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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Electrochemical formation of bis(fluorosulfonyl)imide-derived solid-electrolyte interphase at Li-metal potential.** *Nature chemistry*
Yu, W., Lin, K. Y., Boyle, D. T., Tang, M. T., Cui, Y., Chen, Y., Yu, Z., Xu, R., Lin, Y., Feng, G., Huang, Z., Michalek, L., Li, et al
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*
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- **In situ formation of liquid crystal interphase in electrolytes with soft templating effects for aqueous dual-electrode-free batteries** *NATURE ENERGY*
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- **Dynamic Bubbling Balanced Proactive CO₂Capture and Reduction on a Triple-Phase Interface Nanoporous Electrocatalyst.** *Journal of the American Chemical Society*
Zhang, W., Yu, A., Mao, H., Feng, G., Li, C., Wang, G., Chang, J., Halat, D., Li, Z., Yu, W., Shi, Y., Liu, S., Fox, et al
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- **Progressive and instantaneous nature of lithium nucleation discovered by dynamic and operando imaging** *SCIENCE ADVANCES*
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- **Imaging solid-electrolyte interphase dynamics using operando reflection interference microscopy** *NATURE NANOTECHNOLOGY*
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- **Three-dimensional Zn-based alloys for dendrite-free aqueous Zn battery in dual-cation electrolytes** *NATURE COMMUNICATIONS*
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2022; 13 (1): 7922
- **Probe the Localized Electrochemical Environment Effects and Electrode Reaction Dynamics for Metal Batteries using In Situ 3D Microscopy** *ADVANCED ENERGY MATERIALS*
Feng, G., Guo, J., Tian, H., Li, Z., Shi, Y., Li, X., Yang, X., Mayerich, D., Yang, Y., Shan, X.
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- **Electrochemical Impedance Imaging on Conductive Surfaces** *ANALYTICAL CHEMISTRY*
Shi, Y., Feng, G., Li, X., Yang, X., Ghanim, A. H., Ruchhoeft, P., Jackson, D., Mubeen, S., Shan, X.
2021; 93 (36): 12320-12328

- **Stable, high-performance, dendrite-free, seawater-based aqueous batteries** *NATURE COMMUNICATIONS*
Tian, H., Li, Z., Feng, G., Yang, Z., Fox, D., Wang, M., Zhou, H., Zhai, L., Kushima, A., Du, Y., Feng, Z., Shan, X., Yang, et al
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- **Gold-nanorod-enhanced Raman spectroscopy encoded micro-quartz pieces for the multiplex detection of biomolecules** *ANALYTICAL AND BIOANALYTICAL CHEMISTRY*
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- **Spectral-optical-tweezer-assisted fluorescence multiplexing system for QDs-encoded bead-array bioassay** *BIOSENSORS & BIOELECTRONICS*
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