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Ph.D. Student in Materials Science and Engineering, admitted Autumn 2020

Publications

PUBLICATIONS

- **A Solution-Processable High-Modulus Crystalline Artificial Solid Electrolyte Interphase for Practical Lithium Metal Batteries** *ADVANCED ENERGY MATERIALS*
Yu, Z., Seo, S., Song, J., Zhang, Z., Oyakhire, S. T., Wang, Y., Xu, R., Gong, H., Zhang, S., Zheng, Y., Tsao, Y., Mondonico, L., Lomeli, et al
2022
- **Correlative image learning of chemo-mechanics in phase-transforming solids.** *Nature materials*
Deng, H. D., Zhao, H., Jin, N., Hughes, L., Savitzky, B. H., Ophus, C., Fraggedakis, D., Borbely, A., Yu, Y., Lomeli, E. G., Yan, R., Liu, J., Shapiro, et al
2022
- **Correlative analysis of structure and chemistry of Li_xFePO_4 platelets using 4D-STEM and X-ray ptychography** *MATERIALS TODAY*
Hughes, L. A., Savitzky, B. H., Deng, H. D., Jin, N. L., Lomeli, E. G., Yu, Y., Shapiro, D. A., Herring, P., Anapolsky, A., Chueh, W. C., Ophus, C., Minor, A. M.
2022; 52: 102-111
- **Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries** *NATURE ENERGY*
Yu, Z., Wang, H., Kong, X., Huang, W., Tsao, Y., Mackanic, D. G., Wang, K., Wang, X., Huang, W., Choudhury, S., Zheng, Y., Amanchukwu, C., Hung, et al
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