The General Assembly

Date： The Morning of July 14

Place： Main Venue（Meeting Room No. F308）

Time	Report ID	Title	Speaker	Institution	Chairpersons
08:30-8:50	Opening Ceremony				**Zhongmin Liu**
08:50-9:40	PL-1	Sustainable synthesis of zeolites	Feng-Shou Xiao	Zhejiang University	**Zhongmin Liu**
9:40-10:00	Coffee Break				
10:00-10:50	PL-2	Industrial perspective on zeolite catalysis: strategies to enhance catalytic performance	Zaiku Xie	SINOPEC	**Jihong Yu**
10:50-11:40	PL-3	Operando spectroscopy and microscopy of zeolite-based catalysts	Bert Weckhuysen	Utrecht University	**Svetlana Mintova**
11:40-13:30	Lunch				

Date： The Morning of July 17

Place： 1 Venue（F303）

Time	Report ID	Title	Speaker	Institution	Chairpersons
9:50-10:40	PL-4	Direct air capture of carbon dioxide with nanoporous materials	Christopher Jones	Georgia Institute of Technology	**Fernando Rey**
10:40-11:50	IZA General Assembly				**Svetlana Mintova**
11:50-13:30	Lunch				

Date： The Afternoon of July 18

Place： 1 Venue（F303）

Time	Report ID	Title	Speaker	Institution	Chairpersons
16:30-17:20	PL-5	Recent advances on CO_2 capture based on zeolites	Fernando Rey	UPV-CSIC	**Feng-Shou Xiao**
17:20-17:40	Closing Ceremony				
17:40-19:00	Dinner				

Breakout Sessions

Date： The Afternoon of July 14

Place： Main Venue（Meeting Room No. F308）

Time	Report ID	Title	Speaker	Institution
Chairpersons : **Bao-Lian Su Gloria Berlier**				
13:30-13:55	IL-1	New directions in catalysis of organic reactions with zeolites	Dirk De Vos	KU Leuven
13:55-14:15	OL-1	Hierarchically structured zeolite and their potential applications	Gopinathan Sankar	University College London
14:15-14:35	OL-2	Exploiting the singular properties of dendritic ZSM-5 zeolites as catalysts in reactions with accessibility limitations	María Del Mar Alonso-Doncel	IMDEA
14:35-14:55	OL-3	3D-zeolite cartridges based on metakaolin aiming efficient biogas upgrading	Adonay Loiola	Federal University of Ceara
14:55-15:15	OL-4	Preparation pathway of iron-containing small-pore zeolite (Fe-CHA): a promising catalyst for the selective catalytic reduction of nitric oxides	Wilhelm Schwieger	Friedrich-Alexander-University Erlangen-Nürnberg
15:15-15:35	OL-5	Microwave-assisted synthesis of hybrid zeolites for sustainable xylene production from renewable biomass	Anna Monsores	Instituto De QuÍMica/Ufrj/Lipcat
15:35-15:50	Coffee Break			
Chairpersons: **Dirk De Vos Gopinathan Sankar**				
15:50-16:10	OL-6	Mechanochemistry meets ZIFs: functionalization for co_2 capture	Natasa Zabukovec Logar	National Institute of Chemistry
16:10-16:45	KL-1	Pore science and engineering	Bao-Lian Su	Wuhan University of Technology/University of Namur
16:45-17:10	IL-2	Exploring SO_2 chemistry on cu-cha zeolites via spectroscopy and NH_3-SCR catalysis	Gloria Berlier	University of Turin
17:10-17:30	OL-7	Tuning the adsorption properties of aluminosilicate zeolites via post-synthetic organic functionalization	Changbum Jo	Inha University
17:30-17:50	OL-8	Rapid crystallization of zeolites with controllable defects: disentangling fluoride concentration and pH using NH_4F	Wei Fan	University of Massachusetts Amherst
17:50-19:00	Dinner			

Date： The Afternoon of July 14

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: Irina Ivanova **Chao Xu**				
13:30-13:50	OL-9	The impact of •OH radicals on FAU to MFI interzeolite conversion at different synthesis conditions and their identification	Elena Brozzi	KU Leuven
13:50-14:15	IL-3	Mobility of solvated Cu^+ cations in Cu-CHA predicted by machine learning accelerated molecular dynamics	Mercedes Boronat	UPV-CSIC
14:15-14:35	OL-10	Biosorbents: zeolite-algae composites - synthesis and properties	Eugeniusz Świstuń	AGH University of Krakow
14:35-14:55	OL-11	Fast synthesis of Zr-BEA using dry gel conversion	Anastasiia Dubtsova	Lomonosov Moscow State University
14:55-15:15	OL-12	Hydrothermal treatment on various silica sources toward preparing discrete zeolitic D_4R	Taiki Hayashi	The University of Tokyo

		units		
15:15-15:35	OL-13	Green ultra-fast Sn-BEA synthesis by the steam-assisted conversion method in a fluoride medium	Ivan Ermakov	Lomonosov Moscow State University
15:35-15:50	Coffee Break			
Chairpersons: **Mercedes Boronat Elena Brozzi**				
15:50-16:10	OL-14	From the unraveling zeolite BEA crystallization mechanisms towards the development of the advanced method of its synthesis and the design of active catalyst	Irina Ivanova	Lomonosov Moscow State University
16:10-16:30	OL-15	Green synthesis and engineering of MOF and COF materials	Chao Xu	Uppsala University
16:30-16:50	OL-16	Effect of acidity and mesoposity of faujasite and BEA zeolites on activity and selectivity of heavy oil hydrocracking	Mohammed Albahar	Saudi Aramco
16:50-17:10	OL-17	Transforming phosphate industry byproducts into multiatom-functional zeolites for advanced applications	Ayalew Hussen Assen	Mohammed VI Polytechnic University
17:10-17:20	SO-1	Upcycling rice husk for hierarchical ZSM-5 zeolites in glycerol-to-acrolein conversion	Xingxu Liu	University of Sydney
17:20-17:30	SO-2	Synthesis and catalytic applications of hierarchical Sn-MFI zeolite	Weihong Yan	Tsinghua University
17:30-17:40	SO-3	Ultrafast synthesis of TS-1 zeolite with tetracoordinated titanium species	Kai Jia	Tsinghua University
17:40-19:00	Dinner			

Date： The Afternoon of July 14

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Shuao Wang Fei-Jian Chen**				
13:30-13:50	OL-18	Optimized characteristics of zeolite-templated carbon: ZTC-JZO	Lindiane Bieseki	Labpemol/UFRN
13:50-14:10	OL-19	Unveiling the role of extra framework aluminum sites in modulating acidity of USY zeolite for (hydro)cracking reactions	Sohrab Askarli	King Abdullah University of Science and Technology
14:10-14:35	IL-4	Structure and flexibility in zeolites: a computational perspective	Robert Bell	University College London
14:35-14:55	OL-20	Transforming zeolite structure direction: metals with a dual role as amine coordinators and siloxy connectors	Juna Bae	KU Leuven
14:55-15:15	OL-21	Ultrasonic monitoring of zeolite and MOF syntheses	Martin Hartmann	Fau Erlangen-Nürnberg
15:15-15:35	OL-22	Finetuning the adsorption behavior of SSZ-13 by the addition of li during and after synthesis	Sven Robijns	Katholieke Universiteit Leuven
15:35-15:50	Coffee Break			
Chairpersons: **Robert Bell Martin Hartmann**				
15:50-16:25	KL-2	Radiation synthesis of crystalline porous materials	Shuao Wang	Soochow University
16:25-16:50	IL-5	Rational synthesis of 3D stable extra-large pore zeolites	Fei-Jian Chen	Jilin University
16:50-17:10	OL-23	Synthesis, characterization, and catalytic evaluation of CHA with varying Si/Al ratio	Bevan George	University of Cape Town
17:10-17:30	OL-24	2D zeolites as supports for effective stabilization of metal species	Michal Mazur	Charles University
17:30-17:40	SO-4	Synthesis of the two-dimensional AEI zeolite	Zixin Xiao	Tsinghua University
19:00-21:00	Dinner			

Date： The Afternoon of July 14

Place： 4 Venue （Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Wei Shi Ruxandra Chitac**				
13:30-13:50	OL-25	Optimizing the aluminum-nitrogen distance in ZSM-5 zeolites and its effect on the catalytic activity	Liang Zhao	Institute of Science Tokyo
13:50-14:10	OL-26	Real time tracking of Gallium oxides in MFI zeolites during pretreatment by operando approaches	Thomas Lemaitre	Universite de CAEN
14:10-14:30	OL-27	Fast and simple room-temperature synthesis of Zn_2BiM_4 for membrane application	David Magnus Wolf	Forschungszentrum Juelich
14:30-14:55	IL-6	Designed synthesis and functionalization of covalent organic frameworks	Qianrong Fang	Jilin University
14:55-15:15	OL-28	ZSM-11 zeolite synthesized via slow-released aluminum enhances acid site accessibility and prolongs catalyst lifetime in the MTO reaction	Junwei Wu	CNRS
15:15-15:35	OL-29	Zeolite composite prepared by quasi in-situ interzeolite conversion approach	Ruizhe Zhang	LCS
15:35-15:50	Coffee Break			
Chairpersons: **Liang Zhao Qianrong Fang**				
15:50-16:10	OL-30	Synthesis of offretite free of organic template for CO_2 capture	Risheng Wang	Universite Normandie
16:10-16:30	OL-31	From AI to Lab: synthesizing zeolites through generative Ai & Chemist-Driven organic structure directing agents (OSDAS) design	Ruxandra Chitac	Orbital Materials
16:30-16:50	OL-32	Optimization of metal loading for acidity on mesoporous catalysts	Thomas Doyle	University of Newcastle
16:50-17:10	OL-33	A new route to the solid-state synthesis of zeolite templated carbons	Alain Moissette	University of Lille
17:10-17:30	OL-34	The influence of aluminum distribution in Cu-Mor systems towards methane-to-methanol conversion: a combined experimental and theoretical study	Peter Ng'ang'a Gachanja Njoroge	University of Olso
17:30-17:40	SO-5	Structurally Engineering of Multi-Shell Hollow Zeolite Single Crystals	Guangrui Chen	Jilin University
17:40-19:00	Dinner			

Date： The Afternoon of July 14

Place： 5 Venue （Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Changbum Jo Qiang Zhang**				
13:30-13:50	OL-35	Adventurous interzeolite conversion of Mordenite to zinc-containing and high-silica Ferrierite zeolites: from intricate synthesis to sustainable CO_2 catalysis	Mostafa Torka Beydokhti	KU Leuven
13:50-14:10	OL-36	The impact of cation combinations on phase selection and framework composition in zeolites synthesized using hydrated silicate ionic liquids (HSILs)	Anjul Rais	KU Leuven
14:10-14:30	OL-37	Innovative templating agent for SAPO-34 nanosheets: a strategy to overcome diffusion limitations in catalytic processes	Catarina Marta	IC2MP
14:30-14:50	OL-38	Highlighting the micropore enlargement in hierarchical MOR zeolites	Isabelle Batonneau-	IC2MP

			Gener	
14:50-15:15	IL-7	Development of stable and regenerable Mo-zeolite catalysts for methane dehydroaromatization	Rajamani Gounder	Purdue University
15:15-15:35	OL-39	Bridging zeolite architectures for enhanced catalytic performance via partial interzeolite transformation	Javier GarcÍA-MartÍNez	University of Alicante
15:35-15:50	Coffee Break			
Chairpersons: Rajamani Gounder **Qihan Gong**				
15:50-16:10	OL-40	Effective in-situ synthesis of metal nanoparticles within zeolites via thiol-ammonum as structure-directing agents	Kangmin Lee	Inha University
16:10-16:30	OL-41	How acidic are interzeolitic transformation intermediates (ITIs) and their role in polymer degradation	Joaquin Martinez-Ortigosa	Alicante University
16:30-16:40	SO-6	Protozeolite-directed synthesis of efficient zeolite catalysts	Qiang Zhang	Jilin University
16:40-16:50	SO-7	Hierarchical porous Ni/Y catalyst with controllable acidity for efficient selective hydrocracking of naphthalene to BTX	Xiaoyang Kong	China University of Petroleum (Beijing)
16:50-17:00	SO-8	TS-1/FDU-12 micro-mesoporous composites by nano-assembly method for efficient hydrodesulfurization of dibenzothiophene	Dongze Li	China University of Petroleum (Beijing)
17:00-17:10	SO-9	Enhancing chemical yields in cycloalkane cracking through acid-base synergistic effect	Zhen Xu	Institute of Process Engineering, Chinese Academy of Sciences
17:10-17:20	SO-10	Insights into hexafluorophosphate salts facilitating the synthesis of aluminosilicate zeolites	Ningjing Tang	Institute of Process Engineering, Chinese Academy of Sciences
17:30-19:00	Dinner			

Date： The Afternoon of July 14

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Raj Kumar Das** **Dries Vandenabeele**				
13:30-13:50	OL-42	The potential relevance of n-hexane cracking in the characterization of composite zeolitic materials	Nourrdine Chaouati	Laboratoire De Catalyse Et Spectrochimie
13:50-14:10	OL-43	Solvent recovery in catalytic polyolefin cracking using shape selectivity of MFI-type zeolite	Naonobu Katada	Tottori University
14:10-14:30	OL-44	The effect of structure-directing agent added during the hydrothermal treatment of EMC-2 zeolite	Kotori Matsuo	Shizuoka University
14:30-14:50	OL-45	Enhancing hydro isomerization over a novel bifunctional Ni/*MRE catalyst	Xiujie Li	Dalian Institute of Chemical Physics, CAS
14:50-15:10	OL-46	Synthesis-structure-catalysis relations in small pore zeolites applied for selective catalytic reduction of NO_x	Nao Tsunoji	Hiroshima University
15:10-15:35	IL-8	Theoretical Insights into Alcohol Dehydration in Constrained Aqueous Microenvironment of Zeolites	Donghai Mei	Tiangong University
15:35-15:50	Coffee Break			
Chairpersons: **Donghai Mei** Nourrdine Chaouati				
15:50-16:10	OL-47	Development of unique class of one-dimensional 10-member ring intergrowth	Raj Kumar Das	Bharat Petroleum Corporation Ltd

		zeolite of small crystal size for generating high lube yield through hydro-isomerization of waxy feed		
16:10-16:30	OL-48	How water impacts zeolite crystallization in hydrated silicate ionic liquids	Dries Vandenabeele	KU Leuven
16:30-16:50	OL-49	Rapid disorder-to-order structural transformation and crystallinity enhancement in metal-organic frameworks	Chiaher Lin	National Tsing Hua University
16:50-17:00	SO-11	Recycling of lithium cobalt oxide, lithium manganese oxide batteries and pet to produce metal-organic frameworks for gas storage applications	Ibrahim Hassan	University of Nottingham Ningbo China
17:00-17:10	SO-12	Reticular synthesis of crystalline porous frameworks by highly connected building blocks	Fuxing Sun	Jilin University
17:10-17:20	SO-13	Cu-ZK-5 zeolite catalyst improved the skeleton structure by dealumination and silicon replacement	Yang Zhou	Tianjin University
17:20-17:30	SO-14	Ultrathin crystalline porous memebranes	Qi Liu	Soochow University
17:30-17:40	SO-15	Two-dimensional porous carbons via liquid-phase synthesis and functional applications	Sijia Wang	Dalian University of Technology
17:40-19:00	Dinner			

Date： The Morning of July 15

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Weibin Fan Jiuxing Jiang**				
8:30-8:55	IL-9	Understanding Xe and Kr adsorption in MOFs at the atomic level using solid-state NMR spectroscopy	Yining Huang	The University of Western Ontario
8:55-9:15	OL-50	Adapting polymer processing method to construct crystalline porous membrane	Zixi Kang	China University of Petroleum (East China)
9:15-9:25	SO-16	Complex shell Fe-ZnO derived from ZIF-8 as high-quality acetone mems sensor	Bing Shen	Shanghai University
9:25-9:35	SO-17	Lattice-Trapping Synthesis Enhances Fixation of As(V) in As@Zeolite P	Ning Feng	Ningxia University
9:35-9:55	Coffee Break			
Chairpersons: **Yining Huang Zixi Kang**				
9:55-10:30	KL-3	Selective hydrogenation of carbon dioxide to specific hydrocarbons via regulation of zeolite pore structure and acidity	Weibin Fan	Institute of Coal Chemistry, Chinese Academy of Sciences
10:30-10:55	IL-10	Pickering interfacial catalysis by zeolites with intrinsic amphiphilicity	Jiuxing Jiang	Sun Yat-Sen University
10:55-11:15	OL-51	Highly porous aromatic frameworks by trigonal prism building blocks for hydrogen and methane storage	Jiangtao Jia	Northeast Normal University
11:15-11:25	SO-18	Preparation of Ni-loaded porous carbon catalysts and their performance in hydrogen production by water electrolysis	Chunmei Zha	Xinjiang University
11:25-11:35	SO-19	External surface Al-rich ZSM-48 zeolite with highly efficient n-dodecane hydro isomerization activity	Wei Zhang	Taiyuan University of Technology
11:35-11:45	SO-20	Zeolite-modified alumina-bead catalyst for hierarchical cracking of bulky molecules	Fei Wang	Taiyuan University of Technology
11:45-13:30	Lunch			

Date： The Morning of July 15

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Valentin Valtchev　Wei Li**				
8:30-8:55	IL-11	Catalysis by zeolite-encaged single-sites	Landong Li	Nankai University
8:55-9:15	OL-52	Porous organic materials for the efficient and selective adsorption of pollutants	Baiyan Li	Nankai University
9:15-9:25	SO-21	Preparation of mesoporous silicon oxide from quartz sand and to investigate its corrosion resistance	Meihua Yang	Xinjiang University
9:25-9:35	SO-22	Unique Brønsted-acid center in deactivated titan silicates for efficient conversion of olefins	Fang Li	East China Normal University
9:35-9:55	Coffee Break			
Chairpersons: **Landong Li　Baiyan Li**				
9:55-10:15	OL-53	Tailored synthesis of ZSM-5 nanosheets with short *b*-Axis thickness	Jiaxing Zhang	Dalian University of Technology
10:15-10:50	KL-4	The mesoporous zeolites: A new frontier in zeolite science and technology	Valentin Valtchev	CNRS
10:50-11:15	IL-12	Monomicellar assembly to synthesize mesoporous materials	Wei Li	Fudan University
11:15-11:35	OL-54	Developing a universal new method for the green synthesis of zeolites	Zhe Ma	China University of Petroleum (East China)
11:35-11:45	SO-23	Regulation of metal-support interactions in Ni/Beta catalysts for enhanced hydro isomerization performance	Zhanbin Zhou	Liaoning Petrochemical University
11:45-13:30	Lunch			

Date： The Morning of July 15

Place： 3 Venue (Meeting Room No. F305)

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Svetlana Mintova　Alvaro Mayoral**				
8:30-8:55	IL-13	Zeolite-based catalysts for PNA and CH_4-SCR	Xiangju Meng	Zhejiang University
8:55-9:15	OL-55	Rational Synthesis of photochromic zeolites	Junbiao Wu	Northeastern University
9:15-9:35	OL-56	Synthesis of ZSM-5 zeolite from desiliconization solution of high-alumina fly ash and adsorption properties of Pb^{2+} in wastewater	Shuying Sun	East China University of Science and Technology
9:35-9:55	Coffee Break			
Chairpersons: **Xiangju Meng　Junbiao Wu**				
9:55-10:15	OL-57	Zeolite-encaged metal catalysts: synthesis and applications	Qiming Sun	Soochow University
10:15-10:35	OL-58	Preparation of alumina materials with exceptionally porous structure for catalysis and adsorption	Peng Bai	China University of Petroleum (East China)
10:35-11:10	KL-5	Uncovering the structural intricacies of zeolites: insights through TEM techniques	Alvaro Mayoral	CSIC-University of Zaragoza
11:10-11:35	IL-14	Defects and structural flexibility of zeolites through crystallization process control	Svetlana Mintova	CNRS, Normandy University Caen
11:35-13:30	Lunch			

Date： The Morning of July 15

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Cong-Yan Chen En-Hui Yuan**				
8:30-8:55	IL-15	Synthesis and functionalization of zeolites via (THERMO)mechanochemistry	Ana Palcic	Ruder Boskovic Institute
8:55-9:15	OL-59	Synthesis of organic-modified mesoporous silica with a self-template method and its application in dye adsorption	Chen Chen	Ningbo University
9:15-9:35	OL-60	Effects of residual alkali metals on the hydrothermal/thermal stability of silicalite-1	Chao Xiao	China Academy of Engineering Physics
9:35-9:55	Coffee Break			
Chairpersons: **Ana Palcic Chen Chen**				
9:55-10:15	OL-61	Ultrafast synthesis of the zeolites with the polyelectrolyte assisted pseudo-gelatinization (PAPG) method	En-Hui Yuan	Xi'an University of Science and Technology
10:15-10:35	OL-62	A stable zeolite with atomically ordered and interconnected mesopore channel	Peng Lu	Qingdao Institute of Bioenergy and Bioprocess Technology
10:35-10:55	OL-63	Controlled synthesis of nano-plate morphology SAPO-34 zeolites and its applications for enhancing light olefins selectivity	Kai Cai	SINOPEC
10:55-11:30	KL-6	Methods for producing aluminosilicate and pure-silica zeolites via post-synthetic treatments of borosilicate zeolites	Cong-Yan Chen	Chevron
11:30-13:30	Lunch			

Date： The Morning of July 15

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Nicholas Musyoka Dan Zhou**				
8:30-8:55	IL-16	Zeolites eco-friendly synthesis and scale up	Sibele Pergher	UFRN
8:55-9:15	OL-64	Etching assisted growth- a unified mechanism for mild etchant mediated zeolite synthesis?	Mei Hong	Peking University Shenzhen Graduate School
9:15-9:25	SO-24	Hierarchical porous carbon nanocages for efficient applications in oxygen reduction and Zn-Air batteries	Hao Liu	China University of Petroleum (East China)
9:25-9:35	SO-25	Three dimensionally-ordered macroporous Beta zeolite supported NiWS catalyst for selective hydrocracking of 1-methylnaphthalene to benzene, toluene and xylenes	Zunlong Hu	Shandong Institute of Petroleum and Chemical Technology
9:35-9:55	Coffee Break			
Chairpersons: **Sibele Pergher Mei Hong**				
9:55-10:15	OL-65	Synthesis, scale-up and shaping of MOFs produced from unconventional feedstocks	Nicholas Musyoka	University of Nottingham Ningbo China
10:15-10:35	OL-66	Controlled synthesis and catalytic application of hollownest-structured zeolites	Dan Zhou	Hubei University
10:35-10:55	OL-67	Multi-center luminescent metal-organic frameworks for sensing applications	Wei Shi	Nankai University
10:55-11:15	OL-68	Novel-ordered hierarchical ZSM-5 zeolite with interconnected macro-meso-microporosity for enhanced methanol to aromatics	Hongman Sun	China University of Petroleum (East China)

11:15-11:25	SO-26	Eco-friendly synthesis of MFI zeolite nanosheets with controllable aspect ratios and enhanced stability for benzene alkylation	Peng Zhu	Dalian University of Technology
11:25-11:35	SO-27	Visualizing the superiority of binder-free zeolite catalyst for the alkylation of benzene with ethylene	Duozheng Ma	Sinopec Shanghai Research Institute of Petrochemical Technology Co., LTD.
11:35-11:45	SO-28	Study on the synthesis of a FER/MFI mixed-crystal zeolite and its catalytic cracking performance	Xuanma Yi	SINOPEC
11:45-13:30	Lunch			

Date： The Morning of July 15

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Nataša Novak Tušar　Xiaofei Jing**				
8:30-8:55	IL-17	OXZEO catalysis in C1 chemistry	Xiulian Pan	Dalian Institute of Chemical Physics
8:55-9:15	OL-69	Defect engineered zeolites: dissolution, exploration and exploitation	Zhengxing Qin	China University of Petroleum
9:15-9:25	SO-29	Preparation and catalytic application of MOF-based heterojunctions	Zhengyang Liu	China University of Petroleum (East China)
9:25-9:35	SO-30	Synthesis research of ZSM-12 zeolite and its application in hydrogen isomerization	Yuge Shen	China University of Petroleum (Beijing)
9:35-9:55	Coffee Break			
Chairpersons: **Xiulian Pan　Zhengxing Qin**				
9:55-10:15	OL-70	Catalysis in The Confined Environments of Porous Frameworks	Xiaofei Jing	Northeast Normal University
10:15-10:35	OL-71	Innovative structure-activity analysis of Ni/ZSM-5 during vapor-phase hydrogenation of levulinic acid	Nataša Novak Tušar	National Institute of Chemistry
10:35-10:55	OL-72	Investigating the physicochemical properties of an extra-large pore aluminosilicate ZEO-1	Mohammad Fahda	Centre Nationale De La Recherche Scientifique CNRS
10:55-11:15	OL-73	Low-dimensional zeotypes templated by stacked benzimidazolium revealed by electron crystallography	Evgeniia Ikonnikova	Stockholm University
11:15-11:25	SO-31	A new controlled approach to synthesize of Fe_2O_3@NAA core-shell composites	Xuejiao Chen	China University of Petroleum (East China)
11:25-11:35	SO-32	Synthesis strategy and application of hierarchical MFI-type zeolites	Yuqing Ouyang	China University of Petroleum (East China)
11:35-11:45	SO-33	Mechanistic insights into P-Al interaction for enhancing hydrothermal stability of ZSM-5 modified by H_3PO_4 in catalytic cracking	Ne Ni	Research Institute of Petroleum Processing, Sinopec, Beijing
11:45-13:30	Lunch			

Date： The Afternoon of July 15

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Jihong Sun　Guangchao Li**				
13:30-13:50	OL-74	Nanoscale breathing mechanisms of metal-organic framework Ga-MIL-53 revealed by atomic force microscopy	Mollie Trueman	University of Manchester
13:50-14:10	OL-75	Imaging local structures and confined molecules in zeolites by low-dose TEM	Huiqiu Wang	Stockholm University

14:10-14:30	OL-76	Revealing the role of structure-directing agents in MOF synthesis using 3D electron diffraction	Yan Zheng	Stockholm University
14:30-14:50	OL-77	Optimization and understanding of mesoporous materials formation using NMR, SAXS, and physisorption methods	Abdu Bilican	Max-Planck-Institut FÜR Kohlenforschung
14:50-15:10	OL-78	In situ investigation of MOF materials under varying temperature and humidity	Benedikt Schrode	Anton Paar Gmbh
15:10-15:30	OL-79	In situ observation of the development of a zeolite-templated carbon through X-Ray powder diffraction	Alexander Sachse	IC2MP
15:30-15:50	Coffee Break			
Chairpersons: **Xiaoqin Zou Huiqiu Wang**				
15:50-16:15	IL-18	Multi-component mesoporous materials: synthesis, assembly and applications	Zhen-An Qiao	Jilin University
16:15-16:35	OL-80	Insights to active sites in zeolite	Guangchao Li	Hong Kong Polytechnic University
16:35-16:55	OL-81	Self-assemble performance and fractal evolution of the surfactant-assisted aluminosilicate species in the induced duration of the synthesized clinoptilolite	Jihong Sun	Beijing University of Technology
16:55-17:15	OL-82	Crystallization kinetics of ITH/ITR zeolite family explored through solid-state NMR spectroscopy	Teresa Blasco	UPV-CSIC
17:15-17:25	SO-34	Efficient Cs/TS-1 catalyst for methyl acetate and formaldehyde aldol condensation	Xinxin Peng	Sinopec Research Institute of Petroleum Processing
17:25-17:35	SO-35	Process intensified synthesis of zeolites with controlled morphology	Jing Shi	SINOPEC
17:35-17:45	SO-36	Heterogeneous parahydrogen induced-polarization on rh-containing silicalite-1 zeolite: effect of catalyst structure on signal enhancement	Weiyu Wang	CAS
17:45-19:00	Dinner			

Date： The Afternoon of July 15

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Junliang Sun Carlos Alexander Trujillo**				
13:30-13:50	OL-83	Exploring reversible Brønsted and Lewis acidity transformation associated with partially coordinated framework aluminum in zeolite catalyst	Teng Li	KAUST
13:50-14:10	OL-84	Alkali-silver ion exchange property of zeolite	Takuya Matsuda	Tottori University
14:10-14:30	OL-85	Differential impedance spectroscopy: a versatile method to study the kinetics of zeolite formation in ionic liquid precursor media	Nikolaus Doppelhammer	KU Leuven
14:30-14:50	OL-86	Facile differentiation of pore environments by solid state NMR	Marco Bengsch	Max-Planck-Institute FÜR Kohlenforschung
14:50-15:10	OL-87	Does the framework composition govern the ultrafast T-jump activation of methanol in SAPO-34? a fs MIR pump-probe study	Vincent De Waele	CNRS
15:10-15:30	OL-88	New insights into zeolite crystallization by combining electron microscopy and elemental mapping	Noemi Linares	University of Alicante
15:30-15:50	Coffee Break			

Chairpersons: **Teng Li** **Naonobu Katada**				
15:50-16:10	OL-89	Ammonia temperature programmed desorption under no re-adsorption conditions	Carlos Alexander Trujillo	Universidad Nacional De Colombia
16:10-16:35	IL-19	Structural detail analysis by 3D ED	Junliang Sun	Peking University
16:35-16:55	OL-90	New DFT insights into silicalite formation from layered H-magadiite	Heloise Pastore	University of Campinas
16:55-17:15	OL-91	Investigating the aluminum environments in zeolites	Malavika Manoj	University of St Andrews
17:15-17:25	SO-37	Tuning ZSM-5 properties via dielectric barrier discharge cold plasma	Ketao Shi	CAS
17:25-17:35	SO-38	In-situ atomic imaging of zeolites and adsorbed molecules under near-ambient pressure and high temperature	Hao Xiong	Tsinghua University
17:35-17:45	SO-39	The effect of metal-acid site synergy on the diffusion properties of Ni/ZSM-5 catalysts.	Jialin Wang	Liaoning Petrochemical University
17:45-19:00	Dinner			

Date： The Afternoon of July 15

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Arne Thomas** Nattawut Osakoo				
13:30-13:50	OL-92	^{29}Si NMR to probe ^{27}Al distribution in zeolites	Eddy Dib	CNRS
13:50-14:10	OL-93	A high-resolution solid-state NMR perspective on Cu-mobility and hydrothermal aging of Cu zeolites	Eric Breynaert	KU Leuven
14:10-14:30	OL-94	Applications of low-dose iDPC-STEM imaging on porous materials	Boyuan Shen	Soochow University
14:30-14:50	OL-95	Precisely quantifying Al pairs in zeolites	Kuizhi Chen	Dalian Institute of Chemical Physics
14:50-15:10	OL-96	Distinguishing Descriptor and Spectator Organic Reaction Intermediates in Zeolite Catalysis	Abhishek Dutta Chowdhury	Wuhan University
15:10-15:30	OL-97	Atomic-level electron microscopy studies of zeolite structures	Yanhang Ma	Shanghaitech University
15:30-15:50	Coffee Break			
Chairpersons: **Eddy Dib** **Eric Breynaert**				
15:50-16:10	OL-98	Mesoporous SBA-15-supported cobalt catalysts: The role of Co/Co_2SiO_4 ratios in performance of reverse water gas shift reaction	Nattawut Osakoo	Suranaree University of Technology
16:10-16:30	OL-99	Production of bio-jet fuel precursors through aldol condensation of furfural and cyclopentanone using ZSM-5 zeolites modified with metal oxides with enhanced accessibility	Jennifer Cueto	Imdea Energy Institute
16:30-16:55	IL-20	Organic zeolites	Arne Thomas	Technische Universität Berlin
16:55-17:15	OL-100	Innovative sorbent regeneration in air-water harvesting using MWCNT-Driven electrothermal heating	Haonuan Zhao	Laboratoire Catalyse Et Spectrochimie
17:15-17:35	OL-101	Sn-silicate zeolites in the conversion of glucose into methyl lactate and lactic acid: influence of zeolite type, acidity, porosity and morphology	Nataliya Shcherban	National Academy of Sciences of Ukraine
17:35-17:45	SO-40	Using fluorescence microscopy to explore the mass transfer and diffusion performance of different-sized FCC catalysts	Lei Yu	Liaoning Petrochemical University
17:45-19:00	Dinner			

Date： The Afternoon of July 15

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Paul Wright** Xin Deng				
13:30-13:55	IL-21	Synthesis regulation of MOR zeolite catalysts for dimethyl ether carbonylation	Peng Tian	Dalian Institute of Chemical Physics
13:55-14:15	OL-102	Realizing direct and continuous oxidation of methane to olefins by cascading transition-metal-free zeolites	Peipei Xiao	Institute of Science Tokyo
14:15-14:35	OL-103	Design of metal-organic frameworks for efficient photocatalytic H_2O_2 production	Hiromi Yamashita	The University of Osaka
14:35-14:55	OL-104	Development of calcined Mg-Al hydrotalcite-coated ZSM-5 catalysts for optimization of glucose conversion to 5-hydroxymethylfurfural	Kentaro Kimura	Institute of Science Tokyo
14:55-15:15	OL-105	Zeolite-templated carbon metal-supported catalysts for heterogeneous reactions	Petr Sazama	Institute of Physical Chemistry of the CAS
15:15-15:35	OL-106	Selective production of chemicals from bio-oil using lamellar MWW zeolite with Mo and Ru oxide pillars	Evgeny Naranov	Institute of Petrochemical Synthesis
15:35-15:50	Coffee Break			
Chairpersons: **Peng Tian Peipei Xiao**				
15:50-16:10	OL-107	Selective hydrogenation of acetylene towards ethylene over single-site Ni@zeolite	Xin Deng	Georgia Institute of Technology
16:10-16:30	OL-108	Direct conversion of CO_2 to aromatics over ordered mesoporous iron-incorporated ZSM-5 tandem catalyst	Jong Wook Bae	Sungkyunkwan University
16:30-16:55	IL-22	Co-templating and reactive templating in the synthesis of small pore zeolites	Paul Wright	University of St Andrews
16:55-17:05	SO-41	Identification of isolated metal active centers in beta zeolite framework and the reaction mechanism for propane dehydrogenation	Zhiqiang Qiu	Dalian Institute of Chemical Physics
17:05-17:15	SO-42	Revealing Brønsted acidic nature of penta-coordinated aluminum in dealuminated zeolite	Mingji Zheng	Innovation Academy for Precision Measurement Science and Technology
17:15-17:25	SO-43	Trace EU prompt the low temperature activity and stability of the Cu/SAPO-34	Boyuan Chen	Hei Longjiang University
17:25-17:35	SO-44	Dissociation of zeolitic acid site in water for deconstruction of polymers	Yue Liu	East China Normal University
17:35-17:45	SO-45	ZSM-5 zeolite catalyzed C-C bond cleavage: different behavior for light-hydrocarbon and polyolefin feedstocks	Bo Peng	Sinopec Research Institute of Petroleum Processing Co., LTD.
17:45-19:00	Dinner			

Date： The Afternoon of July 15

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: Dongxia Liu Gwlherm Nenert				
13:30-14:05	KL-7	Transforming CO_2 into sustainable aviation fuel through tandem catalysis	Fei Wei	Tsinghua University
14:05-14:30	IL-23	Synthesis of new zeolites with large porosity and stable frameworks	Peng Wu	East China Normal University
14:30-14:50	OL-109	Zeolite encaged metal-ZnO composite for the reduction of carbon dioxide in liquid phase	Ali Abdel-Mageed	Leibniz Institute for Catalysis (LIKAT)
14:50-15:10	OL-110	Highly efficient synthesis of liquefied petroleum gas (LPG) from CO_2 hydrogenation	Miao Yu	University At Buffalo

		in a Na^+-gated membrane reactor		
15:10-15:30	OL-111	Revealing cooperative role of non-thermal plasma and ZSM-5 supported copper-zinc catalysts in the hydrogenation of CO_2 to methanol	Shanshan Xu	The University of Manchester
15:30-15:50	Coffee Break			
Chairpersons: **Fei Wei Peng Wu**				
15:50-16:10	OL-112	Two-Dimensional (2D) MXene Supported Catalysts for Plastic Waste Hydrogenolysis	Dongxia Liu	University of Delaware
16:10-16:30	OL-113	In-situ investigation of water harvesting by CAU-10-OH metal organic frameworks: a 2-steps process	Gwlherm Nenert	Malvern Panalytical B. V.
16:30-16:50	OL-114	Hierarchical Zr-, Al-BEA zeolites in the catalytic transformation of levulinic acid and C6-carbohydrates to γ-valerolactone	Roman Barakov	Lomonosov Moscow State University
16:50-17:00	SO-46	Design and Synthesis of Ni/Beta Bifunctional Catalyst for Light Alkanes Hydroisomerization	Ye Yang	Liaoning Petrochemical University
17:00-17:10	SO-47	Preparation of Ge/HZSM-5 zeolite and its catalytic performance for n-hexane cracking	Youbing Zhu	Chinese Academy of Sciences
17:10-17:20	SO-48	One-step synthesis of Cu-based zeolite for NOx abatement in diesel vehicle exhaust	Jinpeng Du	Research Center for Eco-Environmental Sciences
17:20-17:30	SO-49	Dynamic change of metal nanoparticles on zeolite for periodic catalysis	Liang Wang	Zhejiang University
17:30-19:00	Dinner			

Date： The Afternoon of July 15

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Christian Serre Jun Xu**				
13:30-13:50	OL-115	Elucidation of the structure–activity relationship for cu-erionite in the direct conversion of methane to methanol through operando XAS study	Jie Zhu	The University of Tokyo
13:50-14:10	OL-116	Amines alter selectivity of Lewis acid zeolite catalyzed hydrogen transfer reactions	Jan Prech	Faculty of Science, Charles University
14:10-14:30	OL-117	The role of oxygen mobility on palladium catalyst performance for lean methane combustion under humid gas streams	Matthew Bligh	University of Newcatsle
14:30-15:05	KL-8	Controlling selectivity patterns in MTH and related processes	Jorge Gascon	King Abdullah University of Science and Technology
15:05-15:30	IL-24	Electron crystallography reveals the structures of nanoporous materials and the role of OSDAs in zeolite and MOF synthesis	Tom Willhammar	Stockholm University
15:30-15:50	Coffee Break			
Chairpersons: **Tom Willhammar Jorge Gascon**				
15:50-16:10	OL-118	Steamed AEI zeolites for enhanced light olefin selectivity in tandem carbon dioxide conversion to light olefins: Role of zeolite acidity	Ahmed Sajid	KU Leuven
16:10-16:30	OL-119	Improved selectivity toward light olefins in low-density polyethylene cracking over Lewis acidic Sn-Beta zeolites	Koji Miyake	Osaka University
16:30-17:05	KL-9	Metal organic frameworks for indoor air quality	Christian Serre	CNRS - PSL University
17:05-17:30	IL-25	Solid-state NMR and MRI insights into water's	Jun Xu	Innovation Academy for

		role in zeolite catalysis		Precision Measurement Science and Technology, CAS
17:30-19:00	Dinner			

Date： The Morning of July 16

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Jonathan Mauß Guillaume Maurin**				
8:30-8:50	OL-120	Optimizing vanadium-impregnated small pore zeolite catalysts for propane dehydrogenation: a synthesis-structure-activity study	Jose Mendoza	KU Leuven
8:50-9:10	OL-121	Optimize the activity and stability of zeolite-encapsulated Pt clusters for propane dehydrogenation	Xiaomai Chen	Technische Universität München Tum
9:10-9:20	SO-50	Highly efficient Ni@MFI catalyst for CO_2 hydrogenation to methane	Sen Wang	Institute of Coal Chemistry, Chinese Academy of Sciences
9:20-9:30	SO-51	Propane dehydroaromatization on Ga-modified HZSM-5 catalyst: Bronsted/Lewis acid synergic effect	Hui Zhang	Taiyuan University of Technology
9:30-9:50	Coffee Break			
Chairpersons: **Jose Mendoza Sen Wang**				
9:50-10:10	OL-122	Porous network supported ionic liquid phases (SILP) for the selective hydrogenation of concentrated acetylene streams	Jonathan Mauß	Max-Planck-Institut FÜR Kohlenforschung
10:10-10:35	IL-26	Machine-learning potentials for modelling MOFs	Guillaume Maurin	University Montpellier
10:35-10:55	OL-123	Development and application of Ti/Zr-USY containing hydrocracking catalysts in Aramco refineries	Guanghui Zhu	Saudi Aramco
10:55-11:15	OL-124	Stable CO_2 hydrogenation to methanol by Cu interacting with isolated Zn cations in zincosilicate CIT-6	Yu Gao	Eindhoven University of Technology
11:15-11:25	SO-52	Effectively established electron-rich NiMoS atomic wafer and investigated its effect on hydrodesulfurization performance	Wenwu Zhou	Xi'an University of Science and Technology
11:25-11:35	SO-53	Kinetic evidence on different mechanisms of C-C, C-H bond cleavage in alkane activation over ZSM-5 zeolite	Rongxin Zhang	Sinopec Research Institute of Petroleum Processing Co., LTD
11:35-11:45	SO-54	The Effect of Ni-based catalysts supported on MCM-41 with different Si/Al ratios on hydrogenation of N-ethylcarbazole	Huijie Wei	China University of Petroleum (East China)
11:45-13:30	Lunch			

Date：The Morning of July 16

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Toru Wakihara Guangrui Chen**				
8:30-8:50	OL-125	One-step hydrodeoxygenation-hydroisomerization of methyl palmitate over nickel phosphide on SAPO-11	Ivan Shamanaev	Boreskov Institute of Catalysis
8:50-9:10	OL-126	Electro-assisted zeolite synthesis: key ingredients for success in stannosilicate chemistry	Gleb Ivanushkin	KU Leuven

9:10-9:20	SO-55	Modulating the steric hindrance around encapsulated Rh single atoms for regioselective hydroformylation	Cun Liu	Dalian Institute of Chemical Physics
9:20-9:30	SO-56	Preparation of liquid alternative fuel by catalytic conversion of biomass and derivatives	Jiaomei Liu	Beihang University
9:30-9:50	Coffee Break			
Chairpersons: **Ivan Shamanaev Gleb Ivanushkin**				
9:50-10:10	OL-127	Pathways of C_3-C_4 alkane activation and transformation on in-modified zeolite beta revealed by ^{1}H and ^{13}C MAS NMR spectroscopy	Anton Gabrienko	Boreskov Institute of Catalysis
10:10-10:45	KL-10	Tracking sub-nano-scale structural evolution in zeolite synthesis	Toru Wakihara	The University of Tokyo
10:45-11:10	IL-27	Construction of materials and devices for metal-air batteries	Ji-Jing Xu	Jilin University
11:10-11:20	SO-57	Modulating isomers distribution of n-dodecane hydroisomerization by Mordenite-ZSM-22 composite zeolite	Jiangnan Xiang	Tai Yuan University of Technology
11:20-11:30	SO-58	Bi-reforming of methane to syngas over Ru nano-catalysts supported/confined on S-1 zeolite	Jiawei Zhong	South China Agricultural University
11:30-11:40	SO-59	The Co-based NaZSM-5 zeolite catalyst for the one-step hydrogenation of furfuryl alcohol to 1,5-pentanediol	Dandan Liu	China University of Petroleum (East China)
11:40-13:30	Lunch			

Date： The Morning of July 16

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Shuran Liu Nikolay Kosinov**				
8:30-8:50	OL-128	Synthesis and characterization of hierarchical ZSM-5@NiCoAl layered double hydroxide nanocomposites for ethane production from CO_2	Warot Prasanseang	Vidyasirimedhi Institute of Science and Technology
8:50-9:10	OL-129	Valorisation of greenhouse and acid gas by low-silica zeolite catalyst	Syeda Rabia Batool	LCS, CNRS-Ensicaen-Unicaen
9:10-9:30	OL-130	Exploring phosphorylated zeolite for enhanced catalyst stability in CO_2 to ethanol	Gordon Zhuo	Technical University of Denmark
9:30-9:50	Coffee Break			
Chairpersons: Warot Prasanseang Syeda Rabia Batool				
9:50-10:10	OL-131	Operando IR and in situ XAFS-DRIFTS studies on selective catalytic reduction of N_2O by CH_4 in NO- and NH_3-containing atmospheres	Shuran Liu	The University of Tokyo
10:10-10:30	OL-132	Controlling the selectivity and stability of ZSM-5 catalysts in methanol-to-hydrocarbons reaction	Nikolay Kosinov	Eindhoven University of Technology
10:30-10:50	OL-133	Spectroscopic investigation of the role of water in copper zeolite methane oxidation	Dieter Plessers	KU Leuven
10:50-11:10	OL-134	Zeolite-catalyzed biomass valorization to produce chemicals: an imperative future direction	Saravanamurugan Shunmugavel	Center of Innovative and Applied Bioprocessing
11:10-11:30	OL-135	Brønsted acid-site density controls the mechanistic cycle and product selectivity in the methanol-to-hydrocarbons reaction in BEA zeolite	Juan Carlos Navarro	King Abdullah University of Science and Technology

11:30-11:40	SO-60	Strong d-p orbital hybridization of cobalt porphyrin cages promotes electrochemical nitrate reduction to ammonia	You Wu	Harbin Institute of Technology
11:40-13:30	Lunch			

Date： The Morning of July 16

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Shao-Jie Li Zhou-Jun Wang**				
8:30-8:50	OL-136	Optimizing the conversion of DME to C_3 and C_4 paraffins over Pd/Beta	Candace Eslick	University of Cape Town
8:50-9:10	OL-137	Monolithic zeolite for methanol-to-olefins conversion	Lik Hong Wee	University of Cambridge
9:10-9:20	SO-61	Designing zeolite pore structures for enhanced catalytic hydrogenation of CO_2	Jiaqi Yang	University of Nottingham, Ningbo, China
9:20-9:30	SO-62	Gangue-based Cu/SSZ-13 zeolites with controllable Al distribution as robust selective catalytic reduction (SCR) catalysts	Tongrui Liu	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
9:30-9:50	Coffee Break			
Chairpersons: **Candace Eslick Lik Hong Wee**				
9:50-10:10	OL-138	Eliminating organic template of nanocrystalline silicalite-1 zeolite with ozone at low temperature to promote low-concentration methane combustion over Pd/Silicalite-1	Shao-Jie Li	Jilin University
10:10-10:30	OL-139	Interface tailoring and photo-thermo coupling on catalysts for CO_2 hydrogenation	Zhou-Jun Wang	Ningxia University/Beijing University of Chemical Technology
10:30-10:50	OL-140	Stabilizing high loading and uniform Ni nanoparticles over silicalite-1 for methane dry reforming	Lei He	Dalian University of Technology
10:50-11:10	OL-141	Selective oxidation of hydrocarbons catalyzed by metal-confined zeolites	Weijie Li	Nankai University
11:10-11:20	SO-63	$CuZnO_x$ active sites anchored on the silanols of hollow silicalite-1 zeolite enhance CO_2 hydrogenation to methanol	Xianglong Meng	China University of Petroleum (East China)
11:20-11:30	SO-64	Anatase-reinforced PtZn@Silicalite-1 structured catalysts boosting propane dehydrogenation	Liming Xia	Tianjin University
11:30-11:40	SO-65	CO_2-enhanced aromatization of propane over acidic zeolites: new insights into carbon utilization	Shaowen Hao	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
11:40-13:30	Lunch			

Date： The Morning of July 16

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Emiel Hensen Jingxiu Xie**				
8:30-8:50	OL-142	Ketonization of carboxylic acids on heteroatom zeolites	Xinli Zhu	Tianjin University
8:50-9:10	OL-143	Boosted photocatalytic degradation of	Huabing	Panzhihua University

		tetracycline hydrochloride over Ce-doped Bi_2WO_6 visible light catalyst by synergistic effect between oxygen vacancy and H_2O_2	Zhang	
9:10-9:30	OL-144	Designing carbon supported metal nanocatalysts using the d charge descriptor	Yafei Sun	University of Shanghai for Science and Technology
9:30-9:50	Coffee Break			
Chairpersons: **Ping She Xinli Zhu**				
9:50-10:10	OL-145	Zeolite materials for biomass conversion to value-added chemicals	Yuanshuai Liu	Chinese Academy of Sciences
10:10-10:30	OL-146	Metallosilicates-confined Pt subnanometric clusters or single atom for propane dehydrogenation	Yue Ma	East China Normal University
10:30-11:05	KL-11	Zeolite catalysis for a sustainable chemical industry	Emiel Hensen	Technische Universiteit Eindhoven
11:05-11:30	IL-28	Zeolite catalysts for production of aromatics from plastic waste	Jingxiu Xie	University of Groningen
11:30-11:40	SO-66	Selective methanol-to-ethylene conversion using anisole as an intermediate	Jie Fan	Zhejiang University.
11:40-13:30	Lunch			

Date： The Morning of July 16

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Jiancong Liu Yanfei Zhang**				
8:30-8:50	OL-147	N_2O catalytic decomposition form catalyst development to industrial applications	Ruinian Xu	Beijing University of Technology
8:50-9:10	OL-148	Rational design of supported metal catalyst for hydrogenation of strongly-coordinated molecules	Hai Wang	Zhejiang University
9:10-9:30	OL-149	Selective hydrogenolysis of glycerol toward 1-propanol and 1,2-propanediol via tuning the reduction temperature of (Mn)/Pt/WO_x catalysts	Yujing Weng	Henan Polytechnic University
9:30-9:50	Coffee Break			
Chairpersons: **Ruinian Xu Hai Wang**				
9:50-10:10	OL-150	Zeolite nanoconfined small-sized nickel-molybdenum sulfide catalysts for efficient deep hydrodesulfurization	Jiancong Liu	Heilongjiang University
10:10-10:30	OL-151	Isolated Lewis acid sites grafted in silanol nests of dealuminated beta zeolite for ethanol-acetaldehyde conversion to 1,3-butadiene	Yanfei Zhang	Dalian Maritime University
10:30-10:50	OL-152	Engineering the titanosilicate zeolites for direct photothermal alkene epoxidation with oxygen	Qiudi Yue	Xi'an Jiaotong University
10:50-11:10	OL-153	Zeolite-confined site proximity for hydrodeoxygenation of biomass-derived platform molecules	Wenhao Luo	Inner Mongolia University
11:10-11:30	OL-154	Methanol-to-olefin: dynamic autocatalysis reaction network and multiscale cross-talk of reaction—diffusion—coke	Shanfan Lin	Dalian Institute of Chemical Physics Chinese Academy of Sciences
11:30-11:40	SO-67	Boosting catalytic performance for selective oxidation of glycerol on a low-Pt-content Pt-In/Sn-MFI catalyst	Haodong Xie	China University of Petroleum-Beijing
11:40-13:30	Lunch			

Date： The Morning of July 17

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Massimo Bocus**				
8:30-8:50	OL-155	Enhancing the acid strength of zeolite for dimethyl ether carbonylation	Shouying Huang	Tianjin University
8:50-9:10	OL-156	Zeolitic Ti sites confined atomically PdO cluseters for efficient low temperature methane combustion	Honggen Peng	Nanchang University
9:10-9:30	OL-157	The acidic sites in the opened sodalite cages of zeolite H-FAU catalysed the carbonylation of dimethoxymethane	Youming Ni	Dalian Institute of Chemical Physics, CAS
9:30-9:50	Coffee Break			

Date： The Morning of July 17

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Gang Feng**				
8:30-8:50	OL-158	Light alcohols-to-ether transformation: the impact of zeolite channel system on the simultaneous conversion of methanol and ethanol	Girolamo Giordano	University of Calabria
8:50-9:10	OL-159	Research progress of green diesel hydroconversion for production of bio-jet fuel	Chao Mu	Tianjin University
9:10-9:30	OL-160	The preparation of zeolite based bifunctional catalysts for the n-alkane hydroisomerization	Wei Wang	Heilongjiang University
9:30-9:50	Coffee Break			

Date： The Morning of July 17

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Francesco Colombo**				
8:30-8:50	OL-161	Bridging simulation and reality: in silico-designed porous materials for sustainable energy and environment	Sofia Calero	Eindhoven University of Technology
8:50-9:10	OL-162	Fabrication of w- containing zeolite membranes with improved hydrophobicity for CO_2 separation	Li Peng	Nanjing Tech University
9:10-9:30	OL-163	Comparison of different mechanisms for catalytic dry reforming of methane using opensmoke: a simulation study	Ahmad Abiso	University of Nottingham Ningbo China
9:30-9:50	Coffee Break			

Date： The Morning of July 17

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Malin Li**				
8:30-8:50	OL-164	Recent theoretical development in py-chemshell for calculating vibrational signatures of chemical active species in zeolite catalysts	Jingcheng Guan	University College London
8:50-9:10	OL-165	Why some silica zeolites have not been synthesized as aluminosilicate?	German Sastre	CSIC-UPV

9:10-9:20	SO-68	Selective transformation of chloromethane and CO/CO_2 catalyzed by zeolites	Xudong Fang	Dalian Institute of Chemical Physics, CAS
9:20-9:30	SO-69	Influence of molecular conformation on diffusion of n-heptane in MFI zeolites	Mingyu Hou	Liaoning Petrochemical University
9:30-9:50	Coffee Break			

Date： The Morning of July 17

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Yujie Ban**				
8:30-8:50	OL-166	Zeolite crystallization in the highly alkaline system revisited by machine learning	Xiaobo Yang	Vitalite Aps
8:50-9:10	OL-167	Rapid synthesis of Cu-SSZ-13 zeolites and the regulation mechanism of rare earth metal ions on their NH3-SCR performance	Mengyang Chen	Taizhou University
9:10-9:30	OL-168	Localization of cations and water molecules in Y and X FAU zeolites: Monte Carlo simulations combined with 3D ED experiments	Irena Deroche	The Mulhouse Materials Science Institute (IS2M)
9:30-9:50	Coffee Break			

Date： The morning of July 17

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Marco Fabbiani**				
8:30-8:50	OL-169	Interactions of carbon dioxide with metal-exchanged faujasite in presence of water – combined computational and experimental study	Georgi Vayssilov	University of Sofia
8:50-9:10	OL-170	Machine learning-driven insights into aluminum siting and dynamics in zeolites	Chen Lei	Charles University
9:10-9:30	OL-171	Understanding aromatic transport in zeolites: bridging quantum mechanical precision with machine learning efficiency	Jenna Mancuso	Ghent University
9:30-9:50	Coffee Break			

Date： The Afternoon of July 17

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Ye Wang　Anmin Zheng**				
13:30-13:55	IL-29	On the role of flexibility for adsorptive separation	Jie-Peng Zhang	Sun Yat-Sen University
13:55-14:15	OL-172	Machine learning-assisted decoding of light olefin transport in cage-based zeolites	Pieter Cnudde	Ghent University
14:15-14:35	OL-173	Quantitatively predicting the adsorption isotherm of water in H-ZSM-5 using reactive machine learning potentials	Massimo Bocus	Ghent University
14:35-14:55	OL-174	Catalytic kinetics in nanoconfined space of acidic micro/mesoporous materials	Dmitry Murzin	Åbo Akademi University
14:55-15:15	OL-175	A new formaldehyde-based first carbon-carbon bond formation mechanism of zeolite catalyzed methanol to hydrocarbons	Wei Chen	Ghent University
15:15-15:35	OL-176	Computational investigation of copper exchanged zeolites (ZSM5, CHA AND MOR) activation by molecular oxygen for methane	Emmanuel Peter	Imt Mines/Insa Toulouse

		hydroxylation to methanol		
15:35-15:50	Coffee Break			
Chairpersons: **Jie-Peng Zhang Pieter Cnudde**				
15:50-16:10	OL-177	Deciphering the dealumination of faujasite zeolite at the atomic scale	Gerhard Pirngruber	IFP Energies Nouvelles
16:10-16:45	KL-12	Zeolites for catalytic transformations of C_1 molecules into C_2 oxygenates	Ye Wang	Xiamen University, China
16:45-17:10	IL-30	Confinement driven dimethyl ether carbonylation in mordenite zeolite	Anmin Zheng	Wuhan University of Science and Technology
17:10-17:20	SO-70	Theoretical analysis of rare earth ion placement in Rey zeolite	Minghui Shen	Liaoning Petrochemical University
17:20-17:30	SO-71	Investigating the diffusion behaviors in mesoporous zeolites via NASCA microscopy	Zhenyuan Zhao	Tsinghua University
17:30-17:40	SO-72	The preparation of Cu-doped manganese desulfurizer and its application in hydrogen purification	Jinyu Zheng	Sinopec Research Institute of Petroleum Processing
17:40-19:00	Dinner			

Date： The Afternoon of July 17

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Tao Cheng** Tomasz Bajda				
13:30-13:50	OL-178	The effect of perfluoroalkyl chain length and the type of acid group on PFAS adsorption from water	Mengru Zhang	University College London
13:50-14:15	IL-31	Multifunctional catalysts based on hierarchical zeolites for catalytic biorefinery	Xiaolei Fan	The University of Manchester
14:15-14:35	OL-179	Theoretical insights into the ammonia and hydrogen-induced structural evolution of Pt clusters in mordenite	Gang Feng	Nantong University
14:35-14:55	OL-180	Catalytic conversions of glucose within acidic zeolites: comprehensive mechanisms, regioselectivity and confinement effects	Gang Yang	Southwest University
14:55-15:15	OL-181	Data mining and machine-learning assisted discovery of methanol to olefins zeolite catalysts with high performance	Miao Yang	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
15:15-15:35	OL-182	Zeolite Catalysis and Carbon Chain Regulation	Yuchao Chai	Nankai University
15:35-15:50	Coffee Break			
Chairpersons: **Xiaolei Fan Mengru Zhang**				
15:50-16:10	OL-183	Nanoscale reactions of condensed matter in zeolites	Tao Cheng	Soochow University
16:10-16:30	OL-184	Application of diffraction and spectroscopic methods to identify sorption mechanisms of anionic forms of metals and metalloids on organo-zeolites	Tomasz Bajda	AGH University of Krakow
16:30-16:50	OL-185	Roles of cation positions in LTA zeolite for methane storage	Cecile Grimaud	CNRS
16:50-17:10	OL-186	Evaluating CO_2 and toluene capture efficiency of zeolite 13X under realistic conditions	Lisa Mingzhe Sun	Surface Measurement Systems
17:10-17:20	SO-73	Preparation of hydrophobic zeolite composites and their adsorption performance for humid VOCs	Shuangchun Lu	Inner Mongolia University
17:20-17:30	SO-74	Mo-doped nanosized zeolites with a lower density of hydroxyl defects for enhanced VOCs adsorption	Zhihan Zhang	China University of Petroleum

17:30-17:40	SO-75	The matching relationship between pore channels of zeolites and adsorbent structure during adsorption and diffusion	Qiang Li	Liaoning Petrochemical University
17:40-19:00	Dinner			

Date： The Afternoon of July 17

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Minkee Choi Toshiyuki Yokoi**				
13:30-13:50	OL-187	Gaseous iodine in MOF Materials: adsorption and desorption followed by μ-Raman imaging	Matthieu Hureau	University De Lille
13:50-14:10	OL-188	Zeolite cation exchange property for the recovery of critical raw materials: first insights and application on real solutions	Francesco Colombo	University of Modena and Reggio Emilia
14:10-14:35	IL-32	Size-inverse sieving for Xe/Kr separation via molecular trapdoor effect in LTA zeolites	Jin Shang	City University of Hong Kong
14:35-14:55	OL-189	Gas separation on ZSM-25 zeolite	Gang Kevin Li	The University of Melbourne
14:55-15:15	OL-190	Optimized nanosized zeolite P for faster CO_2 adsorption kinetics	Jaouad Al Atrach	Laboratory of Catalysis and Spectrochemistry (LCS) Ensi Caen
15:15-15:35	OL-191	Understanding the adsorption and diffusion of lignin derivatives in zeolite catalysts: neutron spectroscopy and computational studies	Alexander O'malley	University of Bath
15:35-15:50	Coffee Break			
Chairpersons: Matthieu Hureau **Jin Shang**				
15:50-16:25	KL-13	Replacing HCl with hierarchical zeolite catalysts in the production of polyurethane intermediates	Minkee Choi	Institute of Science and Technology
16:25-16:50	IL-33	Diversification of CON-type zeolite and its catalytic application	Toshiyuki Yokoi	Institute of Science Tokyo
16:50-17:10	OL-192	Effect of framework Si/Al ratio on the CO_2 adsorption mechanism on cesium-exchanged phillipsite zeolites	Hyun June Choi	Dong-A University
17:10-17:30	OL-193	Development of modified zeolites for methane capture from diluted streams	Giulia De Felice	Eindhoven University of Technology
17:30-17:40	SO-76	Separation of methane, nitrogen and helium using a layered triple reflux pressure swing adsorption	Chuhan Fu	University of Science and Technology of China
17:40-19:00	Dinner			

Date： The Afternoon of July 17

Place： 4 Venue（Meeting Room No. F306）

Chairpersons: **Yu Wang Peidong Hu**				
13:30-13:50	OL-194	Multi-parameter analysis of PEI impregnated mesoporous silica for direct air capture: correlating structure, stability, and kinetics	Tobias Beger	Leipzig University
13:50-14:10	OL-195	Adsorption of alcohols allows defining hydrophilic and hydrophobic interactions in tectosilicates	Ruixue Zhao	Technical University of Munich
14:10-14:30	OL-196	Effects of competitions on the dechlorination of pyrolysis oils by adsorption on exchanged FAU zeolites	LÉA Mussard	Universite de Poitiers
14:30-14:55	IL-34	Zeolites for biomass and plastic waste catalysis	Bert Sels	Catholic University

				Leuven
14:55-15:15	OL-197	Highly selective adsorption of CO on Ag-RHO adsorbent	Lee Zhen Hao	Korea Research Institute of Chemical Technology
15:15-15:35	OL-198	Binder jetting 3D printing of zeolites for carbon capture	Chao Ma	Arizona State University
15:35-15:50	Coffee Break			
Chairpersons: **Tobias Beger** Bert Sels				
15:50-16:10	OL-199	Acid-resistant zeolite RHO for deep dehydration	Yu Wang	Exxonmobil Technology and Engineering
16:10-16:30	OL-200	Development of zeolite adsorbent with low water sensitivity for CO_2 capture	Peidong Hu	The University of Tokyo
16:30-16:50	OL-201	Design and application of biomimetic nano-micro channel	Liping Wen	Chinese Academy of Sciences
16:50-17:10	OL-202	Optimization of metal-organic frameworks for adsorption applications	Xin Zhang	Beijing University of Technology
17:10-17:30	OL-203	Functional-IL@TS-1 with multiple adsorption sites for efficient CO_2 capture and separation in flue gas	Xin Guo	Liaoning Petrochemical University
17:30-17:40	SO-77	Revealing the crucial roles of pore interconnectivity between zeolitic and non-zeolitic components in enhancing diffusion and catalytic efficiency of industrial zeolite-based catalysts	Yipu Xu	China University of Petroleum
17:40-19:00	Dinner			

Date： The Afternoon of July 17

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: Maryam Al-Taher **Francesco Dalena**				
13:30-13:50	OL-204	Construction of MOF molecular trap adsorbents for carbon remediation and pollution control	Jianrong Li	Beijing University of Technology
13:50-14:10	OL-205	Energy-efficient petrochemical separation using structured metal-organic framework membranes	Yujie Ban	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
14:10-14:30	OL-206	Zeolite-MOF composites for light hydrocarbon and fluorinated electronic gas separations	Yaqi Wu	Ningbo Institute of Materials Technology and Engineering CAS
14:30-14:50	OL-207	Ionic liquid hybrid porous adsorbents for highly efficient ammonia adsorption and separation at high temperature	Zhiyong Li	Henan Normal University
14:50-15:15	IL-35	New descriptors for the development of zeolite catalysts used in methanol conversion processes	Andrei Parvulescu	BASF SE
15:15-15:35	OL-208	Steering the molecular diffusion pathway of H-ZSM-5 zeolites to regulate their catalytic performances	Xiaoliang Liu	SINOPEC
15:35-15:50	Coffee Break			
Chairpersons: **Jian-Rong Li** **Andrei Parvulescu**				
15:50-16:10	OL-209	Catalytic cracking technology for VGO application	Maryam Al-Taher	Aramco
16:10-16:30	OL-210	Elucidating silanol removal in MFI nanosized zeolites through controlled post-synthesis hydrothermal treatments	Francesco Dalena	Ensicaen
16:30-16:50	OL-211	Isomerization of methylenedianilines using	Sam Van	KU Leuven

		shape-selective zeolites	Minnebruggen	
16:50-17:10	OL-212	Utilisation of zeolite characteristics to enhance catalyst stability	Matthew Drewery	University of Newcastle
17:10-17:30	OL-213	BFG steel off-gas to light olefins	Yongki Park	KRICT
17:30-17:40	SO-78	Pore mouth catalysis promoting n-hexane hydroisomerization over a Pt/ZSM-5 bifunctional catalyst	Hao Jianqi	Shanghai Research Institute of Petrochemical Technology, Sinopec
17:40-19:00	Dinner			

Date： The Afternoon of July 17

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Ye Song Shihang Liang**				
13:30-13:50	OL-214	Design of Ni-zeolites for ethylene oligomerization: controlling catalyst properties by one-pot and post-synthetic Ni incorporation.	Cristina MartÍNez	CSIC
13:50-14:10	OL-215	Catalytic COS formation on Na-Faujasite for acid gas valorization	Marco Fabbiani	CNRS
14:10-14:30	OL-216	Sustainable low-cost flowsheet of producing commercial-grade impurity-free zeolites from mine waste: from lab scale to pilot plant scale	Hong Peng	The University of Queensland
14:30-14:50	OL-217	Development of high-performance hierarchical ZSM-5 catalysts for the cracking of naphtha and waste tire-derived oil into light olefins	Philani Mpungose	Cape Peninsula University of Technology
14:50-15:15	IL-36	Chemistry of adorable zeolites	Jiří Čejka	Charles University
15:15-15:40	IL-37	Overcoming the challenges of zeolites in biomass catalytic pyrolysis	David Serrano	IMDEA Energy
15:35-15:50	Coffee Break			
Chairpersons: **Jiří Čejka David Serrano**				
15:50-16:10	OL-218	Waste to wealth: a self-combustion-depolymerization approach to activate solid-waste coal gangue minerals for fluid catalytic cracking catalyst synthesis	Ye Song	Sinopec Research Institute of Petroleum Processing Co., LTD
16:10-16:30	OL-219	Tuning the Al distribution and Bronsted acidity of β zeolites during microwave syntheses for improved the alkylation performance	Shihang Liang	Sinopec Research Institute of Petroleum Processing Co., LTD
16:30-16:50	OL-220	Zeolite-catalyzed carbonylation reactions for the production of oxygenates: from fundamentals to commercialization	Wenliang Zhu	Dalian Institute of Chemical Physics, CAS
16:50-17:10	OL-221	Full-crystalline zeolite catalyst and its industrial application	Jiawei Teng	Sinopec Shanghai Research Institute of Petrochemical Technology Co., LTD
17:10-17:30	OL-222	A numerical comparison of Y and 13X zeolites for carbon dioxide capture via pressure swing adsorption	Guoping Hu	Ganjiang Innovation Academy, Chinese Academy of Sciences
17:30-17:40	SO-79	A high-efficiency heavy oil catalytic cracking catalyst that balances gasoline and light olefins	Han Lei	Sinopec Research Institute of Petroleum Processing Co., LTD
17:40-19:00	Dinner			

Date： The Morning of July 18

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Satoshi Inagaki** Muhammad Sufyan Javed				
8:30-8:50	OL-223	Synthesis of high silicon Y zeolite with machine learning strategy	Han He	Dalian Institute of Chemical Physics
8:50-9:10	OL-224	Research on porous adsorption materials for greenhouse gas (CH_4/N_2O) emission reduction	Jiangfeng Yang	Taiyuan University of Technology
9:10-9:30	OL-225	The role of zeolite in boosting platinum-catalyzed hydrogenation: insights from high-throughput infrared spectroscopy	Ludovic Pinard	Universite de CAEN
9:30-9:50	Coffee Break			
Chairpersons: **He Han** **Bo Peng**				
9:50-10:10	OL-226	Iridium-encapsulated zeolite catalyst for the selective hydrogenolysis of methyl cyclopentane with excess methylcyclohexane	Satoshi Inagaki	Yokohama National University
10:10-10:30	OL-227	Synthesis of low-dimensional porous nanomaterials for electrochemical processes in sustainable energy storage devices	Muhammad Sufyan Javed	Zhejiang Wanli University
10:30-10:50	OL-228	Porous electrocatalysts for high-performance proton-exchange membrane water electrolysis	Xiaoxin Zou	Jilin University
10:50-11:10	OL-229	Zeolite-based electrolytes: a promising choice for solid-state energy storage devices	Malin Li	Jilin University
11:10-11:30	OL-230	Interfacial engineering of mixed matrix membranes for gas separation: defect engineering of zeolitic imidazolate frameworks	Jong Suk Lee	Sogang University
11:30-11:40	SO-80	ZSM-5 molecular sieve-based interfacial layer with weakly solvated super-saturated electrolyte for dendrite-free zinc anodes	Xiaoqi Liu	China University of Petroleum
11:40-13:30	Lunch			

Date： The Morning of July 18

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Chunzheng Wang** **Risheng Bai**				
8:30-8:50	OL-231	Ordered 2D - metal-organic frameworks on porous ceramic supports for membrane separation applications	Marie-Alix Pizzoccaro-Zilamy	University of Twente
8:50-9:10	OL-232	A new regime for MOF membranes: molecular selective films that are only one unit cell thick	Kumar Varoon Agrawal	EPFL
9:10-9:30	OL-233	Highly permeable small-pore zeolite membranes for gas separation	Liang Yu	Lulea University of Technology
9:30-9:50	Coffee Break			
Chairpersons: **Kumar Varoon Agrawal** Marie-Alix Pizzoccaro-Zilamy				
9:50-10:10	OL-234	Pd-containing zeolite catalysts and their reaction mechanism for indirect oxidative carbonylation of methanol to dimethyl carbonate	Chunzheng Wang	China University of Petroleum (East China)
10:10-10:30	OL-235	Microstructure manipulation of MFI zeolite membranes on hollow fibers for advanced separations	Yuting Zhang	Nanjing Tech University
10:30-10:50	OL-236	Customization of highly efficient MOF molecular sieve membranes	Yuan Peng	Dalian Institute of Chemical Physics, Chinese Academy of

				Sciences
10:50-11:10	OL-237	MOF membranes for the separation of hydrocarbon isomers	Xinlei Liu	Tianjin University
11:10-11:30	OL-238	Zeolite-confined Pd catalysts for alkyne semi-hydrogenation	Risheng Bai	Jilin University
11:30-11:40	SO-81	Dynamic stable Pt_{13} clusters anchored on isolated ZnO_x nanorafts for efficient cycloparaffin dehydrogenation	Mingxia Song	Tianjin University
11:40-13:30	Lunch			

Date： The Morning of July 18

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Maciej Trejda Manuel Moliner**				
8:30-8:50	OL-239	Elucidation of Cs^+ ion exchange behavior using various types of zeolites	Taeyi Nam	The University of Tokyo
8:50-9:10	OL-240	Monolithic zeolite membranes for gas separation	Rongfei Zhou	Nanjing Tech University
9:10-9:30	OL-241	Zeolite membranes induced by high-activity zeolite nanocrystals enhance H_2 gas separation performance	Hailing Guo	China University of Petroleum (East China)
9:30-9:50	Coffee Break			
Chairpersons: **Rongfei Zhou Hailing Guo**				
9:50-10:10	OL-242	The effect of SBA-15 doped with $NbVO_x$ and $TaVO_x$ on the extractive catalytic desulfurization of dibenzothiophene	Maciej Trejda	Adam Mickiwicz University, PoznaŃ
10:10-10:30	OL-243	Design and synthesis of high-performance mixed matrix membranes for propylene/propane separation	Meixia Shan	Zhengzhou University
10:30-10:50	OL-244	Non-toxic nanosized zeolites for oxygen delivery and magnetic resonance imaging	Abdallah Amedlous	Laboratoire Catalyse Et Spectrochimie/Ensicaen
10:50-11:10	OL-245	Zeolites in solar protection: unveiling stability and structural insights	Rossella Arletti	University of Modena
11:10-11:45	KL-14	Resolving complex interactions in doped metal-zeolites for catalytic applications	Manuel Moliner	UPV-CSIC
11:45-13:30	Lunch			

Date： The Morning of July 18

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Sharon Ashbrook** Mohamed Eddaoudi				
8:30-8:50	OL-246	Rational design of zeolites for catalysis: myth or reality?	Benoit Louis	University Strasbourg - CNRS
8:50-9:10	OL-247	P-band intermediate state theory: from concept to catalytic application	Kun Zhang	East China Normal University
9:10-9:20	SO-82	Fiber-based porous membranes achieved special liquid/liquid separation properties	Qifei Wang	Jilin University
9:20-9:30	SO-83	Study on the Structure Guide Mechanism of Solid Phase Synthesis Can Zeolite from Coal Gasification Slag and Its Cr^{6+} Structure Fixation in Waste Water	Mei Yang	Ningxia University
9:30-9:50	Coffee Break			
Chairpersons: **Benoit Louis Kun Zhang**				
9:50-10:10	OL-248	Revealing the role of formaldehyde in	Chengyuan	University of Science and

		methanol to hydrocarbons by synchrotron radiation photoionization mass spectrometry	Liu	Technology of China
10:10-10:30	OL-249	Engineering zeolite-based core-shell architectures for advanced catalytic applications in NO_x adsorbers and ammonia oxidation	Xiaoxin Chen	Jilin University
10:30-11:05	KL-15	Exploiting NMR spectroscopy and isotopic enrichment to understand the structure and chemical reactivity of zeolites	Sharon Ashbrook	University of St Andrews
11:05-11:30	IL-38	To be determined	Mohamed Eddaoudi	KAUST
11:30-13:30	Lunch			

Date： The Morning of July 18

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Russell Morris Masahiko Matsukata**				
8:30-8:50	OL-250	Structural evolution and catalytic application of defective zeolites	Hao Xu	East China Normal University
8:50-9:10	OL-251	Dynamic Host-Guest Chemistry in Water-Molecular Sieve Systems: From Six-Coordinated Al to Reversible T-O-T Bond Reconstruction	Shutao Xu	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
9:10-9:30	OL-252	Hierarchical zeolite single crystal reactor for maximum catalytic efficiency	Lihua Chen	Wuhan University of Technology
9:30-9:50	Coffee Break			
Chairpersons: **Hao Xu Honggen Peng**				
9:50-10:10	OL-253	A facile strategy of synthesizing nanosized NaY zeolite	Peng Liu	Henan Normal University
10:10-10:45	KL-16	ZeoMOFs – hybrid materials that exploit the advantageous properties of zeolites and metal-organic frameworks	Russell Morris	University of St Andrews
10:45-11:10	IL-39	Prospects of zeolite membranes and membrane reactors	Masahiko Matsukata	Waseda University
11:10-11:30	OL-254	Tuning the morphology, acidity and aluminum distribution of two-dimensional zeolites for sustainable catalysis	Zhendong Liu	Tsinghua University
11:30-11:40	SO-84	Hydrophobic micro-mesoporous organosilica/silicalite-1 composite membrane for efficient bioethanol purification	Ting Qi	Changzhou University
11:40-13:30	Lunch			

Date： The Morning of July 18

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Christophe Copéret Massimo Migliori**				
8:30-8:50	OL-255	Insight into the intrinsic driving force of NiCoP/$ZnIn_2S_4$−x boosting solar urea synthesis and hydrogen production	Zhonghua Li	Harbin Institute of Technology
8:50-9:10	OL-256	Acid-driven strategy for the controllable construction of Lewis acid sites in zeolites	Limin Ren	Dalian University of Technology
9:10-9:20	SO-85	A reversible and extremely strong bonding between coagulation factor Xa and zeolites induce efficient coagulation reaction	Xunfei Wei	Zhejiang University
9:20-9:30	SO-86	Development of multifunctional metal-organic	Yang Song	Sinopec Research

		frameworks for catalytic applications		Institute of Petroleum Processing
9:30-9:50	Coffee Break			
Chairpersons: **Peng Guo Limin Ren**				
9:50-10:25	KL-17	Titanium silicate: structure through the lens of NMR and XAS	Christophe Copéret	ETH Zurich
10:25-10:50	IL-40	Recent progress of Zeolite Templated Carbon (ZTC) applications in light gases adsorption and catalysis	Massimo Migliori	UNICAL
10:50-11:15	IL-41	Solid-state NMR investigation of the structure-function relationship for MOF based catalysts	Jun Huang	The University of Sydney
11:15-11:35	OL-257	Pillararene-based covalent organic polymers for photocatalysis	Ying-Wei Yang	Jilin University
11:40-13:30	Lunch			

Date： The Afternoon of July 18

Place： 1 Venue（Meeting Room No. F303）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Yanan Wang Zhonghua Li**				
13:30-13:50	OL-258	Multiscale structure control of zeolite using poly-quaternary ammonium cations	Kake Zhu	East China University of Science and Technology
13:50-14:10	OL-259	Manipulation of zeolitic layer stacking and coordination environment of active sites for catalysis	Le Xu	Nanjing Tech University
14:10-14:30	OL-260	Precise control of the microenvironment metal active sites in zeolites for catalytic conversion of alkanes and alkenes	Lichen Liu	Tsinghua University
14:30-15:05	KL-18	Database and machine learning of zeolites	Yi Li	Jilin University
15:05-15:30	IL-42	Assessment of hydrophilicity/hydrophobicity in nanoporous materials	Matthias Thommes	Friedrich-Alexander University Erlangen-Nürnberg
15:30-15:50	Coffee Break			
Chairpersons: **Matthias Thommes**				
15:50-16:10	OL-261	Green and controllable synthesis of MWW zeolite	Yanan Wang	Dalian Institute of Chemical Physics, CAS
16:10-16:30	OL-262	Structural insights driving directed synthesis of advanced zeolites	Xiaona Liu	Dalian Institute of Chemical Physics, CAS
17:40-19:00	Dinner			

Date： The Afternoon of July 18

Place：2 Venue（Meeting Room No. F304A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Yueying Chu Chong Peng**				
13:30-14:05	KL-19	Temperature measurement in zeolite catalyst	Mao Ye	Dalian Institute of Chemical Physics, CAS
14:05-14:30	IL-43	Mechanistic insights into methanol-to-olefin conversion in zeolites	Chuanming Wang	Sinopec Shanghai Research Institute of Petrochemical Technology
14:30-14:50	OL-263	High-throughput structure determination of polycrystalline porous materials	Jian Li	Nanjing University
14:50-15:10	OL-264	Development of low-dose three-dimensional electron diffraction and its applications on nanoporous materials	Zhehao Huang	South China University of Technology

15:10-15:30	OL-265	Atomically dispersed Cu@SAPO-34 with Cu-O Tetrahedral coordination for high-efficiency low-temperature NH_3-SCR performance	Zhibin Li	Heilongjiang University
15:30-15:50	Coffee Break			
Chairpersons: **Mao Ye**				
15:50-16:10	OL-266	Location and dynamic transformation of lanthanum species in HY zeolite	Yueying Chu	Innovation Academy for Precision Measurement Science and Technology, CAS
16:10-16:30	OL-267	Study on the preparation and structural properties of core-shell hierarchical pore molecular sieve synthesized by a silicon coating method	Chong Peng	Dalian University of Technology
17:40-19:00	Dinner			

Date： The Afternoon of July 18

Place： 3 Venue（Meeting Room No. F305）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Jie Liang Zhiyang Chen**				
13:30-13:50	OL-268	Research on the Application of MOFs in Refining and Petrochemical Separation Processes	Qihan Gong	PetroChina Petrochemical Research Institute
13:50-14:10	OL-269	Elucidating the methanol-to-olefins (MTO) reaction mechanism on zeolite via solid-state NMR	Chao Wang	Innovation Academy for Precision Measurement Science and Technology, CAS
14:10-14:30	OL-270	Mechanistic study of glycerol oxidation on Pt/Sn-MFI by in-situ solid-state NMR	Guodong Qi	Innovation Academy for Precision Measurement Science and Technology, CAS
14:30-14:50	OL-271	Smart and responsible zeolite catalysts for toluene “storage-oxidation” cycling removal	Bingbing Chen	Dalian University of Technology
14:50-15:10	OL-272	The mechanism of metal-zeolites in alkane dehydrogenation	Zhongpan Hu	Dalian Institute of Chemical Physics, CAS
15:10-15:30	OL-273	Optimizing aromatics and syngas production in propane conversion through CO_2 coupling over Ga/ZSM-5	Jingfeng Han	Dalian Institute of Chemical Physics, CAS
15:30-15:50	Coffee Break			
Chairpersons: **Qiming Sun**				
15:50-16:10	OL-274	The application of zeolites in biomass conversion for renewable bio-oils	Jie Liang	Beihang University
16:10-16:30	OL-275	Coupling of CO_2 and DME to aromatics with excellent selectivity and stability via reducing residual olefin	Zhiyang Chen	Dalian Institute of Chemical Physics, CAS
17:40-19:00	Dinner			

Date： The Afternoon of July 18

Place： 4 Venue（Meeting Room No. F306）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Mingbin Gao Yi Liu**				
13:30-13:50	OL-276	Study on catalytic thermal pyrolysis of fatty acid and mechanisms of product regulation	Jian Tian	Huaqiao University
13:50-14:10	OL-277	Discovery of ketene/acetyl as a potential receptor for hydrogen-transfer reactions in zeolites	Bo Yang	Shanghaitech University

14:10-14:30	OL-278	Probing Metal-Acid Synergistic Sites in Mo/ZSM-5 Zeolites through ^{1}H-^{95}Mo Solid-State NMR Correlation Spectroscopy	Qiang Wang	Innovation Academy for Precision Measurement Science and Technology, CAS
14:30-14:50	OL-279	Zeolites for low concentration CO_2 capture	Donglong Fu	Tianjin University
14:50-15:10	OL-280	Zeolite-type carbon materials for adsorptive CO_2 capture	Guangping Hao	Dalian University of Technology
15:10-15:30	OL-281	Improvement of surface barriers on mordenite by surface modification to enhance dimethyl ether carbonylation	Hu Liu	Tianjin University
15:30-15:50	Coffee Break			
Chairpersons: **Guangping Hao**				
15:50-16:10	OL-282	Visualization of spatio-temporal evolutions of temperature within thermochromic zeolite catalysts at work	Mingbin Gao	Xiamen University
16:10-16:30	OL-283	Near-freezing temperature and supercritical fluid processing of ZIF-8 membranes towards superior C_3H_6/C_3H_8 separations	Yi Liu	Dalian University of Technology
17:40-19:00	Dinner			

Date： The Afternoon of July 18

Place： 5 Venue（Meeting Room No. F307A）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Kaikai Ma Haitao Liu**				
13:30-13:50	OL-284	Shape-selective coking and decoking chemistry in zeolite catalyst for resource utilization of polycyclic aromatic hydrocarbons and low-carbon process	Nan Wang	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
13:50-14:10	OL-285	Designing molecular sieve-based photocatalysts for applications in energy-related photocatalysis	Xiao Wang	North China University of Science and Technology
14:10-14:30	OL-286	Synthesis of hierarchical MFI zeolite membranes via conversion of wet gel layers with sacrificial seed layers below for butane isomer separation	Jun Li	Zhejiang University
14:30-14:50	OL-287	Zeolites as effective matrixes to prevent carbon dot aggregation-induced quenching	David FernÁNdez-Ortiz	University of Alicante
14:50-15:10	OL-288	Regulation of zeolite property and performance in cracking crude oil for chemicals production	Hui Wang	Institute f Process Engineering, Chinese Academy of Sciences
15:30-15:50	Coffee Break			
Chairpersons: **Nan Wang**				
15:50-16:10	OL-289	Today and tomorrow: zeolites application in chemical industry	Haitao Liu	China Catalyst Holding CO., LTD.
16:10-16:30	OL-290	Application of MOF composites in chemical weapon detoxification	Kaikai Ma	The Hong Kong Polytechnic University
17:40-19:00	Dinner			

Date： The Afternoon of July 18

Place： 6 Venue（Meeting Room No. F307B）

Time	Report ID	Title	Speaker	Institution
Chairpersons: **Xiao Chen Xuerui Wang**				
13:30-13:50	OL-291	Selective conversion of ethanol to high-carbon	Jia Wang	Dalian University of

		alcohols over hydroxyapatite catalyst		Technology
13:50-14:10	OL-292	Evaluation of the acidity of SAPO materials related to Si distribution and flexibility: comparison of AFI-, AEI-, and CHA-structures.	Ludovica Pace	University of Caen
14:10-14:30	OL-293	Optimized performance of zeolite-catalyzed liquid-phase xylene isomerization by using macroporous alumina binder	Weiyi Tong	Sinopec Shanghai Research Institute of Petrochemical Technology Co. Ltd.
14:30-14:55	IL-44	Nano-engineered zeolites in hydrocracking catalysts – unlocking ultimate performance	Johan Den Breejen	Shell Global Solutions Int
15:30-15:50	Coffee Break			
Chairpersons: **Yi Luo**				
15:50-16:10	OL-294	Atomic-scale structural characterization of the local structure of zeolite	Xiao Chen	Tsinghua University
16:10-16:30	OL-295	Synthesis and performance of STT zeolite membranes for He/N_2 and He/CH_4 separation	Xuerui Wang	Nanjing Tech University
17:40-19:00	Dinner			

Poster Presentations

July 14, 19:00–21:00

No.	ID	Title of the Abstract	Author	Author Affiliation
P-001	11512	A Critical Revisit of Zeolites for CO_2 Desorption in Primary Amine Solution Argues its Genuine Catalytic Function	Cheng Zhou	KU Leuven
P-002	11386	Low-valent CuO_x Species Constructs on Mesoporous Molecular Sieves Catalyze the Epoxidation of Propylene with Molecular Oxygen	Kai Wang	Xiamen University
P-003	11144	Selective Olefin Production from Naphtha and Methanol over ZSM-11 Zeolite	Na Young Kang	Korea Research Institute of Chemical Technology
P-004	11185	Hierarchical LTL Zeolite as an Efficient Solid Acid Catalyst for Replacing HCl in the Production of Polyurethane intermediates	Susung Lee	Korea Advanced Institute of Science and Technology
P-005	11471	Enhanced Catalytic Ring-Opening of Propylene Oxide Using a Germanium Containing MFI Zeolite Catalyst	Francesco Dalena	ENSICAEN
P-006	11202	High Selectivity CO Hydrogenation to Aromatics Employing $ZnCr_2O_4$/ZSM-5 with Fully Exposed Sinusoidal Channels	Xiaoyu Liang	Tsinghua University
P-007	11209	Highly Efficient Production of Aromatics from C_2H_5Cl Coupling with CO over H-Zeolites	Bin Li	Dalian Institute of Chemical Physics
P-008	11241	The DFT Analysis of ETS-10, EVTS-10 and AM-6	Heloise Pastore	University of Campinas
P-009	11260	Oxidation Depth of Fe_3O_4 Adjustment by Mesoporous SiO_2 Coating and Catalytic Performance on Fischer-Tropsch Synthesis	Zhen Liu	China University of Petroleum (East China)
P-010	11373	Preparation of MFI Zeolite-encapsulated Pt Catalyst with High Thermal Stability Using Pt-supported Silica Gel as a Precursor and its Application to Ethane Dehydroaromatization Reaction	Raichi Asami	Institute of Science Tokyo
P-011	11346	Co-hydrogenation of Benzothiophene and 2,5-Dimethylhexadiene-2,4 in the Presence of NiMoS/MCM-41 Catalyst	Sijing Dai	Lomonosov Moscow State University

P-012	11353	Tailoring the Cobalt Environment and Porosity of Co@Silicalite-1 for Selective Oxidation of Cyclohexane	Baorong Wang	Jiangxi Normal University
P-013	11394	A Y-based Metal-Organic Framework with An Infinite Y-O Chain for Knoevenagel Condensation	Si Jincheng	Jilin University
P-014	11421	Jet Fuel Synthesis via Fischer–Tropsch Synthesis Reaction over Ordered Mesoporous m-$CoAlO_x$ Hybridized with H-ZSM-5	Dongming Shen	Sungkyunkwan University
P-015	11423	Cooperative Regulation of Oxygen Vacancies and Hydrogen Peroxide in the Photocatalytic Degradation of TCH	Huabing Zhang	Panzhihua University
P-016	11469	Few-layered MoS_2 as a Catalyst for the Fatty Acid Hydrodeoxygenation to Alkanes	Fuli Deng	Technical University of Munich
P-017	11596	Enhanced Stability and Performance of Potassium-Loaded Zeolite NaY Catalysts for Biodiesel Production	Jatuporn Wittayakun	Suranaree University of Technology
P-018	11599	Investigation of Catalytic Conversion of Acetone-butanol-ethanol Mixture Using Ni-Ru Catalysts on Zeolitic Imidazolate Framework	Sanchai Prayoonpokarach	Suranaree University of Technology
P-019	11626	Synergistic Boosting Photocatalytic Activity in Donor–π–Acceptor Porous Aromatic Frameworks: A Combined Strategy of Donor-Acceptor Optimization and Acetylenyl-Bridge Design	Weipeng Wang	Northeast Normal University
P-020	11631	Degradation of Dye Wastewater	Yingbo Song	Northeast Normal University
P-021	11655	Tracking the Formation of Mesopores in Zeolite Y and Zeolite beta using in situ Small-angle X-ray Scattering and their catalytic applications	Nopphawan Bunthiam	University College London
P-022	12133	Catalytic Oxidation of Organic Sulphides by H_2O_2 in the Presence of MWW Titanosilicate Zeolites	Aleksandra Jankowska	Jagiellonian University
P-023	12219	Controlled Assembly of Metal Atoms for Efficient Ammonia Synthesis	Yurui Xue	Jilin University
P-024	11203	Screening of Zeolites in Tandem CO_2 Hydrogenation and Olefin Formation	Rakuhi Cho	Waseda University
P-025	11186	Gear-Catalysis Driven by Nanozeolite Units Boosting Sequential Conversion of Methanol-to-Aromatic	Zhizheng Sheng	Sinopec Shanghai Research Institute of Petrochemical Technology Co., Ltd.

P-026	11563	Enhanced BTX Yield from Methanol over Alcohol-Modified ZSM-5 Zeolites	Qi Li	Institute of Science Tokyo
P-027	11647	Tailoring CHA Zeolite Synthesis by Addition of Alcohol for Enhanced Methanol-to-Olefins (MTO) Catalytic Performance	Sun Yuqin	Institute of Science Tokyo
P-028	11642	Comparative Investigation on SAPO-34 and SAPO-18: Acidic and Catalytic Properties for MTO Reaction	Xiuqi Yao	Institute of Science Tokyo
P-029	12187	Insight into the Mechanism of SAPO-34 Catalyst Deactivation during MTO Process by in-situ 3D Electron Diffraction	Yifei Ge	South China University of Technology
P-030	12551	New Generation of Y/ZSM-5 Zeolites: A New Era for Model Reactions	Ludovic Pinard	LCS-CNRS-ENSICAEN
P-031	11377	Development of Negative Thermal Expansion Zeolite Fillers for Semiconductor Packages	Yutaro Tanaka	Mitsubishi Chemical Corporation
P-032	11554	Breakthrough in Electrically Conductive Zeolites Enables Chemiresistive Gas Sensing Beyond Known Limits	Daichuan Xia	Jilin University
P-033	10767	The Effect of Ru Configurations on the Catalytic Performance of the Bifunctional Hydroalkylation Catalyst	Wennian Wang	Sinopec Shanghai Research Institute of Petrochemical Technology Co., Ltd.
P-034	10773	New Generation of Ti/Zr-USY Containing Hydrocracking Catalysts to Improve Middle Distillate Yield	Guanghui Zhu	Saudi Aramco
P-035	11435	Cs Ion Selectivity in Alkaline Form and Acid Strength in H-form Generated by Charge Delocalization on AlO_4 Unit in Zeolite	Naonobu Katada	Tottori University
P-036	11915	Novel Inorganic Microporous Crystalline Functional Materials with Excellent Ion-exchange Properties	Yucheng Hao	Hefei University
P-037	11987	Innovative Inorganic Microporous Crystalline Frameworks with Enhanced Ion-Exchange Capacities for Advanced Functional Applications	Yucheng Hao	Hefei University

P-038	11053	Dual pH-and Temperature-Responsive Performance and Cytotoxicity of Bimodal Mesoporous Silicas Modified by Different Amounts of Acrylic Acid and N-Isopropylacrylamide on HeLa Cells	Jihong Sun	Beijing University of Technology
P-039	11545	Fabrication of a Widely Applicable Antiviral Nanomaterial and its Underlying Viral Structural Destruction Mechanism	Yuheng Sheng	Jilin University
P-040	10949	Characterization of Copper Species over Cu-SAPO-34 in De-NO_x SCR by Propylene	Hao Zhou	Changzhou Institute of Engineering Technology
P-041	11155	Effect of Water Removal by Hydrophilic Zeolite Membranes on Direct-Fischer-Tropsch Synthesis over Co Catalyst	Atsuto Okada	Waseda University
P-042	11025	Influence of Sodium Ion on High-Silica SSZ-13 Membranes for Efficient CO_2/CH_4 and N_2/CH_4 Separations	Peipei Zhou	China University of Petroleum
P-043	11050	Acetalization of Cyclohexanone with Methanol by Membrane Reactor with MOR Zeolite Membrane	Zesheng Ji	Waseda University
P-044	10952	MOF UIO-66 Membranes for Organic / Organic Separation	Shenyi Tang	Tianjin University
P-045	10981	Computational-Aided Development of MOF-Based Membranes for Molecular Separation	Guillaume Maurin	Université Montpellier
P-046	10991	In situ Transformation of Amorphous Supramolecular Coating to Hydrogen-Bonded Organic Framework Membrane to Trigger Selective Gas Permeation	Caiyan Zhang	China University of Petroleum (East China)
P-047	11190	Hybrid 2D JDF-1 Zeolite-Based Membranes for Hydrogen Separation Application	David Magnus Wolf	Institute of Energy Materials and Devices (IMD2)
P-048	11275	In Situ Water Separation by Na+-Gated Zeolitic Membranes for Boosting Heterogeneous Catalysis	Jia Ding	Zhejiang University of Technology
P-049	11605	Surface Induced Growth of Lamellar Porous Aromatic Framework for Nanofiltration Membrane	Mengxiao Sun	Northeast Normal University
P-050	11754	Fabrication of Defect-Free Alumina-Zeolite-Silica Membranes by the Avoidance of Surface Tension for H_2 Separation at High Temperatures	Tanzila Anjum	Dalian University of Technology

P-051	10903	NEREA® Technology for the Industrial Production of New Zeolitic Nanostructured Substrate and Fertilizers for Agriculture Based on Natural Zeolite Engineering	G Rodríguez-Fuentes	University of Havana
P-052	10803	In Search of Energy-Efficient Materials for Atmospheric Water Harvesting	Haonuan Zhao	Normandie University
P-053	10951	Water Harvesting with Zeolite, MOF, COF and HOF Adsorbents	Bo Zhang	Tianjin University
P-054	11020	Transient-State Self-Bipolarized Organic Frameworks of Single Aromatic Units for Natural Sunlight-Driven Photosynthesis of H_2O_2	Gang Liu	Jilin University
P-055	11151	Constructing Pt Clusters to Maximize Pt Metal Utilization in Hydroconversion	Xuan Guo	Tianjin University
P-056	11557	Ultrafine Platinum Nanoparticles Anchored in Porous Aromatic Frameworks for Efficient Hydrogen Evolution Reaction	Xiao Yang	Northeast Normal University
P-057	11567	Binder-Free Pt/PAF Membrane Electrodes for Durable High Current Density Hydrogen Evolution	Jiahui Li	Northeast Normal University
P-058	11569	Porous Aromatic Frameworks Enabling Polyiodide Confinement toward High Capacity and Long Lifespan Zinc–Iodine Batteries	Junfang Hu	Northeast Normal University
P-059	11573	Design of a New JIS-10:Ln (Ln = Ce, Eu, Tb) Single-Doped Green and Environmentally Friendly Phosphor and its Application in High-Efficiency White LED	Xinyuan Zhang	Jilin University
P-060	11598	Porphyrin-Framed PAF Based Single-Ion Lithium Salt Boosting Solid-State Lithium Battery Performance at Low Temperatures	Mengxuan Yu	Northeast Normal University
P-061	11621	Zwitterionic Vinylene-Linked Covalent Organic Framework with Extended π-Conjugation as Wide-Temperature Solid-State Electrolyte for (Anode-free) Solid-State Li-metal Batteries	Weichuan Zhou	Northeast Normal University
P-062	10900	Emerging Co-Synthesis of Dimethyl Oxalate and Dimethyl Carbonate Using Pd/Silicalite-1 Catalyst with Synergistic Interactions of Pd and Silanols	Chunzheng Wang	China University of Petroleum (East China)

P-063	11001	Study on the Resistance to Hydrothermal Deactivation of ZSM-5 Zeolite	Lixia Wang	SINOPEC Research Institute of Petroleum Processing Co., Ltd.
P-064	11391	Tuning the Structural Properties of Crystalline $AlPO_4$ for the Efficient Synthesis of SAPO Zeolites with 8-, 10-, and 12-Membered Rings	Shihang Liang	SINOPEC Research Institute of Petroleum Processing Co., Ltd.
P-065	11300	Effect of Steam-Treated Beta Zeolite on One-Step Synthesis of Lactide from Lactic Acid: Structure and Activity	Xueli Cheng	China University of Petroleum (East China)
P-066	12285	High-Performance Solid Adsorbents in CO_2 Capture Technology	Qian Jia	Institute of Coal Chemistry, Chinese Academy of Sciences
P-067	10659	Direct Air Capture with Commercial MOR Zeolite: An Alternative to Amine Adsorbent Technologies	Christopher Jones	Georgia Institute of Technology
P-068	10968	Porous Sorbents for Direct Capture of Carbon Dioxide from Ambient Air	Yuchen Zhang	Beijing University of Technology
P-069	11045	Fractal Evolution of the Loading and Releasing Performances of Menthol Encapsulated on the Bimodal Mesoporous Silica	Jihong Sun	Beijing University of Technology
P-070	11253	Loading and Releasing Performances of Linalyl Acetate Encapsulated on the Bimodal Mesoporous Silica	Jihong Sun	Beijing University of Technology
P-071	10999	Purification of Isoprene from C5 Hydrocarbon Mixture in Metal-Organic Frameworks	Fang Yu	Beijing University of Technology
P-072	11195	Design of Amine-Containing Porous Materials for Post-Combustion CO_2 Capture from Engineering Perspectives	Younghwan Park	Korea Advanced Institute of Science and Technology
P-073	11085	Effect of Water Content on the Adsorption of C8 Aromatics on FAU Zeolite	Yuhao Song	East China University of Science and Technology
P-074	11187	Basic Zeolites as Efficient Adsorbents for Removing Acetylene from an Ethylene-Rich Stream	Chanyoung Oh	Korea Advanced Institute of Science and Technology
P-075	11051	Ultramicroporous Metal-Organic Frameworks Rich in Polar Oxygen Groups are Used for Highly Selective CO_2 Capture in Humid Environments	Li Wenliang	Beijing University of Technology

P-076	11235	Truly Combining the Advantages of Zeolite and Polymeric Membranes: How Zeolite Properties Impact the Separation Performance of Mixed Matrix Membranes for the Separation of CO_2	Sven Robijns	KU Leuven
P-077	11301	Microenvironment Regulation of Micropores in Zeolite by Carbon Dots for Efficient Flue Gas Separation	Yining Yang	Jilin University
P-078	11315	The Influence of Matrix Materials on the Accessibility of Acid Centers in FCC Catalysts	Qin Tang	Liaoning Petrochemical University
P-079	11336	Hindered CH_4 Diffusion in ETS-4 Zeo-Type Materials by Transition Metal Substitution	Hafez Maghsoudi	Vrije Universiteit Brussel (Vub)
P-080	11361	Adsorption Performance and Mechanism of Methanol by H-ZSM-5, H-Beta, and H-SSZ-13 Zeolites	Xueli Guo	University of Science and Technology of China
P-081	11459	Self-Forming Hierarchical Porous Carbon for Enhanced Carbon Dioxide Adsorption and Capture Efficiency	Guohua Zhao	Dalian University of Technology
P-082	11360	Separating CO_2 from H_2O: The Performance of RHO Nanozeolite	Edwin Clatworthy	Université de Caen Normandie, ENSICAEN, CNRS, Laboratoire Catalyse et Spectrochimie
P-083	11390	Ultra-Fine Tuning of Ultra-Microporous Cd-MOFs with Remarkable C_2H_2 Selectivity	Xiaoyan Liu	Jilin University
P-084	11460	Potassium-Activated Nanocages for Ultra-Sensitive SF_6 Recognition and Recovery	Miao Wang	Dalian University of Technology
P-085	11568	Soft Chemical-Exfoliated 2D Monolayer Zeolite for Efficient CO_2/C_2H_2 Separation	Ang Li	Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences
P-086	11509	Influence of Cations on the Structure of LTA Zeolite in Different CO_2 Adsorption Processes	Mariele De Mello	Chemistry Institute, University of Rio Grande do Norte
P-087	11618	Two-Order-of-Magnitude Enrichment of Trace N_2O in Sludge Sintering Exhaust Gas Using 13X Zeolite	Hanlong Ya	The University of Tokyo

P-088	11542	Engineering Pore Environment of RHO Zeolite Toward Benchmark CO_2/C_2H_2 and C_2H_2/CO_2 Adsorptive Separation	Ruobing Bai	Jilin University
P-089	11566	A New Post-Synthetic Route to Graft Amino Groups in Porous Organic Polymers for CO_2 Capture	Qihaoyue Wang	Northeast Normal University
P-090	11562	Energy saving cooling by AHP for data center, plants, etc. by AlPO type zeolite	Takahiko Takewaki	Mitsubishi Chemical Corporation
P-091	11609	Uranium Extraction from Seawater via Hydrogen Bond Porous Organic Cages	Wanning Wu	Northeast Normal University
P-092	11586	Stabilization and Control of Gate CO_2 Adsorption Performance of PHI-type Zeolite by Composition with CHA-Type Zeolite	Yuto Higuchi	Kansai University
P-093	11602	Synthesis of NaY and LiY Composites with Sugarcane Bagasse Ash and Rice Husk Ash for CO_2 Adsorption	Chalermpan Keawkumay	Suranaree University of Technology
P-094	11604	Negative Electrostatic Sugared Gourd Pore within Nickel-Based Metal-Organic Framework for One-Step Purification Acetylene	Xing-Zhe Guo	Northeast Normal University
P-095	11614	Pore Size Modulation of Porous Aromatic Framework Membrane by Sub-Nanoclusters for Efficient Helium Purification	Geng Tan	Northeast Normal University
P-096	11990	Porous Sorbents for Direct Capture of Carbon Dioxide from Ambient Air	Yuchen Zhang	Beijing University of Technology
P-097	11628	High-Capacity Uranium Extraction from Seawater through Constructing Synergistic Multiple Dynamic Bonds	Doudou Cao	Northeast Normal University
P-098	11630	Molecularly Imprinted Porous-Organic Framework with pH-Responsive Adsorption Sites for the Selective Adsorption of Iron	Lu Luo	Northeast Normal University
P-099	11629	Pillaring Hydrogen Bonded Dense Structures of Chitosan for the Biosafe High-Performance Humectant	Yue Zheng	Northeast Normal University
P-100	12370	Indirect Mineralization of CO_2 Using Recyclable Glycine with Carbide Slag	Qi Wang	Ning Xia University
P-101	11149	Orb and CURIE: Bringing Lightning-Fast, DFT-Accurate Simulations in Your Lab's Toolkit	Ruxandra Chitac	Orbital Materials

P-102	10927	Theoretical Study of Anthracene Hydrocracking over Pt1@Hy Zeolite	Wenli Bao	Tiangong University
P-103	10928	Mechanistic Understanding of N-Heptane Aromatization over H-ZSM-5 Zeolite	Guangyuan He	Tiangong University
P-104	11295	Insights into the Structure and Basicity of Nitrogen-Containing Beta Zeolites from Solid-State NMR Spectroscopy and DFT Calculations	Weiping Zhang	Dalian University of Technology
P-105	11521	DFT Modeling of Double-Bridge Configuration in Ge-MFI Zeolite	Stoyan Gramatikov	University of Sofia
P-106	11613	Modeling of Probe Molecule Adsorption and Si Vacancy Formation in YNU-2 Zeolite	Rositca Nikolova	University of Sofia
P-107	12374	Metal-Exchanged Zeolites: A Multiscale Theoretical Approach Combining Extended Cluster Models, Periodic DFT, and First-Principles Md	Yu Li	Ningxia University
P-108	11017	A Highly Active and Stable Palladium Zeolite Catalyst for Wet Methane Combustion	Xuechao Tan	Pohang University of Science and Technology
P-109	11352	Constructing Bridge Hydroxyl Groups on the $Ru/Mo_x/HZSM-5$ (M = W, Mo) Catalysts to Promote the Hydrolysis Oxidation of Multicomponent VOCs	Linke Wu	Beijing University of Technology
P-110	10876	Regeneration of a Sulfur-Poisoned Selective Catalytic Reduction Catalyst at Ambient Conditions	Jihoon Cha	Seoul National University
P-111	10921	Understanding How Diffusion of Nitrite and Nitrate Species Improves Activity and Stability in NH_3-SCR over Hybrid Manganese Oxide-HY Zeolite Catalysts	Sung Min Kim	Seoul National University
P-112	11147	Effect of Low-Loading Pt on Pd/SSZ-39 for Low Temperature NO_X Adsorption	Xiaoyan Shi	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
P-113	11380	Atomic-Level Understanding of the Impact of SO_2 on the NH_3-SCR Activity of Cu-Zeolite Catalysts	Wenqing Ding	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
P-114	11356	Study of Pd/SSZ-16 in Denox Process	Yaqi Lai	Zhejiang University

P-115	11389	Revealing the Hydrothermal Stability Mechanism of Potential NH_3-SCR Catalyst Cu-KFI Zeolite: A Comparison with Cu-CHA Zeolite	Zhongqi Liu	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
P-116	11422	Enhanced Hydrothermal Stability of Fe-Cu-SSZ-50 Zeolite NH_3-SCR Catalysts Through Dynamic Fe Site Redispersion	Yu Sun	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
P-117	11031	Investigating the Effects of Modified Zeolite Y on the Degradation of Polypropylene: A Systematic Study	Claudia Fabris	Universitet of Olso
P-118	11088	Shaping of Zeolites Y: New Acid Sites and Their Role in Polypropylene Cracking	Kinga Góra-Marek	Jagiellonian University in Krakow
P-119	11540	Hierarchical Zeolite Catalysts for Recycling Valuable Light Aromatics in Co-conversion of Polystyrene	Chenzhu Wang	Jilin University
P-120	11552	Atomically Dispersed Nickel over Beta Zeolite as Catalysts for Polystyrene Plastic Recycling	Mingkun Gao	Jilin University
P-121	11578	Efficient Solvent- and Hydrogen-Free Upcycling of High-Density Polyethylene into Separable Cyclic Hydrocarbons	Junjie Du	University of Science and Technology of China
P-122	11107	Ethoxylation of D-Limonene over Zeolites: Evidences on the Effect of Structure and Acidity	Girolamo Giordano	University of Calabria
P-123	11120	Development of Zeolite Ni Encapsulated NPS Catalysts with High Hydrothermal Stability for Steam Reforming Reaction of Biomass Pyrolysis Oil	Takano Mana	Institute of Science Tokyo
P-124	11607	Current Challenges and Opportunities in Heterogeneous Deoxydehydration (DODH) Reaction	Yifeng Liu	KU Leuven
P-125	11006	Fundamental Catalytic Properties of Extra-Large Pores ZEO-1 Zeolite	Nourrdine Chaouati	Laboratoire de Catalyse et Spectrochimie
P-126	11030	Design and Synthesis of Ru/Y Catalysts for High Selective Oxidation of 5-Hydroxymethylfurfural	Yingshuo Guo	China University of Petroleum (Beijing)
P-127	11026	Synthesis of Zr-Bea Zeolite for Furfural Transfer Hydrogenation	Yitong Zhao	China University of Petroleum (Beijing)
P-128	11072	Initial Phase Regulation of Fe-Based Fischer-Tropsch Synthesis Catalysts Supported by Mesoporous Silica Using Carbon Source Co-Impregnation	Zhuang Ma	China University of Petroleum (East China)

P-129	11214	Isomorphic Incorporation of Zr into Hierarchical H-Beta Zeolites: The Influence of Mesoporosity and Acidity Nature on the Conversion of Furfural to Isopropyl Levulinate	Ernesto Antonio Urquieta-Gonzalez	Federal University of São Carlos
P-130	11372	Generation of Lewis Acidity in HZSM-5 Zeolites by Thermal Treatments – Application to Valorization of Biomolecules via the MPV Mechanism	Ernesto Antonio Urquieta-Gonzalez	Federal University of São Carlos
P-131	11230	Reactivity of Carbohydrates over Sn-Beta Catalysts	Gerhard Pirngruber	Ifp Energies Nouvelles
P-132	11311	Co Single Atoms/Nanoparticles over Carbon Nanotubes for Synergistic Oxidation of 5-Hydroxymethylfurfural to 2,5-Furandicarboxylic Acid	Chengfeng Yi	Hunan University
P-133	11393	Development of Zeolite-Supported Metal Catalyst for Selective Conversion of 5-Hydroxymethylfurfural to the Components of Fuels	Apinya Wijitrat	Institute of Science Tokyo
P-134	11601	How Molecular-Sized Confinements Promote Hydrolysis of Aryl Methyl Ethers over Zeolites	Xian Wu	KU Leuven
P-135	11575	Preparation of Silicate Molecular Sieves and Zeolite-Like Materials Derived from Rice Husk for Degradation of Water Pollutants and Semi-Quantitative Monitoring of Tetracycline (Tc) in Water	Xiaoyu Cai	Jilin University
P-136	10799	Highly Stable and Selective Pt/TS-1 Catalysts for the Efficient Nonoxidative Dehydrogenation of Propane	Xinqing Lu	Zhejiang Normal University
P-137	11261	The Investigation into the Propane Dehydrogenation to Propylene over Metal@Zeolite Catalysts	Lizhi Wu	Fuzhou University
P-138	11485	Alkaline-Earth Metals Promote Propane Dehydrogenation with Carbon Dioxide Through Geometric Effects: Altering the Reaction Pathway	Luyuan Yang	China University of Petroleum (Beijing)
P-139	11544	Highly Dispersed Pt Species in Protozeolite for Propane Dehydrogenation	Jialiang Li	Jilin University
P-140	11624	Tuning Oxidative Propane Dehydrogenation While Co-converting CO_2 over Vanadium Containing Cha Zeolites	Run Zou	KU Leuven

July 15, 19:00–21:00

P-141	11184	A Zoo of Methane Activating Copper Species in Zeolites	Jing Ma	KU Leuven
P-142	10915	Influence of Reaction Pathway Differences Between Ga and Mo on Individual Benzene and Toluene Selectivity from N-Butane Aromatization over ZSM-5 Catalysts	Gyeongmin Seok	Seoul National University
P-143	10957	Unification of the Precarburizing Agent and Reactant in Non-Oxidative C1-C3 Alkane Aromatization over Mo/ZSM-5 for Enhanced Catalytic Performance and Process Efficiency	Kyoungmin Kim	Seoul National University
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