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Education:

PhD (2012/9~2016/4) Department of Chemistry, National Taiwan Normal University, Taiwan

M.S (2009/9~2011/4) Department of Chemistry, National Taiwan Normal University, Taiwan

B.S. (2004/9~2008/6) Department of Applied Chemistry, National University of Kaohsiung, Taiwan

Experience:

Guest Researcher, (2018-2020), National Institute for Materials Science, Tsukuba, Japan.

Post-Doctoral Research Fellow, (2016-2020). National Taiwan University of Science & Technology, Taipei, Taiwan at Dept. of Chem. Eng.

Research Areas:

First Principles Computational Materials Calculation; Catalysis; Hydrogen Energy Generation.

Selective Publications:

1. Jia-Yi Lin, Chia-Ying Wu, **Chen-Hao Yeh***. Theoretical investigation to explore $\text{PdS}_n\text{Se}_{2-n}/\text{PdPSe}$ ($n = 0, 1, 2$) heterostructures as advanced photocatalysts for water splitting applications. *Applied Surface Science*, **2025**, 695, 162899.
2. Yi-Lin Lu, Chun-Chieh Lin, Pei-Hsuan Cho, Fu-Heng Chen, Chia-Cheng Lee, **Chen-Hao Yeh*** Ultrahigh Carrier Mobility and Enhanced Photocatalytic Activity in 2D $\text{GaSe}/\text{ZrTeS}_4$ Heterostructures for Solar Water Splitting: A DFT Study. *ACS Applied Energy Materials*, **2025**, 8, 14856-14867.
3. Wei-Chung Pan, Cheng-Hung Luo, Wen-Ling Lin, Liu-Chun Wang, Divinah Manoharan, Po-Ya Chang, Hwo-Shuenn Sheu*, **Chen-Hao Yeh***, Chia-Jui Yen*, Chen-Sheng Yeh*. Enhanced Catalytic Cycle of Glucose Oxidation and Reactive Species with ROS and RNS Generation Mediated by Galvanic Engineering of Dual Atomic Sites on Covalent Organic Frameworks Demonstrating Synergistic Bimetal Tumor Treatment. *Advanced Science*, **2025**, 12, e00515.
4. Yu-Tang Chen, **Chen-Hao Yeh***. Investigation of novel two-dimensional B_2CO monolayer and its high sensing performance in detecting nitrogen-containing gases: A combined density functional theory calculation and non-equilibrium Green's function study. *Sensors and Actuators A: Physical*, **2024**, 369, 115179.