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## Publications

### PUBLICATIONS

- **Aging matrix visualizes complexity of battery aging across hundreds of cycling protocols** *ENERGY & ENVIRONMENTAL SCIENCE*
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  2025
- **Quantification of Efficiency in Lithium Metal Negative Electrodes via Operando X-ray Diffraction** *CHEMISTRY OF MATERIALS*
  Geise, N. R., Kasse, R. M., Weker, J., Steinrueck, H., Toney, M. F.
  2021; 33 (18): 7537-7545
- **Understanding additive controlled lithium morphology in lithium metal batteries** *JOURNAL OF MATERIALS CHEMISTRY A*
  Kasse, R. M., Geise, N. R., Ko, J. S., Weker, J., Steinrueck, H., Toney, M. F.
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- **High Power Energy Storage via Electrochemically Expanded and Hydrated Manganese-Rich Oxides.** *Frontiers in chemistry*
  Boyd, S., Geise, N. R., Toney, M. F., Augustyn, V.
  2020; 8: 715
- **High Power Energy Storage via Electrochemically Expanded and Hydrated Manganese-Rich Oxides** *FRONTIERS IN CHEMISTRY*
  Boyd, S., Geise, N. R., Toney, M. F., Augustyn, V.
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- **Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates** *ACS ENERGY LETTERS*
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- **Analysis and Simulation of One-Dimensional Transport Models for Lithium Symmetric Cells**
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  ELECTROCHEMICAL SOC INC.2019: A3806–A3819
- **Novel ALD Chemistry Enabled Low-Temperature Synthesis of Lithium Fluoride Coatings for Durable Lithium Anodes** *ACS APPLIED MATERIALS & INTERFACES*
  Chen, L., Chen, K., Chen, X., Ramirez, G., Huang, Z., Geise, N. R., Steinruck, H., Fisher, B. L., Shahbazian-Yassar, R., Toney, M. F., Hersam, M. C., Elam, J. W.
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