

Michael H. Huang

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Education

1994 – 1999 Ph. D. University of California at Los Angeles (Chemistry & Biochemistry)
1990 – 1994 B. S. Queens College (Chemistry & Biochemistry)

Professional Career

2022 – Present Tsing Hua Chair Professor, Dpt. Chemistry, National Tsing Hua University
2018 – 2022 Distinguished Professor, Dpt. Chemistry, National Tsing Hua University
2010 – 2018 Professor, Dpt. Chemistry, National Tsing Hua University
2006 – 2010 Associate Professor, Dpt. Chemistry, National Tsing Hua University
2002 – 2006 Assistant Professor, Dpt. Chemistry, National Tsing Hua University
1999 – 2002 Post-doctoral researcher, UC Berkeley and UCLA, USA

Selected Publications

1. B.-H. Chen, G. Kumar, Y.-J. Wei, H.-H. Ma, J.-C. Kao, P.-J. Chou, Y.-C. Chuang, I.-C. Chen, J.-P. Chou, Y.-C. Lo, M. H. Huang*, Experimental Revelation of Surface and Bulk Lattices in Faceted Cu₂O Crystals, *Small* 2023, 19, 2303491.
2. Z.-H. Su, M.-H. Hsieh, Z.-L. Chen, W.-T. Dai, E.-T. Dai, M. H. Huang*, Aqueous Phase Photocatalytic Hydroxylation of Arylboronic Acids Using Polyhedral Cu₂O Crystals, *Chem. Mater.* 2023, 35, 2782-2789.
3. Z.-L. Chen, M. H. Huang*, Photocatalytic Oxidative Amine Coupling Using Polyhedral SrTiO₃ Crystals, *J. Mater. Chem. A* 2023, 11, 22198-22205.
4. E.-T. Wu, M. H. Huang*, Photocatalytic Oxidative Amine Coupling with 4-Nitrophenylacetylene-Modified Cu₂O Crystals, *ACS Catal.* 2023, 13, 14746-14752.
5. G.-R. Wang, M. H. Huang*, Photocatalytic Oxidative Cyclization of Aromatic Thioamides Catalyzed by Cu₂O Rhombic Dodecahedra, *J. Mater. Chem. A* 2024, 12, 13792-13799.

Research Interests

1. Synthesis of Semiconductor Polyhedral Nanocrystals.
2. Demonstrations of Various Semiconductor Facet Effects.
3. Structural Elucidation of the Emergence of Semiconductor Facet-Dependent Behaviors.

Awards

1. NTHU – Chichen Chen Distinguished Talent Chair 2024
2. C. T. Ho Outstanding Honor Award, Basic Science – Math/Science Category 2022
3. The 19th Y. Z. Hsu Scientific Chair Professor, Y. Z. Hsu Science and Technology Memorial Foundation, 2021
4. Outstanding Research Award, Ministry of Science and Technology, Taiwan, 2020
5. Outstanding Scholar Award from the Foundation for the Advancement of Outstanding Scholarship 2015