Stanford

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- Ph.D. Student in Materials Science and Engineering, admitted Autumn 2024
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Publications

PUBLICATIONS

- **NiSO4-Driven In Situ Alloy Formation To Unlock Highly Reversible Iron Electrochemistry in Aqueous Batteries.** *Journal of the American Chemical Society*
  Feng, G., Liu, Z., Li, J., Li, Y., Guan, X., Ravi, A., Liu, C., Chi, X., Ai, H., Zheng, X., Cui, Y.
  2026
- **Crowding Agent Stabilizes Aqueous Electrolyte for Reversible Iron Metal Anode** *ACS ENERGY LETTERS*
  Greenburg, L. C., Holoubek, J., Zhang, P., Ai, H., Zhang, E., Liu, C., Feng, G., Cui, Y.
  2025
- **In situ formation of liquid crystal interphase in electrolytes with soft templating effects for aqueous dual-electrode-free batteries** *NATURE ENERGY*
  Li, Y., Zheng, X., Carlson, E. Z., Xiao, X., Chi, X., Greenburg, L. C., Zhang, G., Zhang, E., Liu, C., Yang, Y., Kim, M., Feng, G., Zhang, et al
  2024
- **Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Li-S Batteries.** *Nano letters*
  Zhou, G. n., Zhao, S. n., Wang, T. n., Yang, S. Z., Johannessen, B. n., Chen, H. n., Liu, C. n., Ye, Y. n., Wu, Y. n., Peng, Y. n., Liu, C. n., Jiang, S. P., Zhang, et al
  2020
- **Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries.** *Science advances*
  Zhou, G. n., Yang, A. n., Gao, G. n., Yu, X. n., Xu, J. n., Liu, C. n., Ye, Y. n., Pei, A. n., Wu, Y. n., Peng, Y. n., Li, Y. n., Liang, Z. n., Liu, et al
  2020; 6 (21): eaay5098