

Symposium on Emerging Catalytic Materials for Net-Zero Technologies

Host: Catalysis and Reaction Engineering Division

Busan BEXCO

2026. 10. 7.(Wed), 14:30~17:30

Chair: Hyun-Seog Roh, Yonsei Univ.

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|-------|---|---------------------------|
| 14:30 | Catalyst design by considering transport limitation | Hyunjoo Lee, KAIST |
| 14:50 | Efficiently converting syngas to liquid fuels with reduced CO ₂ emission | Mingyue Ding, Wuhan Univ. |
| 15:20 | Catalytic CO ₂ hydrogenation for SAF production | Kwangjin An, UNIST |
| 15:40 | Construction of efficient Fischer Tropsch synthesis catalysts for selectivity control | Xingang Li, Tianjin Univ. |
| 16:10 | coffee break | |

Chair: Kwangjin An, UNIST

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| 16:20 | Target-oriented water gas shift reactions with diverse resource utilization | Hyun-Seog Roh, Yonsei Univ. |
| 16:40 | Cu ₁ -O ₃ species in single-atom Cu/ZrO ₂ catalyst for CO ₂ hydrogenation | Li Tan, Fuzhou Univ. |
| 17:10 | Electric field-driven reactive CO ₂ capture and conversion | Jeong Gil Seo, HYU |

Invited Speaker



Hyunjoo Lee, KAIST
2005 PhD, Chem. Eng. Caltech
2007 Postdoc, UC Berkeley and Lawrence Berkeley Nat'l Lab
Present Prof., Chem. Biomol. Eng., KAIST



Mingyue Ding, Wuhan Univ.
2009 PhD, Industrial Catalysis, Chinese Academy of Sciences, Shanxi Institute of Coal Chemistry
2016 Res., CAS Guangzhou Inst. of Energy Conversion
Present Prof., Power and Mech. Eng., Wuhan Univ.



Xingang Li, Tianjin Univ.
2003 PhD, Chem./Chem. Phys., Univ. of Sci. and Tech. of China
2005 Postdoc, IRCE Lyon Institute, French Nat'l Centre for Scientific Research
Present Prof., Chem. Eng., Tianjin Univ.



Li Tan, Fuzhou Univ.
2018 PhD, Eng., Univ. of Toyama
2023 Assoc. Prof., Chemistry, Fuzhou Univ.
Present Prof., Chem., Fuzhou Univ.



Jeong Gil Seo, HYU
2011 PhD, Chem. & Bio. Eng., Seoul Nat'l Univ.
2012 R&D Staff, Energy Lab, SAIT, Samsung Electronics
Present Prof., Chem. Eng., Hanyang Univ.

Organizer/Chair/Speaker



Kwangjin An, UNIST
2009 PhD, Chem. & Bio. Eng., Seoul Nat'l Univ.
2015 Postdoc, Univ. of California at Berkeley
Present Prof., Energy and Chem. Eng., UNIST



Hyun-Seog Roh, Yonsei Univ.
2001 PhD, Chem. Eng., Yonsei Univ.
2006 Postdoc, Pacific Northwest National Lab. (PNNL)
2008 Senior Researcher, KRIST
Present Prof., Environ. & Energy Eng., Yonsei Univ.