

EMN Meeting on Metal-Organic Frameworks

June 12 to 16, 2016

Grand Regency Hotel, China

Monday Jun. 13**Session: Keynote**

9:00-9:30AM	01: Electrical Conductive MOFs	Hiroshi Kitagawa Kyoto University, Japan
9:30-10:00AM	02: Advanced Physical Adsorbents for Environment and Energy Related Applications. Are Metal-Organic Frameworks Becoming the New Benchmark Materials?	Youssef Belmabkhout King Abdullah University of Science and Technology, Saudi Arabia
10:00-10:15AM	Session Break	
Session: General I Chair: Hiroshi Kitagawa		
10:15-10:40AM	03: Metal-Organic Frameworks Based on Formamidinate ligands: Structural Transformation and Photoluminescence	Jhy-Der Chen Chung Yuan Christian University, Taiwan
10:40-11:05AM	04: Computational Chemical Study on Catalytic Role of Metal-Organic Framework	Michihisa Koyama Kyushu University, Japan
11:05—11:30AM	05: MOFs for Enzyme Immobilization	Chia-Her Lin Chung Yuan Christian University, Taiwan
11:30-11:55AM	06: Cation-Doped Metal-Organic Coordination Polymer: Towards Mixed Valency and Cation Vacancy System	Arief C. Wibowo University of Malaya, Malaysia
11:55AM-13:35PM	Lunch Breakfast	
Session: Catalysis I Chair: Michihisa Koyama		
13:35-14:00PM	07: Olefin metathesis@MOFs: simple and robust immobilization of tagged catalysts inside (Al)MIL-101-NH ₂	Michal Chmielewski University of Warsaw, Poland
14:00-14:25PM	08: Development of liquid-phase selective oxidation systems based on inorganic metal oxide catalysts	Keigo Kamata Tokyo Institute of Technology, Japan
14:25 -14:50PM	09: A Metal-Organic Framework (MOF199) Catalyzed Synthesis of Disulfides and Diselenides from Aryl Halides	Mohammad Soleiman-Beigi Ilam University, Iran
14:50 -15:15PM	10: Enzyme-incorporated metal-organic frameworks for biocatalysis	Jun Ge Tsinghua University, China
15:15-15:40PM	11: Catalytic Silver Decorated Metal Organic Framework Nanocomposite Membrane Reactors for Pesticide Remediation	Ludovic Dumeé Deakin University, Australia

15:40-15:55PM	Session Break	
Session: General II Chair: Guillaume Maurin		
15:55-16:20PM	12: Iodine Inclusion and Post-synthetic Modification on Metal-Organic Framework	Minghua Zeng Guangxi Normal University, China
16:20-16:45PM	13: Metal-organic frameworks as low dielectric materials	Kuang-Lieh Lu Institute of Chemistry, Academia Sinica, Taiwan
16:45-17:10PM	14: Ultra sensitive fiber optic water sensor by means of metal organic frameworks sensing layer	Shin-Ichi Ohira Kumamoto University, Japan
17:10-17:35PM	15: MOF thin films: the quest for their growth control and integration into applications	Osama Shekhah King Abdullah University of Science and Technology, Saudi Arabia
18:00PM	Dinner Social	

Tuesday Jun. 14

Session: Structuring of MOFs I Chair: Dirk Volkmer

8:55-9:20AM	16: Tuning Morphologies of Metal-Organic Frameworks via Controlled Synthesis	Guang Lu Soochow University, China
9:20-9:45AM	17: Shaping MOFs for application	Richard Blom SINTEF, Norway
9:45-10:10AM	18: Building Nanostructures of Semiconducting Materials by Coordination Assembly	Kenji Hirai Hokkaido University, Japan
10:10-10:25AM	Session Break	
Session: General III Chair: Francis Verpoort		
10:25 -10:50AM	19:Modelling MOFs: from structure to performance	Guillaume Maurin University Montpellier, France
10:50-11:15AM	20: Elastic/anelastic properties and acoustic dissipation related to ferroelastic/ferroelectric/ferromagnetic transitions in metal-organic frameworks	Zhiying Zhang Wuhan University of Technology, China
11:15-11:40AM	21: Amino Acid Based Metal Organic Frameworks for Catalytic Conversion of Carbon Dioxide	Daewon Park Pusan National University, Korea
11:40AM-12:05PM	22: Long-afterglow metal–organic frameworks: assembly and property	Dongpeng Yan Beijing Normal University, China
12:05-13:35PM	Lunch Break	
Session: MOFs for Energy Conversion Chair: Guang Lu		
13:35-14:00PM	23: Exploring the potential of metal-organic framework thin film for solar cells	Jinxuan Liu Dalian University of Technology, China
14:00-14:25PM	24: Molecular ionics in supramolecular assemblies with ion conduction paths containing lithium ions	Makoto Moriya Shizuoka University, Japan
14:25 -14:50PM	25: Exploration of MOFs as proton conductors	Sabine Devautour-Vinot University Montpellier, France
14:50 -15:15PM	26: Mesoporous chromium(III) oxoterephatale as a platform for new materials with proton conducting properties and photocatalytic activity	Konstantin Kovalenko Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry SB RAS, Russia

15:15-15:40PM	27: Bio-inspired Metal Organic Frameworks for clean catalysis	Alexandra Fateeva Université Claude Bernard Lyon 1, France
15:40-15:55PM	Session Break	
Session: Poster		
Session: Structuring of MOFs II Chair: Guang Lu		
16:50-17:15PM	28: Structural Aspect of Spin Crossover Hofmann-like Metal-Organic Frameworks	Takafumi Kitazawa Toho University, Japan
17:15-17:35PM	29: Synthesis of functionalized MOF nanoparticles	Stefan Wuttke Ludwig-Maximilians Universität München, Germany
17:45PM	Group Photo	
18:00PM	Dinner Social	

Wednesday Jun. 15

Session: Single-Crystal-to-Single-Crystal Transformation Chair: Michal Chmielewski

8:55-9:20AM	30: In situ NMR spectroscopic studies of the switching behaviour in flexible MOFs	Eike Brunner TU Dresden, Germany
9:20-9:45AM	31: Thermally-promoted post-synthetic reactions for single-crystal-to-single-crystal transformations in metal-organic frameworks	Christopher Richardson University of Wollongong, Australia
9:45-10:10AM	32: Structural modulation and deformation of the MIL-47 and MIL-53 porous frameworks	Xiqu Wang University of Houston, USA
10:10-10:25AM	Session Break	
Session: Catalysis II Chair: Eike Brunner		
10:25 -10:50AM	33: Defect creation via synthesis procedure in metal-organic frameworks	Francis Verpoort Wuhan University of Technology, China/Ghent University, Belgium
10:50-11:15AM	34: Functional MFU-4-type Metal-Organic Frameworks comprising open metal sites	Dirk Volkmer University of Augsburg, Germany
11:15-11:40AM	35: Catalytic application of novel metal-organic frameworks and coordination polymers	Ana Rosa Silva University of Aveiro, Portugal
11:40AM-12:05PM	36: Hybrid Nanoporous Composites between Zeolite and MOFs - Unprecedented Single Platform for Catalytic Reaction	Yong Nam Choi Korea Atomic Energy Research Institute, Korea
12:05-13:35PM	Lunch Break	
Session: General IV Chair: Shin-Ichi Ohira		
13:35-14:00PM	37: Covalent organic polymers for energy storage and conversion	Zhonghua Xiang Beijing University of Chemical Technology, China
14:00 -14:25PM	38: Reduction-Induced Highly Selective Uptake of Cesium Ion by Porous Ionic Crystals	Sayaka Uchida The University of Tokyo, Japan
14:25 -14:50 PM	39: Facile Preparation of Metal-Organic Framework Composites Directly Contacting with Metal Nanoparticles through Arc Plasma Deposition and Their Catalytic Properties	Masaaki Sadakiyo Kyushu University, Japan
14:50-15:15PM	40: Node Chemistry in Metal-Organic Framework Materials: Elucidation and Utilization of Metal Node in MOFs	Nak Cheon Jeong Daegu Gyeongbuk Institute of Science and Technology, Korea

15:15-15:30PM	Session Break	
Session: Modelling of MOFs Chair: Shin-ichiro Noro		
15:30-15:55PM	41: Molecular dynamics studies of selective adsorption by gate-opening phenomena in metal-organic frameworks	German Sastre Universidad Politecnica de Valencia, Spain
15:55-16:20PM	42: Novel condensation transitions of methane in IRMOF-1, IRMOF-8 and IRMOF-16: A computer simulation study	Nicolas Hoefft Heinrich-Heine-Universität Düsseldorf, Germany
Session: MOFs for Gas Separation and Storage Chair: Minghua Zeng		
16:20-16:45PM	43: MOFs/PCPs Modified with Fluorinated Anions for Gas Separation	Shin-ichiro Noro Hokkaido University, Japan
16:45-17:10PM	44: Exploring metal-organic frameworks for small molecule separations	Wendy Lee Queen Ecole Polytechnique Fédérale de Lausanne, Switzerland
17:10-17:35PM	45: Inorganic buffer layer-assisted fabrication of ZIF membranes for gas separation application	Yi Liu Kyoto University, Japan
18:00PM	Dinner Social	

Poster Session

Tuesday, June 14th 15:55pm – 16:40pm

P-01	Stepwise Chemical Activation of Open-Metal Sites in Copper-Based Metal-Organic Framework HKUST-1	Jinhee Bae Daegu Gyeongbuk Institute of Science and Technology, Korea
P-02	A Facile Fabrication of HKUST-1 Film on Copper Substrate	Hoon Ji Daegu Gyeongbuk Institute of Science and Technology, Korea
P-03	A Chemical Route to Activation of Open Metal Site in HKUST-1	Jeungyoon Kim Daegu Gyeongbuk Institute of Science and Technology, Korea
P-04	Synthesis, Structure and Adsorption Properties of Stable Porous Copper Complex with Fluorinated Anions	Yukiko Takahashi Hokkaido University, Japan
P-05	Flexible porous metal complexes with bulky fluorinated anions: synthesis, crystal structures and adsorption properties	Xin Zheng Hokkaido University, Japan
P-06	Synthesis of enzyme-metal - organic frameworks (MOFs) in aqueous solution	Miao Hou Tsinghua University, China
P-07	Facile Synthesis of Multiple Enzyme-Contained Metal-Organic Framework Nanocrystals in Biomolecule-Friendly Environment	Xiaoling Wu Tsinghua University, China
P-08	Facile synthesis of Ti-containing metal-organic framework UiO-66 with enhanced adsorption capacity for Congo red dye from water	Yitong Han Dalian University of Technology, China
P-09	Size and morphology control of NH ₂ -MIL-125(Ti) for photocatalysis	Shen Hu Dalian University of Technology, China
P-10	Controlled Synthesis of Mixed-Valent Fe-Containing Metal Organic Framework for Degradation of Phenol under Mild Conditions	Qiao Sun Dalian University of Technology, China
P-11	An Effect of Water in the Efficient Medium for the Synthesis of Cyclic Carbonate from Epoxides and CO ₂	Yunjang Gu Pusan National University, Korea
P-12	Porous copper nanocubes from waste complex catalyst	Liliana Cseh Zhejiang-Sci-Tech University, China