Stanford



Yuqi Li

Postdoctoral Scholar, Materials Science and Engineering

Bio

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Publications

PUBLICATIONS

- **Next-generation anodes for high-energy and low-cost sodium-ion batteries** *NATURE REVIEWS MATERIALS*
  Zuo, W., Liu, Z., Dopilka, A., Yang, Z., Li, Y., Kubal, J., Kim, H., Liu, F., Liu, P., Ngo, A. T., Nelson Weker, J., Chen, Z., Kostecki, et al
  2026
- **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
- **End-to-end millisecond-level battery aging diagnostics for electric vehicles** *JOURNAL OF ENERGY STORAGE*
  Zhao, J., Lv, Z., Che, Y., Li, Y., Burke, A. F.
  2026; 143
- **Epitaxial Electrodeposition of Fe with Controlled In-Plane Variants for a Reversible Metal Anode in an Aqueous Electrolyte.** *Nano letters*
  Sui, C., Fu, C. T., Feng, G., Li, Y., Li, J., Yan, G., Hsu, P. C., Chu, S., Cui, Y.
  2026
- **Hydrotrope-enabled high concentration aqueous electrolytes for reversible and sustainable iron metal anodes.** *Nature communications*
  Feng, G., Liu, Z., Holoubek, J., Greenburg, L. C., Zhang, G., Li, Y., Guan, X., Cui, Y., Zhang, P., Brest, A., Zheng, X., Cui, Y.
  2025
- **Revealing and Quantifying Carbon Corrosion in Aqueous Manganese-Based Batteries.** *Nano letters*
  Ravi, A., Zhang, G., Holoubek, J., Li, Y., Hao, H., Cai, A., Shuchi, S. B., Feng, G., Han, J., Li, J., Bent, S. F., Zheng, X., Cui, et al
  2025
- **Epitaxial Electrodeposition of Zinc on Different Single Crystal Copper Substrates for High Performance Aqueous Batteries.** *Nano letters*
  Xiao, X., Greenburg, L. C., Li, Y., Yang, M., Tzeng, Y. K., Sui, C., Peng, Y., Wu, Y., Zhang, Z., Gao, X., Xu, R., Ye, Y., Zhang, et al
  2025

- **Battery lifetime prediction across diverse ageing conditions with inter-cell deep learning** *NATURE MACHINE INTELLIGENCE*
  Zhang, H., Li, Y., Zheng, S., Lu, Z., Gui, X., Xu, W., Bian, J.
  2025
- **Coupling Anionic Oxygen Redox with Selenium for Stable High-Voltage Sodium Layered Oxide Cathodes** *ADVANCED FUNCTIONAL MATERIALS*
  Xue, Z., Bothra, N., Meng, D., Feng, G., Li, Y., Cui, T., Hao, H., Lee, S., Liu, Y., Bajdich, M., Nanda, J., Zheng, X.
  2024
- **Seawater alkalization via an energy-efficient electrochemical process for CO2 capture.** *Proceedings of the National Academy of Sciences of the United States of America*
  Guan, X., Zhang, G., Li, J., Kim, S. C., Feng, G., Li, Y., Cui, T., Brest, A., Cui, Y.
  2024; 121 (45): e2410841121
- **Spontaneous lithium extraction and enrichment from brine with net energy output driven by counter-ion gradients** *NATURE WATER*
  Zhang, G., Li, Y., Guan, X., Hu, G., Su, H., Xu, X., Feng, G., Shuchi, S., Kim, S., Zhou, J., Xu, R., Xiao, X., Wu, et al
  2024; 2 (11): 1091-1101
- **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
- **Precision anode vacancy engineering for long-lasting and fast-charging Na-Ion batteries** *ENERGY STORAGE MATERIALS*
  Fu, X., Yang, M., Zhai, M., Zhang, C., Niu, H., Li, Y.
  2024; 70
- **Kinetics Manipulation for Improved Solid Electrolyte Interphase and Reversible Na Storage** *ACS ENERGY LETTERS*
  Tang, X., Xie, F., Lu, Y., Mao, H., Chen, Z., Pan, H., Weng, S., Yang, Y., Li, X., Guo, Z., Guo, Q., Ding, F., Hou, et al
  2024
- **Origin of fast charging in hard carbon anodes (vol <bold>9</bold> pg 134-142,2024)** *NATURE ENERGY*
  Li, Y., Vasileiadis, A., Zhou, Q., Lu, Y., Meng, Q., Li, Y., Ombrini, P., Zhao, J., Chen, Z., Niu, Y., Qi, X., Xie, F., van der Jagt, et al
  2024
- **Origin of fast charging in hard carbon anodes** *NATURE ENERGY*
  Li, Y., Vasileiadis, A., Zhou, Q., Lu, Y., Meng, Q., Li, Y., Ombrini, P., Zhao, J., Chen, Z., Niu, Y., Qi, X., Xie, F., van der Jagt, et al
  2024