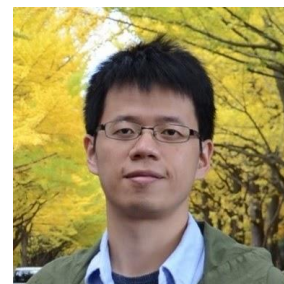


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### Education

- 2009 – 2013 Ph. D. Hokkaido University, Japan.  
2006 – 2008 M. S. National Central University, Taiwan.  
2002 – 2006 B. S. National Central University, Taiwan.

### Professional Career

- 2022.08 – Present Associate Research Fellow, Center for Condensed Matter Sciences, National Taiwan University, Taiwan.  
2023.08 – Present Joint Associate Professor, Dpt. of Chemistry, National Taiwan University, Taiwan.  
2022.08 – Present Joint Associate Research Scientist, National Synchrotron Radiation Research Center, Taiwan.  
2016.12 – 2022.07 Assistant Research Fellow, Center for Condensed Matter Sciences, National Taiwan University, Taiwan.  
2013.07 – 2016.11 Postdoctoral Researcher, Dpt. of Chemistry, University of Illinois at Urbana-Champaign, USA.

### Selected Publications

1. T. T. Mamo, M. Qorbani\*, A. G. Hailemariam, R. Putikam, C.-M. Chu, T.-R. Ko, A. Sabbah, C.-Y. Huang, S. Kholimatussadiah, T. Billo, M. K. Hussien, S.-Y. Chang, M.-C. Lin, W.-Y. Woon, H.-L. Wu\*, K.-T. Wong, L.-C. Chen\*, K.-H. Chen\*, Enhanced CO<sub>2</sub> photoreduction to CH<sub>4</sub> via\* COOH and\* CHO intermediates stabilization by synergistic effect of implanted P and S vacancy in thin-film SnS<sub>2</sub>. *Nano Energy*, 2024, 128, 109863.
2. K. B. Ibrahim\*, T. A. Shifa, M. Bordin, E. Moretti, H.-L. Wu\*, A. Vomiero\*, Confinement Accelerates Water Oxidation Catalysis: Evidence from in-situ studies. *Small Methods*, 2023, 7, 2300348.
3. H.-L. Yu, K. B. Ibrahim, P.-W. Chi, Y.-H. Su, W.-T. Chen, S.-C. Tseng, M.-T. Tang, C.-L. Chen, H.-Y. Tang, C.-W. Pao, K.-H. Chen, M.-K. Wu\*, H.-L. Wu\*, Modulating the voltage decay and cationic redox kinetics of Li-rich cathodes via controlling the local electronic structure. *Advanced Functional Materials*, 2022, 32, 2112394.
4. T.-C. Chou, C.-C. Chang, H.-L. Yu, W.-Y. Yu, C.-L. Dong, Juan-Jesús Velasco-Vélez, C.-H. Chuang, L.-C. Chen, J.-F. Lee, J.-M. Chen, H.-L. Wu\*, Controlling the Oxidation State of the Cu Electrode and Reaction Intermediates for Electrochemical CO<sub>2</sub> Reduction to Ethylene. *Journal of the American Chemical Society*, 2020, 142, 6, 2857–2867

### Research Interests

1. Vibrational spectroscopy: surface-enhanced infrared and Raman spectroscopy.
2. Photocatalytic/electrocatalytic reactions.
3. Energy storage systems: advanced secondary batteries.