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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Approaching the theoretical density limit of ultrahigh-nickel cathodes via cation-disorder-free 10- μm single-crystalline particles** *NATURE ENERGY*
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2026
- **Recovery of High-Voltage Oxygen Redox Activity by Eliminating Residual Oxygen Dimers.** *Journal of the American Chemical Society*
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2025
- **Toward Practical Li-Ion Cells With Li/Mn-Rich Layered Oxide Cathodes: A Techno-Economic Perspective on Material and Cell Design.** *Advanced science (Weinheim, Baden-Wurtemberg, Germany)*
Arifiadi, A., Oster, S., Eum, D., Voigt, D., Kulka, A., Hur, H., Winter, M., Kasnatscheew, J.
2025: e12467
- **Electrochemomechanical failure in layered oxide cathodes caused by rotational stacking faults.** *Nature materials*
Eum, D., Park, S. O., Jang, H. Y., Jeon, Y., Song, J. H., Han, S., Kim, K., Kang, K.
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- **Freedom of chemical space** *NATURE SUSTAINABILITY*
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2024; 7 (3): 234-235
- **Structurally robust lithium-rich layered oxides for high-energy and long-lasting cathodes.** *Nature communications*
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- **Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes.** *Nature materials*
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