



## Chang-Ming Jiang

Doctor of Philosophy

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### Education:

Ph.D. (2009/8~2015/8) Department of Chemistry, University of California, Berkeley, U.S.A.

B.S. (2003/8~2007/6) Department of Chemistry, National Taiwan University, Taiwan

### Experience:

(2021/8-now) Assistant Professor, Department of Chemistry, NTU, Taiwan

(2018/5-2021/7) Postdoctoral Researcher, Walter Schottky Institute, TUM, Germany

(2016/1-2018/4) Postdoctoral Researcher, Lawrence Berkeley National Laboratory, U.S.A.

### Selective Honors & Awards:

2024- Best Article Award of *Hua Xue*, Chemistry Society of Taiwan

2024- Distinguished Teaching Award, NTU

2023- Outstanding Teaching Award, NTU

### Research Areas:

Time-resolved spectroscopy

Photoelectrocatalysis & electrocatalysis

Functional metal oxides & nitrides

### Selective Publications:

1. “Mitigating Redox Mediator-Induced Surface Recombination for Efficient Photoelectrocatalytic Alcohol Oxidation on Mo-Doped Bismuth Vanadate”, *Sustain. Energy & Fuels*, (2026) in press.
2. “Efficient Ta<sub>3</sub>N<sub>5</sub> Photoanodes via Interface Engineering of Bixbyite-Type Ta<sub>3</sub>N<sub>5</sub> Precursors”, *Small*, 21 (2025) e05487.
3. “Collective Motion of Methylammonium Cations Affects Phase Transitions and Self-Trapped Exciton Emission in A-Site Engineered MAPbI<sub>3</sub> Films”, *Nanoscale Adv.*, 7 (2025) 5580-5588.
4. “Hydrogen Plasma Treatment Compensates for the Intrinsic Defects in Cs<sub>3</sub>AgBiBr<sub>6</sub> Thin Films”, *J. Phys. Chem. C*, 128 (2024) 20441-20450.
5. “Elucidating the Epitaxial Growth Mechanisms of Solution-Derived BiVO<sub>4</sub> Thin Films Utilizing Rapid Thermal Annealing”, *ACS Appl. Electron. Mater.*, 6 (2024) 1872-1885.