



Wei-Chih Chen

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Education:

- PhD (2014/7~2019/11) Chemistry, National Taiwan University, Taiwan
M.S. (2009/7~2011/7) Graduate Institute of Engineering, National Taiwan University of Science and Technology, Taiwan
B.S. (2004/9~2009/6) Applied Mathematics, National Chung Hsing University, Taiwan

Experience:

- Asst. Prof. (2023/3~now) Applied Chemistry, Providence University, Taiwan
Postdoc (2021/8~2023/2) National Center for Theoretical Sciences, Physics Division, Taiwan
Postdoc (2019/11~2021/7) Chemistry, National Taiwan University, Taiwan
R.A. (2011/8~2014/7) Institute of Chemistry, Academia Sinica, Taiwan

Selective Honors & Awards:

1. Excellent Class Mentor, Providence University (2024, 2025)
2. Excellent Teacher Award, Providence University (2025)
3. Physical Chemistry Thesis Award – Outstanding, 2021 Chemistry National Meeting

Research Areas:

Computational study of palladium-catalyzed cross-coupling reactions, and charge transport and photochemical processes in organic materials

Selective Publications:

1. “Advanced Pd–NAPA Precatalysts for Broad-Scope Kumada Tamao–Corriu Couplings of Challenging Aryl Chlorides.”, *Asian J. Org. Chem.*, **2025**, 14, 00332.
2. “Highly Efficient and Well-Defined Phosphinous Acid-Ligated Pd(II) Precatalysts for Hirao Cross-Coupling Reaction.”, *Dalton Trans.*, **2023**, 52, 5101-5109.
3. “Rational design of organic semiconductors with low internal reorganization energies for hole and electron transport: position effect of aza-substitution in phenalenyl derivatives.”, *Phys. Chem. Chem. Phys.*, **2021**, 23, 18163-18172.
4. “Charge transport properties of open-shell graphene fragments: a computational study of the phenalenyl tilings.”, *Phys. Chem. Chem. Phys.*, **2021**, 23, 3256-3266.