

Szu-Chia Chien

Affiliation: Department of Chemical and Materials Engineering, National Central University

Address: No. 300, Zhongda Rd., Zhongli Dist., Taoyuan City, 320317, Taiwan

E-mail: scchien@ncu.edu.tw

Website: <https://sites.google.com/view/chienresearchgroup/home>



Education

2010 – 2015 Ph.D. University of Massachusetts Amherst (Chemical Engineering)

2008 – 2010 M.S. National Taiwan University (Chemical Engineering)

Professional Career

2021.08– Present Assistant Professor, Department of Chemical and Materials Engineering
National Central University, Taiwan

2016.08 – 2021.07 Research Associate, Department of Materials Science and Engineering
The Ohio State University, USA

2015.11 – 2016.06 Post-doctoral Fellow, Department of Materials Science and Engineering
Massachusetts Institute of Technology, USA

Selected Publications

1. Y.-T. Lin and S.-C. Chien*, “Designing 2D Janus Zr_2CTX MXenes for Anode Materials in Lithium-ion Batteries”, *J. Taiwan Inst. Chem. Eng.*, 167, 105830 (2025)
2. G. K. Silori, S.-C. Chien, L.-C. Lin and K.-C. Ho*, “Four-State Electrochromism in Tris (4-aminophenyl) amine-terephthalaldehyde-based Covalent Organic Framework”, *Angew. Chem. Int. Ed.*, e202416046 (2024)
3. J.-E. Li, S.-C. Chien* and C.-M. Hsieh*, “Modeling Solid Solute Solubility in Supercritical Carbon Dioxide by Machine Learning Algorithms using Molecular Sigma Profiles”, *J. Mol. Liq.*, 395, 123884 (2024)
4. X. Guo, H.-L. Huang, M. Zhu, K. Hariharan, S.-C. Chien, N. Huynh, J. Hwang, W. Windl, C. D. Taylor, E. J. Schindelholz and G. S. Frankel*, “Interstitial elements created via metal 3D printing”, *Mater. Today*, 66, 92104 (2023)

Research Interests

Porous materials, 2D materials, thermoelectric materials, corrosion resistant alloys

Selected Awards

1. National Central University 「New Hire Outstanding Award 2021」
2. National Central University 「New Hire Outstanding Award 2022」
3. National Central University 「New Hire Outstanding Award 2023」
4. National Central University 「Research Excellence Award 2025」