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Doctor of Philosophy

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Education:

Ph.D. (2007/09~2013/06) Chemistry, National Taiwan University, Taiwan

B.S. (2003/09~2007/06) Applied Chemistry, National Chiao Tung University, Taiwan

Experience:

(2020/08~Present) Assistant Professor, Department of Chemistry, National Changhua University of Education

(2018/04~2019/10) Post-doctoral Scholar, Department of Chemical Engineering, Stanford University

(2015/10~2018/02) Post-doctoral Scholar, Institute of Industrial Science, The University of Tokyo

(2014/12~2015/09) Post-doctoral Scholar, Center for Condensed Matter Sciences, National Taiwan University

Research Areas:

Material chemistry, interfacial chemistry, and heterogenous catalysis

Synthesis and characterization of inorganic nanocrystals and mesoporous materials

Development of plasmonic nanostructures for solar-energy conversion

Selective Publications:

1. “Supported gold nanoparticles for visible-light photocatalytic H₂O₂ production: Tailoring the metal-support interface through thermal annealing” (2025), *J. Taiwan Inst. Chem. Eng.*, in press.
2. “Supported Au nanoparticles on TiO₂ for visible light photocatalytic H₂O₂ production: Effects of Au particle size and density” (2024), *ACS Appl. Nano Mater.*, 7, 218-229.
3. “A general approach for Monolayer Adsorption of High Weight Loadings of Uniform Nanocrystals on Oxide Supports” (2021), *Angew. Chem. Int. Ed.*, 60, 7971-7979.
4. “Visible-light-driven plasmonic photocatalysis enhanced by charge accumulation” (2019), *ChemNanoMat*, 5, 1-8.
5. “Effects of particle size and annealing on plasmon-induced charge separation at self-assembled gold nanoparticle arrays” (2018), *Phys. Chem. Chem. Phys.*, 20, 3735-3740.