanced Research</i> Structural Evolution of Zeolites Under High Pressure
15:30-15:40 O-212	Jie Zhu <i>Dalian University of Technology</i> The Dynamics of Iron Catalysts during CO_2 Hydrogenation to Hydrocarbons
15:40-16:00	Tea Break
Chair: Shutao Xu, Weili Dai	
16:00-16:20 INV-215	Xueqian Kong <i>Zhejiang University</i> Tracing Defects in Metal-Organic Frameworks by Nuclear Magnetic Resonance
16:20-16:40 INV-216	Jiaxu Liu <i>Dalian University of Technology</i> Dual-Beam Fourier Transform Infrared Spectrometer: Applications and Potentials in Heterogeneous Catalysis
16:40-17:00 INV-217	Kuizhi Chen <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> The Discovery of Partially Bonded Al (IV) in Zeolites by 35.2 T NMR
17:00-17:10 O-213	Pan Gao <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> 固体 NMR 用于 OXZEO 催化合成气转化反应机理研究
17:10-17:20 O-214	Yin-Shan Meng <i>Dalian University of Technology</i> Experimental Determination of Magnetic Anisotropy in Lanthanide Metallocene Single-Molecule Magnet

Session 3: Adsorption and Catalysis A

Monday, September 6, 2021 Location: Joyous Gathering Palace A	
Chair: Weiguo Song, Jianan Zhang	
14:00-14:30 KN-301	Rong Cao <i>Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences</i> Porous Framework Based Catalysts for CO ₂ Conversion
14:30-15:00 KN-302	Lin-Bing Sun <i>Nanjing Tech University</i> Cuprous Adsorbents: Valence Modulation and Stabilization
15:00-15:20 INV-301	You Han <i>Tianjin University</i> ReaxFF Force Field Development and Application in Catalytic Reaction
15:20-15:40 INV-302	Yong Luo <i>Beijing University of Chemical Technology</i> Dispersion Behaviors of Droplet Impacting on Wire Mesh and Process Intensification by Surface Micro/Nano-Structure
15:40-16:00	Tea Break
Chair: Rong Cao, Lin-Bing Sun	
16:00-16:30 KN-303	Weiguo Song <i>Institute of Chemistry, Chinese Academy of Sciences</i> Single Atom Catalysts with Mesoporous Structure
16:30-17:00 KN-304	Gang Fu <i>Xiamen University</i> Mechanisms for Spatial Separation Hydrogenation
17:00-17:20 INV-303	Jianan Zhang <i>Zhengzhou University</i> Confinement Engineering for Electrocatalyst Design Regulated by Chemical Environment
17:20-17:40 INV-304	Jun Huang <i>The University of Sydney (Online)</i> Tailoring Mesoporous Zeolites for Efficient Catalysts in Sustainable Processes
17:40-18:00 INV-305	Lingzhi Wang <i>East China University of Science and Technology</i> Understanding the C-H Activation Mechanism of Photocatalytic Non-Oxidative Methane Coupling
18:00-18:10 O-301	Jianfeng Liu <i>Beishide Instrument</i> 多孔材料吸附分离性能评价方法



Tuesday, September 7, 2021 Location: Joyous Gathering Palace A

Chair: Zhimin Liu, Canghai Ma

08:00-08:30 KN-305	Ya-Huei (Cathy) Chin <i>University of Toronto (Online)</i> Catalytic Requirements for Hydrogen Attack Reactions in Fuel and Chemical Syntheses
08:30-09:00 KN-306	Peng Wu <i>East China Normal University</i> Design Synthesis of Large-Pore or New Zeolites from Layered Precursors
09:00-09:20 INV-306	Fuwei Li <i>Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences</i> Heterogeneous Catalytic Construction and Transformation of C=O/CO Bonds in Oxygen-Containing Compounds
09:20-09:40 INV-307	Hao Jiang <i>East China University of Science and Technology</i> Interface Engineering of Noble-Metal-Free Electrocatalysts Toward Efficient Water Splitting
09:40-10:00	Tea Break
Chair: Peng Wu, Fuwei Li	
10:00-10:30 KN-307	Xiangchen Fang <i>Sinopec Dalian (Fushun) Research Institute of Petroleum and Petrochemicals</i> Study on the Structure-Activity Relationship of Hydrogenation Catalysts
10:30-11:00 KN-308	Zhimin Liu <i>Institute of Chemistry, Chinese Academy of Sciences</i> Porous Polymer Catalysts for Transformation of Carbon Dioxide
11:00-11:20 INV-308	Canghai Ma <i>Dalian University of Technology</i> Engineering Nanoporous Morphology of Advanced Membranes for CO ₂ Capture
11:20-11:30 O-302	Meiqi Gao <i>Shanghai Normal University</i> Self-Enhancing Catalytic Activity of Mesoporous Titania Supported Pt Nanoclusters
11:30-11:40 O-303	Li Xu <i>Jiangsu University</i> Design of Non-Precious Metal Catalysts for Oxygen Reduction Reaction and Oxygen Evolution Reaction
11:40-11:50 O-304	Xufang Qian <i>Shanghai Jiao Tong University</i> Na ₂ S ₂ O ₈ Activation by Mesoporous Carbon/Nano-Iron for Organic Pollutant Removal

Tuesday, September 7, 2021 Location: Joyous Gathering Palace A

Chair: Jian Liu, Li Song

14:00-14:30 KN-309	Qihua Yang <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Synthesis of Covalent Organic Frameworks for Photocatalysis: Mediating the Charge Separation
14:30-14:50 INV-309	Lijuan Song <i>China University of Petroleum (EastChina), Liaoning Petrochemical University</i> Identification of Mass Transfer Properties of Zeolite Materials at Mesoscopic Scale
14:50-15:10 INV-310	Ying-Ya Liu <i>Dalian University of Technology</i> Flow Synthesis of ZIF-67: A Recyclable Approach
15:10-15:20 O-305	Qin Yue <i>University of Electronic Science and Technology of China</i> Colloidal Interface Assembly for Functional Core-Shell Mesoporous Materials
15:20-15:30 O-306	Shangru Zhai <i>Dalian Polytechnic University</i> Ordered PMS Activator for Efficient Organic Pollutant Degradation
15:30-15:40 O-307	Yiming Niu <i>Institute of Metal Research, Chinese Academy of Sciences</i> In-Situ Probing the Microstructure and Structure-performance Relationship of Acetylene Selective Hydrogenation Catalysts
15:40-16:00	Tea Break
Chair: Qihua Yang, Lijuan Song	
16:00-16:30 KN-310	Jian Liu <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Mesostructured Micro/Nano-Reactors for Sustainable Catalysis
16:30-16:50 INV-311	Li Song <i>University of Science and Technology of China</i> Synchrotron-Based Multispectral Probing Electrocatalysts
16:50-17:10 INV-312	Martin Hartmann <i>Friedrich-Alexander-Universität Erlangen-Nürnberg (Online)</i> Controlled Release and Selective Adsorption of Carbamazepine with Mesoporous Silica Materials
17:10-17:30 INV-313	Xi Liu <i>Shanghai Jiao Tong University</i> Chemical Environment Induced Re-Dispersion of Ag Nanoparticles Visualized by Using In-situ TEM Techniques



Session 3: Adsorption and Catalysis B

Monday, September 6, 2021 Location: Joyous Gathering Palace B

Chair: Aiqin Wang, Wenshuai Zhu

14:00-14:30 KN-311	Yanze Du <i>Sinopec Dalian (Fushun) Research Institute of Petroleum and Petrochemicals</i> Zeolite Innovation for the Transformation and Upgrading of Refining Industry
14:30-15:00 KN-312	Yanqin Wang <i>East China University of Science and Technology</i> NbO _x -Based Catalysts: Synthesis and Application in Lignin/Aromatic Plastics Conversion
15:00-15:20 INV-314	Fujian Liu <i>Fuzhou University</i> Ordered Mesoporous Materials for Selective Elimination of Gaseous Sulfides
15:20-15:30 O-308	Zhangjing Zhang <i>Fujian Normal University</i> Flexibility in Crystalline Porous Materials
15:30-15:40 O-309	Chao Liu <i>East China Normal University</i> Interfacial Assembly of Metal-Organic Frameworks for Catalysis
15:40-16:00	Tea Break
Chair: Yanze Du, Fujian Liu	
16:00-16:30 KN-313	Xinyong Li <i>Dalian University of Technology</i> Surface-Interface Charge-Transfer Process on the Heterogeneous Catalysis by In Situ Spectroscopy
16:30-17:00 KN-314	Aiqin Wang <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Single-Atom Catalysis: Coordination Structure and Dynamic Behavior of M-N-C Materials
17:00-17:20 INV-315	Yongquan Qu <i>Northwestern Polytechnical University</i> Insights into Hydrogen Spillover for Electrocatalytic Hydrogen Evolution
17:20-17:40 INV-316	Wenshuai Zhu <i>Jiangsu University</i> Ultra-Deep Desulfurization of Diesel Based on Adsorption-Catalytic Oxidation Tandem Method
17:40-17:50 O-310	Ren Su <i>Soochow University</i> Surface Hydroxylated Ni ₃ Fe-MOF-OH Bifunctional Electrocatalyst with Enhanced Adsorption of Nitroarenes and Anilines for Paired N-N Coupling

Tuesday, September 7, 2021 Location: Joyous Gathering Palace B	
Chair: Yingxu Wei, Jing Zhang	
08:00-08:30 KN-315	Wei Wang <i>Lanzhou University</i> Constructing Crystalline Organic Frameworks via Covalent Assembly
08:30-09:00 KN-316	Dingsheng Wang <i>Tsinghua University (Online)</i> Metal Nanocatalysis
09:00-09:20 INV-317	Xingang Li <i>Tianjin University</i> Controlling Product Selectivity of Fischer-Tropsch Synthesis via Tuning Adsorbability of Carbon Species on Metal Sites
09:20-09:30 O-311	Yu-Ting Lan <i>Shenyang Normal University</i> Highly Dispersed Silver Nanoparticles Supported on HAP Catalyst with Different Morphology for CO Oxidation
09:30-09:40 O-312	Yueqiang Cao <i>East China University of Science and Technology</i> Kinetics-Assisted Design and Taming of Catalytic Active Sites for Selective Hydrogenation
09:40-10:00	Tea Break
Chair: Wei Wang, Xingang Li	
10:00-10:30 KN-317	Yingxu Wei <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Water-Induced Structural Dynamic Process of Molecular Sieve
10:30-10:50 INV-318	Jing Zhang <i>Liaoning Petrochemical University</i> Surface Phase Junction Engineering for Boosting Photocatalytic Activity
10:50-11:00 O-313	Guihua Zhu <i>Donghua University</i> Modulating the Electronic Structure of FeCo Nanoparticles in N-Doped Mesoporous Carbon Frameworks for Highly Efficient Oxygen Reduction Reaction
11:00-11:10 O-314	Xin-Yu Yang <i>Shenyang Normal University</i> A Unique Morphology and Interface Confine Strategy Enables MgAl Layered Double Hydroxides Supported Nano-platinum Catalyst with Enhanced Performance
11:10-11:20 O-315	Xianquan Li <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Catalytic Conversion of Ethanol to 1,3-Butadiene in Two Steps over Hierarchical Zeolite Based Catalysts
11:20-11:30 O-316	Zhankai Liu <i>Dalian University of Technology</i> Plasma Tuning Local Environment of Hexagonal Boron Nitride for Oxidative Dehydrogenation of Propane



Tuesday, September 7, 2021 Location: Joyous Gathering Palace B

Chair: Fengyu Zhao, Guanghui Zhang

14:00-14:30 KN-318	Yawen Zhang <i>Peking University (Online)</i> Catalytic Transformation of Carbon Dioxide into High-value Added Chemicals
14:30-15:00 KN-319	Dehui Deng <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Low-Temperature Conversion of C1 Molecules with 2D Catalyst
15:00-15:20 INV-319	Hiromi Yamashita <i>Osaka University (Online)</i> PdAg Alloy Nanoparticles Encapsulated in N-Doped Microporous Hollow Carbon Spheres for Hydrogenation of CO ₂ to Formate
15:20-15:30 O-317	Yue Wang <i>Tianjin University</i> Catalytic Hydrogenation of Esters to Alcohols inside Mesoporous Materials: Adsorption and Diffusion Effect
15:30-15:40 O-318	Jiahao Ren <i>Beijing University of Chemical Technology</i> Computer-Aided Discovery of MOFs with Calixarene-Analogous Microenvironment for Exceptional SF ₆ Capture
15:40-16:00	Tea Break
Chair: Dehui Deng	
16:00-16:30 KN-320	Fengyu Zhao <i>Changchun Institute of Applied Chemistry Chinese Academy of Sciences</i> Significance of Brønsted Acid Sites in Controlling Product Selectivity of Hydrodeoxygenation over the ZSM-5 Supported Ru Catalysts
16:30-17:00 KN-321	Johannes A. Lercher <i>Technische Universität München</i> Structure and Organization of Water in Confined Space-Impact on Sorption and Catalytic Transformations
17:00-17:20 INV-320	Guanghui Zhang <i>Dalian University of Technology</i> Structural Evolution of Metal Oxide Catalysts during CO ₂ Hydrogenation
17:20-17:30 O-319	Yuanyuan Yue <i>Fuzhou University</i> Green Synthesis of Hierarchical Zeolites via a Mesoscale Depolymerization-Reorganization Approach
17:30-17:40 O-320	Yanru Zhu <i>Beijing University of Chemical Technology</i> Mesostructured Layered Double Hydroxides-Based Supported Metal Catalysts: Nanostructure Design and Construction

Session 4: Biology and Sensor

Monday, September 6, 2021 Location: Conference Chamber 7	
Chair: Chengzhong Yu, Jiwei Cui	
14:00-14:30 KN-401	Zhi Ping (Gordon) Xu <i>University of Queensland (Online)</i> Development of Cu-Containing Layered Double Hydroxide Hybrid Nanoparticles for Efficient Combination Cancer Therapy
14:30-14:50 INV-401	Dalong Ni <i>Shanghai Jiao Tong University</i> Regulating the Oxygen Vacancy for Medical Applications
14:50-15:10 INV-402	Jingjing Wan <i>East China Normal University</i> Novel Functional Materials for Metabolic Diagnosis
15:10-15:20 O-401	Jiefei Wang <i>Henan University</i> NIR Nanotheranostics for Brain Diseases
15:20-15:30 O-402	Han Lin <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> Recent Advances in Physical Field-Responsive Nanocatalytic Tumor Therapeutics
15:30-15:40 O-403	Tiancong Zhao <i>Fudan University</i> Surface Confined Winding Assembly of Mesoporous Nanorods
15:40-16:00	Tea Break
Chair: Dalong Ni, Jingjing Wan	
16:00-16:30 KN-402	Chengzhong Yu <i>University of Queensland</i> Mesoporous Nanoparticles as Carriers and Biomodulators for Drug Delivery Applications
16:30-16:50 INV-403	Jiwei Cui <i>Shandong University</i> Rational Design of Poly(Ethylene Glycol) Nanoparticles for Targeted Drug Delivery
16:50-17:00 O-404	Liang Chen <i>Shanghai University</i> Overcoming Biological Barriers with Porous Biomaterials for Efficient Theranostic Applications
17:00-17:10 O-405	Wencheng Wu <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> 多孔纳米材料触发的药物原位转换在肿瘤治疗中的研究与应用
17:10-17:20 O-406	Yannan Yang <i>Fudan University, The University of Queensland</i> Biomodulatory Mesoporous Nanoparticles Based Biomedicines for Cancer Therapy



Tuesday, September 7, 2021 Location: Conference Chamber 7

Chair: Yonghui Deng, Ping'an Ma

08:00-08:30 KN-403	Quan Yuan <i>Hunan University</i> Controlled Synthesis of Persistent Luminescence Nanomaterials
08:30-08:50 INV-404	Daishun Ling <i>Shanghai Jiao Tong University</i> Dynamic Nano-Assemblies Based Biomaterials & Drug Delivery Systems
08:50-09:10 INV-405	Jing Wei <i>Xi'an Jiaotong University</i> Self-Template Synthesis of Spherical Mesoporous Metal Oxides for Gas Sensing
09:10-09:20 O-407	Minfeng Huo <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> Nanocatalytic Tumor Therapeutics Enabled by Mesostructured Materials
09:20-09:30 O-408	Jia Tian <i>Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences (Online)</i> Water-soluble Organic Frameworks: Design, Construction and Potential Pharmaceutical Applications
09:30-09:40 O-409	Chen-Yu Liu <i>Dalian University of Technology</i> Application of Sponge DA Material in Antibacterial Hemostasis
09:40-10:00	Tea Break
Chair: Quan Yuan, Daishun Ling	
10:00-10:30 KN-404	Yonghui Deng <i>Fudan University</i> Mesoporous Semiconductor Metal Oxides for Gas Sensing Applications
10:30-11:00 KN-405	Chung-Yuan Mou <i>National Taiwan University (Online)</i> Mesoporous Silica Nanoparticles for Cancer Therapy
11:00-11:20 INV-406	Ping'an Ma <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences</i> Tumor Microenvironment-Triggered In-Situ Cancer Vaccines for Immunotherapy
11:20-11:40 INV-407	Wenpei Fan <i>China Pharmaceutical University</i> Hollow Mesoporous Organosilica Nanotheranostics

Tuesday, September 7, 2021 Location: Conference Chamber 7

Chair: Xian-Zheng Zhang, Bingbing Sun

14:00-14:30 KN-406	Xian-Zheng Zhang <i>Wuhan University</i> Functional Peptide Based Materials for Biomedical Applications
14:30-14:50 INV-408	Bingbing Sun <i>Dalian University of Technology</i> Engineered Aluminum-Based Nanoadjuvants for Prophylactic Vaccines
14:50-15:10 INV-409	Yin Fang <i>Tongji University</i> Mesoporous Materials and Micro-Devices for Biomodulations
15:10-15:30 INV-410	Chun Xu <i>University of Queensland</i> (Online) Designer nanoparticles for biomedical applications
15:30-15:50 INV-411	Peter Hesemann <i>Institute Charles Gerhardt, France</i> (Online) Mesoporous Ionosilica Nanoparticles for Biomedical Applications: Drug Delivery, Photodynamical Therapy and Photochemical Internalization of siRNA



Session 5: Energy Storage and Conversion

Monday, September 6, 2021 Location: International Conference Hall	
Chair: Qianrong Fang, Fengshou Yu	
14:00-14:30 KN-501	Liqiang Mai <i>Wuhan University of Technology</i> One Dimensional Nanomaterials for Emerging Energy Storage
14:30-14:50 INV-501	Dongliang Chao <i>Fudan University</i> Zinc Electrochemistry and Device
14:50-15:10 INV-502	Pengfei Zhang <i>Shanghai Jiao Tong University</i> Mechanochemical Synthesis of Porous Solid Catalysts
15:10-15:20 O-501	Xiao-Ling Dong <i>Dalian University of Technology</i> Rational Design of Carbon Anodes for Efficient Storage of Na Ions
15:20-15:30 O-502	Bowen Jin <i>Beijing University of Chemical Technology</i> Tunable Built-in Electric Fields Enable High-Performance One Dimensional Co-axial MoO _x /MoON Heterojunction Nanotube Arrays for Thin-Film Pseudocapacitive Charge Storage Devices
15:30-16:00	Tea Break
Chair: Liqiang Mai, Dongliang Chao	
16:00-16:30 KN-502	Zhiyong Tang <i>National Center for Nanoscience and Technology (Online)</i> Boosting the Efficiency of Electrocatalytic CO ₂ Reduction via Nanoprison Effect
16:30-16:50 INV-503	Qianrong Fang <i>Jilin University</i> Design and Applications of Functionalized Covalent Organic Frameworks
16:50-17:10 INV-504	Yiyong Mai <i>Shanghai Jiao Tong University (Online)</i> Controlled Preparation of Mesoporous Nanomaterials for Energy Storage and Conversion by Tunable Self-Assembly of Block Copolymers in Solution
17:10-17:30 INV-505	Fengshou Yu <i>Hebei University of Technology</i> The Effect of Asymmetric Coordination Environment on Electro Catalytic Performance

Tuesday, September 7, 2021 Location: International Conference Hall

Chair: Yongsheng Hu, Yan Yu

08:00-08:30 KN-503	Feng Li <i>Institute of Metal Research, Chinese Academy of Sciences</i> Surface and Pore Size of Graphene during Electrochemical Process
08:30-08:50 INV-506	Xiaoxin Zou <i>Jilin University</i> Structural Chemistry of Electrocatalysts for Water Splitting
08:50-09:10 INV-507	Liang Zhou <i>Wuhan University of Technology</i> Silicon Oxides: A Promising Family of Anode Materials for Lithium-Ion Batteries
09:10-09:30 INV-508	Jianwei Nai <i>Zhejiang University of Technology</i> Crystal Engineering of Inorganic Micro- and Nano-Materials for Energy Applications
09:30-09:40 O-503	Ling-Yu Dong <i>Dalian University of Technology</i> Marked Enhancement of Electrocatalytic Activities for Gas-Consuming Reactions by Bimodal Mesopores
09:40-10:00	Tea Break
Chair: Feng Li, Xiaoxin Zou	
10:00-10:30 KN-504	Yongsheng Hu <i>Institute of Physics, Chinese Academy of Sciences</i> 1 MWh 钠离子电池储能系统
10:30-10:50 INV-509	Yan Yu <i>University of Science and Technology of China</i> Advanced Sodium Ion Batteries
10:50-11:10 INV-510	Junjie Ge <i>Changchun Institute of Applied Chemistry, Chinese Academy of Sciences</i> Proton Exchange Membrane Fuel Cells Powered with H ₂ /CO Mixture and Pure Carbon Monoxide
11:10-11:30 INV-511	Baojiang Jiang <i>Heilongjiang University</i> Material Control Synthesis for Artificial Conversion of Solar Energy



Tuesday, September 7, 2021 Location: International Conference Hall

Chair: Huabin Xing, Jijing Xu

14:00-14:30 KN-505	Tierui Zhang <i>Technical Institute of Physics and Chemistry, Chinese Academy of Sciences</i> Defective Layered Double Hydroxide Based Nanostructured Photocatalysts
14:30-14:50 INV-512	Gengfeng Zheng <i>Fudan University</i> Electrocatalytic CO ₂ Reduction toward C ₂ + Alcohols
14:50-15:10 INV-513	Yingying Lv <i>Shanghai University</i> Largely Improved Battery Performance by Ultra-Thin Porous Protection Layer Construction
15:10-15:30 INV-514	Qing Han <i>Beijing Institute of Technology</i> Conjugated Carbon Nitride Materials toward Photocatalysis
15:30-15:40 O-504	Xiao-Fei Yu <i>Dalian University of Technology</i> Porous Carbon/Borocarbonitride Hybrid with High Tap Density as a Polar Host for Ultralong Life Lithium-Sulfur Batteries
15:40-16:00	Tea Break
Chair: Tierui Zhang, Gengfeng Zheng	
16:00-16:30 KN-506	Huabin Xing <i>Zhejiang University</i> Anion-Functionalized Ultramicroporous Materials for Separation of Hydrocarbons
16:30-16:50 INV-515	Jijing Xu <i>Jilin University</i> Research on Solid-State Metal Air Batteries Assisted by External Fields
16:50-17:10 INV-516	Wei Xing <i>China University of Petroleum (East China)</i> Preparation and Electrochemical Properties of Transition Metal (Hydrogen) Oxide-Based Hybrid Supercapacitor Electrode Materials
17:10-17:30 INV-517	Mingfei Shao <i>Beijing University of Chemical Technology</i> Reversible Intercalation of Metal Cations towards High-Performance Batteries

Session 6: Young Scientist Forum and Materials Beyond

Monday, September 6, 2021 Location: Amphitheater 1	
Chair: Wenfu Yan, Jing Xiao	
14:00-14:40 KN-601	Landong Li <i>Nankai University</i> Extraframework Cations in Zeolites Construction and Applications
14:40-15:00 INV-601	Xuezhi Duan <i>East China University of Science and Technology</i> Nano-Kinetics Modelling: A Tool to Design and Optimize Supported Noble Metal Catalysts
15:00-15:20 INV-602	Wei Qi <i>Institute of Metal Research, Chinese Academy of Sciences</i> Primary Alcohol Conversion on Carbon-Based Catalysts: From Reaction Mechanism to Catalyst Design
15:20-15:40 INV-603	Haibo Zhu <i>Fuzhou University</i> Pt Stabilized on Mesoporous Zeolite and Alumina as Effective Catalysts for Propane Dehydrogenation
15:40-16:00	Tea Break
Chair: Landong Li, Xuezhi Duan	
16:00-16:20 INV-604	Wenfu Yan <i>Jilin University</i> The Inorganic Cation-Tailored “Trapdoor” Effect of Silicoaluminophosphate Zeolite for Highly Selective CO ₂ Separation
16:20-16:40 INV-605	Guidong Yang <i>Xi'an Jiaotong University</i> The Research of Solar-Driven Water Splitting to Produce Hydrogen
16:40-17:00 INV-606	Jing Xiao <i>South China University of Technology</i> Ultramicroporous Carbons Featuring Sub-Ångstrom Tunable Apertures for the Selective Separation of Light Hydrocarbon
17:00-17:20 INV-607	Kui Xie <i>Fujian Institute of Research on the Structure, Chinese Academy of Sciences</i> Porous Single Crystals and Heterogeneous Catalysis
17:20-17:40 INV-608	Yanhui Yi <i>Dalian University of Technology</i> Modification of Catalytic Materials by Plasma for Conversion of Light Alkanes
17:40-18:00 INV-609	Yunqian Dai <i>Southeast University</i> Functionalization and Application of Inorganic Porous Nanofibers



Tuesday, September 7, 2021 Location: Amphitheater 1

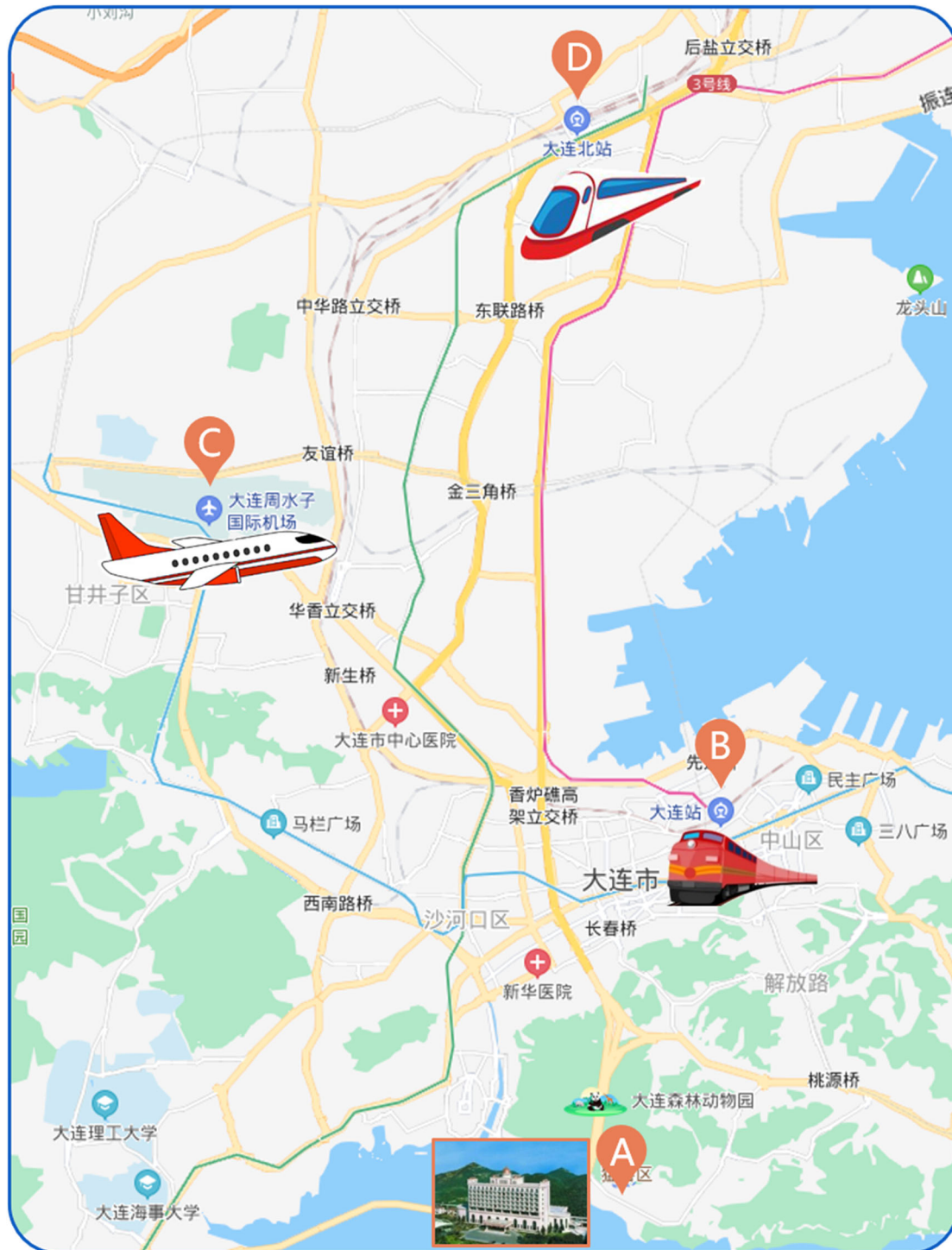
Chair: Zhikun Zheng, Xiao Feng

08:00-08:20 INV-610	Liang Wang <i>Zhejiang University</i> RhMn@Zeolite Catalyst for Syngas Conversion
08:20-08:40 INV-611	Xiaodong Zhuang <i>Shanghai Jiao Tong University</i> Bottom-up Design of Porous Carbons with Rich Topological Defects for Energy Conversion
08:40-09:00 INV-612	Jiacheng Wang <i>Shanghai Institute of Ceramics, Chinese Academy of Sciences</i> 电催化材料与能源器件
09:00-09:20 INV-613	Jian-Ke Sun <i>Beijing Institute of Technology</i> High-Efficient Synthesis of Porous Organic Cages for Catalytic Applications
09:20-09:30 O-601	Yuenan Zheng <i>Jilin University</i> Controllable Synthesis and Application of Mesoporous Metal Oxides with Complex Structure
09:30-10:00	Tea Break
Chair: Liang Wang, Xiaodong Zhuang	
10:00-10:20 INV-614	Zhikun Zheng <i>Sun Yat-sen University</i> Two-Dimensional Polymer Films: Synthesis and Structure Control
10:20-10:40 INV-615	Xiao Feng <i>Beijing Institute of Technology</i> Mass Transfer and Separation in Porous Material-Based Membranes
10:40-11:00 INV-616	Yang Su <i>Tsinghua University (Shenzhen)</i> Modulation of Molecular Transport Nanochannels inside Graphene Oxide Membrane
11:00-11:20 INV-617	Qi Sun <i>Zhejiang University</i> Ionic Covalent Organic Framework Membranes for Blue Energy Harvesting
11:20-11:40 INV-618	Pengcheng Gao <i>China University of Geosciences (Wuhan)</i> Distinct Functional Elements for Outer-Surface Anti-Interference and Inner-Wall Ion Gating of Nanochannels

Materials Beyond	
Tuesday, September 7, 2021 Location: Amphitheater 1	
Chair: Heqing Jiang, Dong Gu	
14:00-14:20 INV-619	Chunjiang Jia <i>Shandong University</i> Active Metal Cluster-Oxygen Vacancy Synergistic Catalysis
14:20-14:40 INV-620	Heqing Jiang <i>Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences</i> Mixed Conducting Ceramic Membranes for Hydrogen Production
14:40-15:00 INV-621	Rong-Zhen Liao <i>Huazhong University of Science and Technology</i> Transition Metal Based Redox Catalysis: A Computational Perspective
15:00-15:20 INV-622	Jiahong Pan <i>North China Electric Power University</i> Self-Assembly and Phase Transition of Hydrated TiO₂ Colloidal Spheres for Photo/Electrochemical Applications
15:20-15:40 INV-623	Dong Gu <i>Wuhan University</i> Design of Mesoporous Materials as Heterogeneous Catalysts for Organic Molecule Construction
15:40-16:00	Tea Break
16:00-16:20 INV-624	Yuchun Zhi <i>Dalian Institute of Chemical Physics, Chinese Academy of Sciences</i> Autocatalysis Mechanism, Deactivation and Coke Adjustment of Methanol-to-Olefins Reaction
16:20-16:40 INV-625	Yitao Dai <i>Suzhou Institute for Advanced Research, University of Science and Technology of China</i> Bismuth-Based All-Inorganic Halide Perovskites as Visible-Light Photocatalysts for Organic Transformations



Traffic Guide



A 大连国际金融会议中心
Dalian International Finance Conference Center

B 大连火车站
Dalian Railway Station

C 大连周水子国际机场
Dalian International Airport

D 大连北站
Dalian North Railway Station

1. 大连周水子国际机场 → 国际金融会议中心 (Dalian International Airport → Dalian International Finance Conference Center)

出租车 (by taxi): 全程约 16 公里, 用时约 30 分钟, 费用预计 35 元

地铁/公交 (by subway/bus): 乘坐地铁 2 号线 (步行 217 米, 机场站 A 口进入, 海之韵方向) → 人民广场地铁站 C 口出站 (共 10 站, 用时约 30 分钟, 费用 3 元), 步行 210 米, 换乘 702/541 路公交车, 长春路公交站 (森林动物园南门方向) → 银沙滩公交站 (共 14 站, 用时约 25 分钟, 费用 1 元), 步行 82 米, 到达大连国际金融会议中心。

2. 大连火车站 → 国际金融会议中心 (Dalian Railway Station → Dalian International Finance Conference Center)

出租车 (by taxi): 全程约 10 公里, 用时约 25 分钟, 费用预计 25 元

公交 (by bus): 乘坐 702 路公交车 (步行 445 米, 森林动物园南门方向), 友好广场公交站 → 银沙滩公交站 (共 18 站, 费用 1 元), 步行 82 米, 到达大连国际金融会议中心, 总用时约 1 小时。

3. 大连北站 → 国际金融会议中心 (Dalian North Railway Station → Dalian International Finance Conference Center)

出租车 (by taxi): 全程约 22 公里, 用时约 40 分钟, 费用预计 50 元

公交 (by bus): 乘坐 1022 路公交车 (步行 588 米, 青泥洼桥方向), 海盛花园公交站 → 长春路公交站 (共 22 站, 费用 2 元), 同站换乘 541/702 路公交车 (森林动物园南门方向) → 银沙滩公交站 (共 13 站, 费用 1 元), 步行 82 米, 到达大连国际金融会议中心, 总用时约 2 小时。

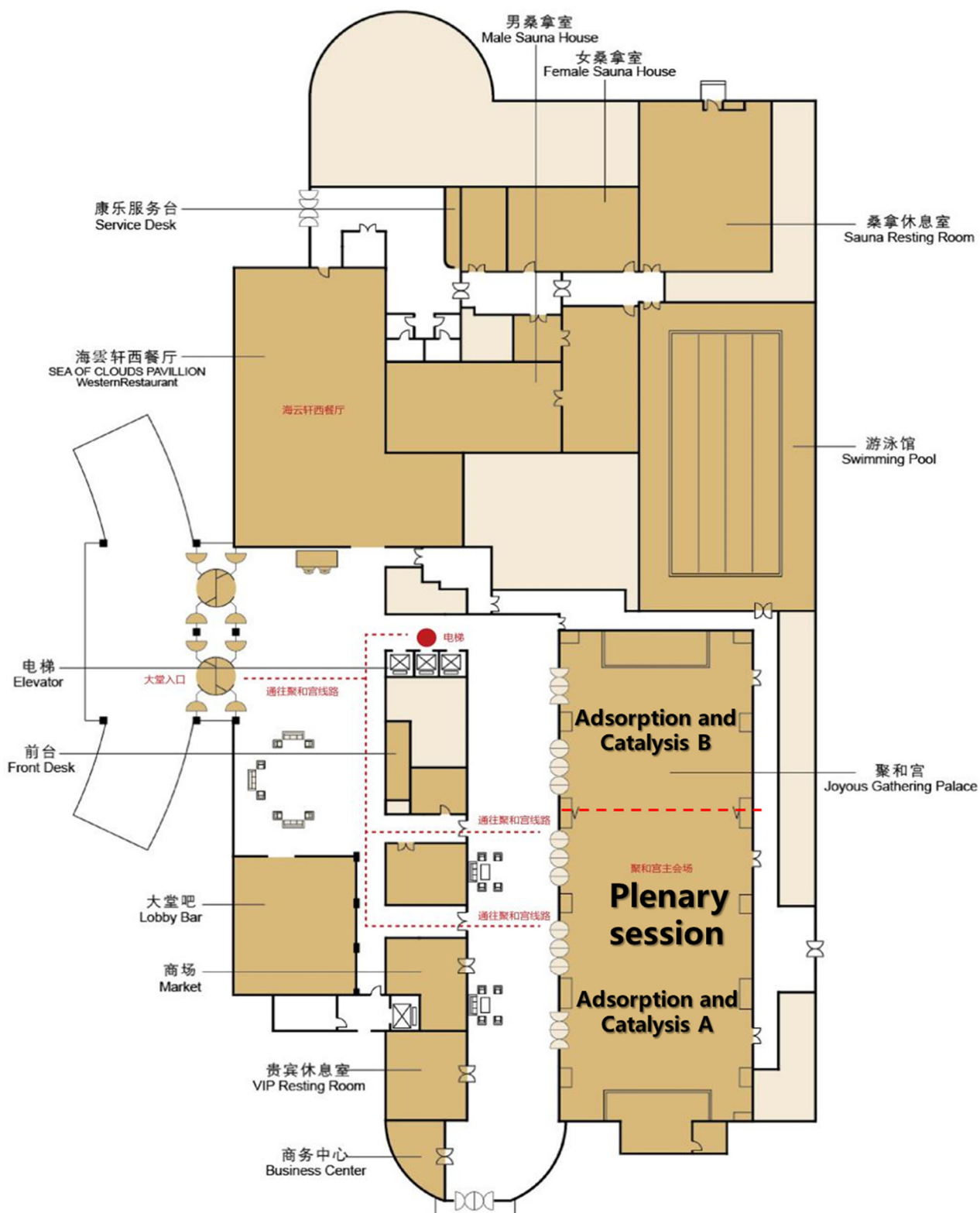


Conference Venue

国际金融会议中心布局图 Hotel Layouts

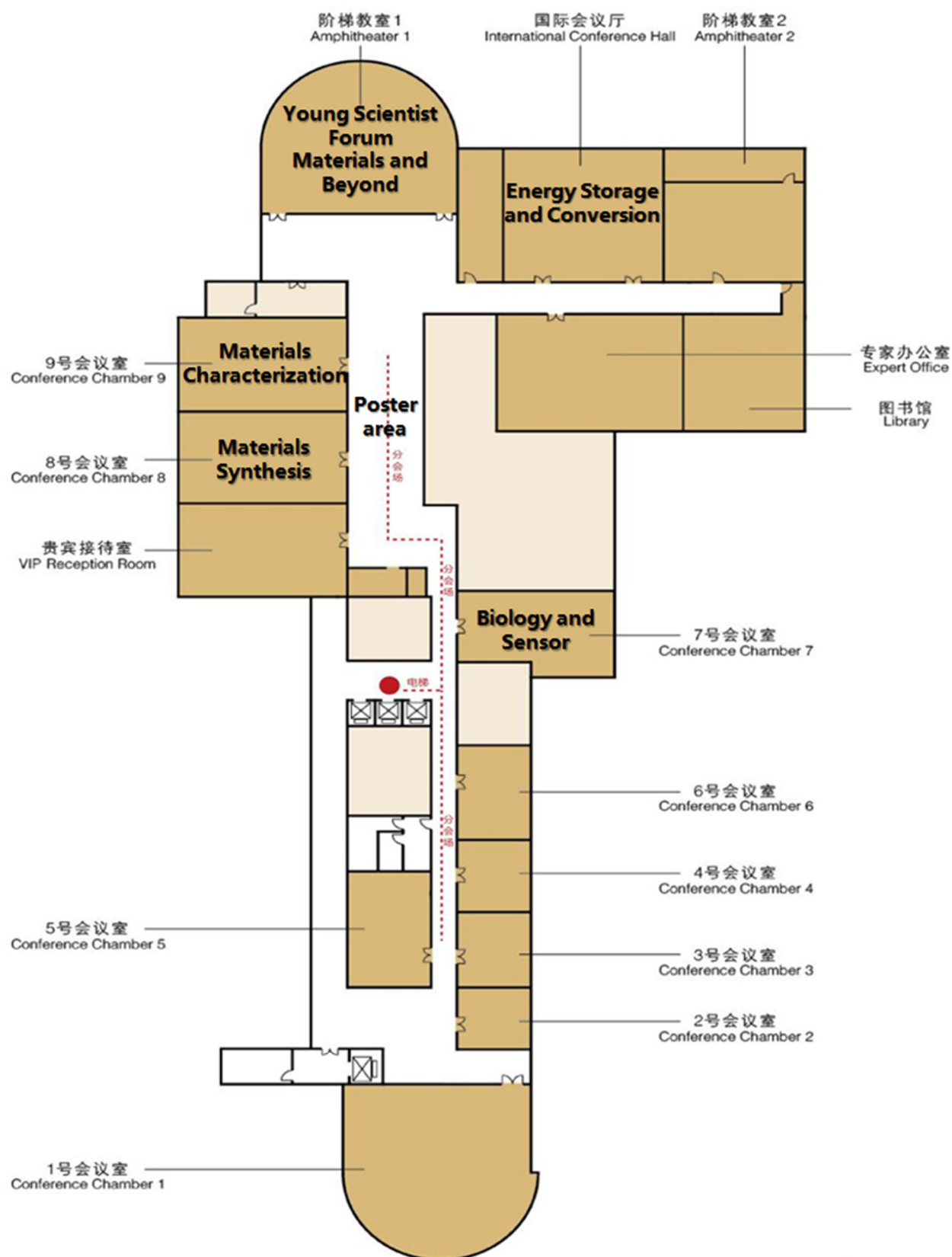


一楼平面图 1st Floor





二楼平面图 2nd Floor





会议记录

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会议记录

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Organization

International Mesostructured Materials Association

Dalian University of Technology