

# 2023 MOF/COF-Taiwan Conference

## 2023 金屬有機骨架/共價有機骨架研討會

時間: 2023.04.08 (六) ~04.09 (日)

地點: 中山大學西子樓校友會館, 三樓中信造船廳

費用: 一般人士 (5000元), 學生 (1500元)



**Chair**

**Prof. Shiao-Wei Kuo**  
National Sun Yat-set University,  
Taiwan



**Chair**

**Prof. Kevin C.-W. Wu**  
National Taiwan University,  
Taiwan



**Chair**

**Prof. Chung-Wei Kung**  
National Cheng Kung University,  
Taiwan



**Chair**

**Prof. Li-Hsien Yeh**  
National Taiwan University of  
Science and Technology, Taiwan



**Inorganic nanomaterials**

**Prof. Yusuke Yamauchi**  
The University of Queensland,  
Australia



**Design and synthesis of novel porous  
materials for proton conductivity**

**Prof. Minyoung Yoon**  
Kyungpook National University,  
Republic of Korea



**coordination chemistry,  
photocatalysis, electrocatalysis,  
porous materials**

**Prof. Hiroyasu TABE**  
Kyoto University, Japan



**Control of MOF orientation,  
directed and self-assembly,  
colloidal materials**

**Prof. Jia Min Chin**  
University of Vienna, Austria



**Nanomaterials, Organic functional  
materials, Inorganic and coordination  
chemistry**

**Prof. Shuhei Furukawa**  
Kyoto University, Japan



**Inorganic membranes (ceramic,  
carbon nanotubes, metal-organic  
frameworks)**

**Prof. Yingchao Dong**  
Dalian University of Technology,  
China

主辦單位:



國立中山大學材料與光電科學學系



台灣大學化學工程系



國家衛生研究院生醫工程與  
奈米醫學研究所

贊助單位:



CENTER OF  
CRYSTAL RESEARCH

國立中山大學晶體研究  
中心 教育部

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## 2023 金屬有機骨架/共價有機骨架研討會

April 7-9, 2023

Alumni Service Center 3<sup>rd</sup> Floor, Jong Shyn Hall, NSYSU

中山大學西子樓校友會館三樓中信造船廳

### Friday, April 7, 2023

18:00~20:00 **Welcome Party (Sunset Beach Resort, 西子灣沙灘會館)**

### Saturday, April 8, 2023

8:00~9:00 **Register**

09:00~09:10 **Welcoming Remarks**  
**Prof. Chia-Wen (Kevin) Wu (NTU)**  
**Prof. Shiao-Wei Kuo (NSYSU)**

09:10~9:40 **Session Chair:**  
**Prof. Shiao-Wei Kuo (NSYSU)**  
**Prof. Yusuke Yamauchi (UQ, Australia)**  
Materials Space-Tectonics: A Conceptual Paradigm for  
Creating Second-Generation Porous Materials

9:40~10:10 **Prof. Cheng-Yu Wang (NYCU)**  
Hydride Confined in Modified MOFs/ZIFs for Hydrogen  
Generation

10:10~10:40 **Group Photo & Coffee Break**

10:40~11:10 **Session Chair:**  
**Prof. Li-Hsien Yeh (NTUST)**  
**Prof. Chia-Her Lin (NTNU)**  
Investigation of the structural transformation of 2,6-NDC-  
based MOFs

11:10~11:40 **Prof. Fa-Kuen Shieh (NCU)**  
Insights into MOF Chemical Biology

11:40~12:10 **Prof. Ahmed Fikry Mohamed EL-Mahdy Admed (NSYSU)**  
Hollow Spherical and tubular Covalent Organic Frameworks:  
Design Principles, Synthetic Strategies, and Diverse  
Applications

12:10~13:30 **Lunch (Buffet)**

13:30~14:00 **Session Chair:**  
**Prof. Chia-Wen (Kevin) Wu (NTU)**  
**Prof. Dun-Yen Kang (NTU)**  
MOF Membranes for Molecular Separations

14:00~14:30 **Prof. Jia Min Chin (Univie, Austria)**  
Controlling MOF materials across multiple length scales

14:30~15:00 **Prof. Teng-Hao Chen (NCKU)**  
Quinone-based Functional Metal–Organic Frameworks for  
Energy Storage and CO<sub>2</sub> Capture

15:00~15:30 **Coffee Break**

15:30~16:00 **Session Chair:**  
**Prof. Chung-Wei Kung (NCKU)**  
**Prof. Minyoung Yoon (KNU, Korea)**  
Accommodation of Guest Molecules in Metal–Organic  
Framework for Catalysis and Separation

16:00~16:30		<b>Prof. Jing-Yun Wu</b> (NCNU) Structure and Sensing Applications of Engineering Tailored Multifunctional Fluorescent Pillared-Layer Frameworks
16:30~17:00		<b>Prof. Li-Chiang Lin</b> (NTU) Computational Design and Discovery of Nanoporous Materials for Water Harvesting
17:30~20:00	<b>Dinner (Port-Kitchen, 波特廚房)</b>	
<b>Sunday, April 9, 2023</b>		
09:00~09:30	<b>Session Chair: Prof. Chia-Chin Chen (NTU)</b>	<b>Prof. Hiroyasu TABE</b> (Kyoto, Japan) Synergistic Effect of Two Open Metal Sites in Cyano-bridged Coordination Polymers for Benzene Oxygenation to Phenol
09:30~10:00		<b>Prof. Yi-Tsu Chan</b> (NTU) Molecular Self-Assembly for Construction of Porous Materials
10:00~10:30		<b>Prof. Yi-Pei Li</b> (NTU) Shape selectivity of single-site metal-organic framework catalysts in the hydrogenolysis and hydrodeoxygenation of furfuryl alcohol
10:30~10:50	<b>Coffee Break</b>	
10:50~11:20	<b>Session Chair: Prof. Che-Chia Hu (NTUST)</b>	<b>Prof. Shuhei Furukawa</b> (Kyoto University) Assembling metal-organic cages as porous materials
11:20~11:50		<b>Prof. Kun-Han Lin</b> (NTHU) Computational Design of Organic Materials in Optoelectronic Applications
11:50~12:20		<b>Prof. Yingchao Dong</b> (Dalian UT) Robust MOF Membranes for Water Treatment Applications
12:20~	<b>Close Remark/Lunch</b>	