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Education:

PhD(2006/09~2011/06) Chemical Engineering, National Taiwan University of Science and
Technology, Taiwan

M.S.(2004/09~2006/07) Chemical and Materials Engineering, Tamkang University, Taiwan

B.S. (2000/09~2004/06) Chemical and Materials Engineering, Tamkang University, Taiwan

Experience:

Postdoc (2011/07~2011/10) Chemical Engineering, National Taiwan University of Science and
Technology, Taiwan

Researcher (2012/05~2018/05) Green Energy and Environment Research Laboratories, Industrial
Technology Research Institute, Taiwan

Senior Researcher (2018/05~Present), Green Energy and Environment Research Laboratories,
Industrial Technology Research Institute, Taiwan

Project Manager (2019/01~2019/12) Green Energy and Environment Research Laboratories,
Industrial Technology Research Institute, Taiwan

Deputy Manager (2023/12~Present) Green Energy and Environment Research Laboratories,
Industrial Technology Research Institute, Taiwan

Selective Honors & Awards:

1. The Phi Tau Phi Scholastic Honor Society of the Republic of China Honorary Membership (2011)
2. Outstanding Research Award-Gold Medal, Industrial Technology Research Institute (2014)
3. R&D 100 Awards (2014)
4. Outstanding Young Engineer Award, Chinese Institute of Engineers (2021)
5. Outstanding Young Person Award, China Youth Corps (2024)

Research Areas:

Solid-liquid separation processes, Advanced oxidation processes (AOPs), Chemical looping technologies, Metal-organic framework (MOF) synthesis, shaping and applications.

Selective Publications:

1. "Chapter 13 Calcium looping process for CO₂ capture," In: R.W. Breault (Eds.) Handbook of Chemical Looping Technology, John Wiley & Sons, Inc, New York (2017)
2. "Effects of Steam Presence during Calcination on Carbonation Behavior in Multiple Calcination/Carbonation Reaction," *Chem. Eng. Technol.*, 41(2018) 1921-1927.
3. "High-performance interfacial solar steam generation enabled by synergistic integration of MXene, bentonite, and MOF-303," *Sep. Purif. Technol.*, 378 (2025) 134490-134503.
4. "Granule formation and mechanical behavior of MOF adsorbents via extrusion–spheronization: Role of moisture content and spheronizer load," *Powder Technol.*, 468 (2026) 121584-121602.