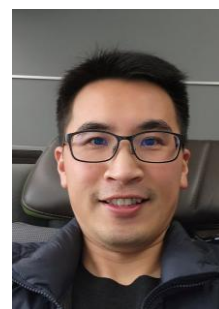


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Education

2005 – 2009 Ph. D. Case Western Reserve University, US (Chemical Engineering)

1999 – 2003 B. S. National Taiwan University, Taiwan (Chemical Engineering)

Professional Career

2022.02 – Present Professor, Dpt. Chem. Eng., NTUST

2017.02 – 2022.02 Associate Professor, Dpt. Chem. Eng., NTUST

2013.08 – 2017.02 Assistant Professor, Dpt. Chem. Eng., NTUST

2011.07 – 2013.07 Industrial Technology Research Institute (ITRI), Taiwan

2010.03 – 2011.03 Post-doctoral researcher, National Institute of Advanced Industrial Science and Technology (AIST), Japan

Selected Publications

1. Y.-J. Yeh, S.-Y. Chen, W. W.-W. Hsiao, Y. Oshima, M. Takahashi, S. Maenosono, K.-L. Tung, and W.-H. Chiang*, Single-Molecule-Sensitive Three-Dimensional Atomic Heterostructures with Extreme Light-Matter Coupling, *J. Am. Chem. Soc.*, 2025, 147, 10, 8227–8239. Featured as the Front Cover
2. C.-H. Lin, Y.-J. Yeh, T.-H. Chien, S.-Y. Chen, L. Veeramuthu, C.-C. Kuo, K.-L. Tung, and W.-H. Chiang*, Compact Disc-Derived Nanocarbon-Supported Catalysts with Extreme Degradation Activity, *ACS Appl. Mater. Interfaces.*, 2025, 17, 5, 8147–8157.
3. D. Kurniawan, Z. Xia, L. Dai, K. Ostrikov, W.-H. Chiang*, Zero-dimensional nano-carbons: synthesis, properties, and applications, *Appl. Phys. Rev.*, 2024, 11, 021311.
4. D. Kurniawan, J. Mathew, M. R. Rahardja, H.-P. Pham, P.-C. Wong, N. V. Rao*, K. Ostrikov, and W.-H. Chiang*, Plasma-enabled Graphene Quantum Dot Hydrogels as Smart Anticancer Drug Nanocarriers, *Small* 2023, 19, 20, 2206813. Featured as the Inside Back Cover
5. Y.-J. Yeh and W.-H. Chiang*, Ag Microplasma-Engineered Nanoassemblies on Cellulose Papers for Surface-Enhanced Raman Scattering and Catalytic Nitrophenol Reduction, *ACS Appl. Nano Mater.*, 2021, 4, 6364–6375

Research Interests

1. Nanomaterials synthesis and applications for sustainable society.
2. Carbon nanotubes, graphene, and nanodiamonds.
3. Plasma science and engineering for optoelectronics, biomedicines and composites.

Awards

1. 2022, NTUST, Taiwan 「Outstanding Research Award」
2. 2021, Ministry of Science and Technology (MOST), Taiwan 「Ta-You Wu Memorial Award」
3. 2017, The Materials Research Society of Japan (MRS-J), 「Young Scientist Award」
4. 2015, Taiwan Institute of Chemical Engineers, Taiwan 「Young Scholar Award」