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Professor

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Education:

09. 2002 – 12. 2007 PhD, Materials Science & Engineering, University of Maryland

09. 1998 – 06. 2002 MS, Chemical Engineering, National Tsing Hua University

09. 1994 – 06. 1998 BS, Chemical Engineering, National Cheng Kung University

Experience:

•02. 2018-07.2025 Chairman/Deputy Chairman, Department of Chemical Engineering, NTHU

•08. 2021-present Professor, Department of Chemical Engineering, NTHU

•08. 2013-07. 2021 Associate/Assistant Professor, Department of Chemical Engineering, NTHU

Selective Honors & Awards:

- Interface Technology Award, Taiwanese Colloid and Interface Society (2025)
- Outstanding Teaching Award, College of Engineering, National Tsing Hua University (2022)
- Outstanding Young Alumni, National Cheng Kung University (2021)
- 2018 Advanced Power Technology (APT) Outstanding International Contribution Award. The Society of Powder Technology, Japan (2019).
- 2018 Ta-You Wu Memorial Award. Ministry of Science and Technology, R.O.C.
- 2018 Chemical Engineering Outstanding Paper Award. Taiwan Inst. of Chemical Engineering.

Research Areas:

Colloid; Aerosol; Nanoparticle; Chemical reaction engineering; Catalysis

Selective Publications:

1. D-H Tsai *et al.*, *Chemical Engineering Journal*, 2025, 511, 162067
2. D-H Tsai *et al.*, *Fuel*, 2025, 399, 135683
3. D-H Tsai *et al.*, *J. Colloid Interface Sci.*, 2025, 684, 201.
4. D-H Tsai *et al.*, *Chemical Engineering Journal*, 2024, 500, 157302
5. D-H Tsai *et al.*, *ACS Sustainable Chem. Eng.*, 2024, 12, 32, 12200–12215 (Front cover)
6. D-H Tsai *et al.*, *Small Methods*. 2024, 8(5) 2301435 (Frontier Piece)
7. D-H Tsai *et al.*, *Analytical Chemistry*, 2023, 95, 9, 4513-452 (Front cover)
8. D-H Tsai *et al.*, *ACS Sustainable Chem. Eng.*, 2023, 11, 6, 2574–2585 (Front cover)