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Doctor of Engineering

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Education:

Ph.D. (2008/8~2012/6) Institute of Environmental Engineering, National Chiao Tung University, Taiwan

M.E. (2006/8~2008/7) Institute of Environmental Engineering, National Chiao Tung University, Taiwan

B.S. (2002/10~2006/6) Department of Civil Engineering, National Central University, Taiwan

Experience:

(2023/8-now) Associate Professor, Institute of Environmental Engineering, NYCU, Taiwan

(2019/8-2023/7) Assistant Professor, Institute of Environmental Engineering, NYCU, Taiwan

Research Areas:

Environmental catalysis

Air Pollution Control Technologies

Selective Publications:

1. “Redox-induced engineering of amorphous/crystalline MnFeO_x catalyst enables $\text{H}_2\text{O}/\text{SO}_2$ -tolerant NO_x abatement at ultra-low temperatures”, *J. Hazard. Mater.*, (2025) 137618
2. “Highly active and stable VO_x/TiO_2 nanosheets for low-temperature NH_3 -SCR of NO: Structure-directing role of support”, *Chem. Eng. J.*, (2024) 149637
3. “Atomically dispersed Ti-O clusters anchored on $\text{NH}_2\text{-UiO-66 (Zr)}$ as efficient and deactivation-resistant photocatalyst for abatement of gaseous toluene under visible light”, *J. Colloid. Interface. Sci.*, (2023) 323-335
4. “Efficient Visible and NIR Light-Driven Photocatalytic CO_2 Reduction over Defect-Engineered $\text{ZnO}/\text{Carbon Dot Hybrid}$ and Mechanistic Insights”, *J. Catal.*, (2020) 298-311
5. “Engineering stable Pt nanoparticles and oxygen vacancies on defective TiO_2 via introducing strong electronic metal-support interaction for efficient CO_2 photoreduction”, *Chem. Eng. J.*, (2020) 123450