



## Hong-Kang Tian

Associate Professor

Department of Chemical Engineering,  
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### Education:

2015 – 2019 Ph.D. in Chemical Engineering, Michigan State University

2011 – 2013 M.S. in Chemical Engineering, National Taiwan University

2007 – 2011 B.S. in Chemical Engineering, National Cheng Kung University

### Experience:

2025.02 – Present Associate Professor, Dpt. Chem. Eng., National Cheng Kung University

2021.08 – 2025.02 Assistant Professor, Dpt. Chem. Eng., National Cheng Kung University

2019.12 – 2021.06 Postdoctoral Researcher, National Institute for Materials Science (NIMS), Japan

2018.05 – 2018.09 Research Intern, BASF, USA

### Selective Honors & Awards:

- 2025 Emerging Investigators by *Chemical Communications*.
- 2025 LCY Outstanding Junior Professor Award by TwIChE
- 2025 NSTC 2030 Cross-Generation Young Scholars Award – Emerging Young Scholars
- 2024 Chemical Engineering Masterpiece Award by TwIChE
- 2024 Emerging Investigators by *Journal of Materials Chemistry A*.
- 2024 Rising Star by the College of Engineering of NCKU

### Research Areas:

All-solid-state batteries, Interface Science, First-Principles Calculations, Numerical Simulations

### Selective Publications:

1. Hung, M.-Y., and Tian, H.-K.\* et al. (2026). *Chemical Engineering Journal*, 530, 173422.
2. Tai, Y.-T., Tu, C.-H., Wang, M.-Y., Huang, Z.-L., Yeh, C.-H., Lau, V. W., Shih, C.-F.\*, & Tian, H.-K.\*. (2026). *Journal of Materials Chemistry A*. 2026, 14, 3354-3368.
3. Lu, F. F., Tateyama, Y.\*, & Tian, H.-K.\* et al. (2025). *Journal of Power Sources*, 628, 235906.
4. Chen, H.-K., Tian, H.-K.\* (2024). *Journal of Materials Chemistry A*, 12(34), 22584-22596.
5. Zhong, W.-J., Tian, H.-K.\*, & Wu, J.-J.\* et al. (2024). *Advanced Materials*, 2403228.
6. Wang, L.-C., Li, W.-P.\*, Tian, H.-K.\*, & Yeh, C.-S.\* et al. (2024). *Advanced Materials*, 2404120.