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Publications

PUBLICATIONS

- **Crossing the Oxo-Peroxo Wall for Selective Electrochemical Epoxidation.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
Basera, P., Mandal, S. C., Abild-Pedersen, F., Bajdich, M.
2025: e17229
- **The Role of Cu³⁺ in the Oxygen Evolution Activity of Copper Oxides.** *Journal of the American Chemical Society*
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2025
- **Resolution of Selectivity Steps of CO Reduction Reaction on Copper by Quantum Monte Carlo.** *The journal of physical chemistry letters*
Fanta, R., Bajdich, M.
2025: 1494-1500
- **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.
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2024
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Comer, B. M., Bothra, N., Lunger, J. R., Abild-Pedersen, F., Bajdich, M., Winther, K. T.
2024
- **Synergistic effects of mixing and strain in high entropy spinel oxides for oxygen evolution reaction.** *Nature communications*
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2023; 14 (1): 5936
- **A Comparative Study of Electrical Double Layer Effects for CO Reduction Reaction Kinetics** *JOURNAL OF PHYSICAL CHEMISTRY C*
Pasumarthi, V., Yu, H., Akhade, S. A., Abild-Pedersen, F., Varley, J. B., Bajdich, M.
2023
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2023: 4272-4282

- **Resolving atomistic structure and oxygen evolution activity in nickel antimonates** *JOURNAL OF MATERIALS CHEMISTRY A*
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- **Dynamics and Hysteresis of Hydrogen Intercalation and Deintercalation in Palladium Electrodes: A Multimodal In Situ X-ray Diffraction, Coulometry, and Computational Study** *CHEMISTRY OF MATERIALS*
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- **The role of atomic carbon in directing electrochemical CO₂ reduction to multicarbon products** *ENERGY & ENVIRONMENTAL SCIENCE*
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- **Guiding the Catalytic Properties of Copper for Electrochemical CO₂ Reduction by Metal Atom Decoration.** *ACS applied materials & interfaces*
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