

### Publications

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#### PUBLICATIONS

- **Atomic-level insights into strain effect on p-nitrophenol reduction via Au@Pd core-shell nanocubes as an ideal platform** *JOURNAL OF CATALYSIS*  
Cui, Y., Ma, K., Chen, Z., Yang, J., Geng, Z., Zeng, J.  
2020; 381: 427–33
- **Design Principles of Artificial Solid Electrolyte Interphases for Lithium-Metal Anodes** *Cell Reports Physical Science*  
Yu, Z., Cui, Y., Bao, Z.  
2020; 1 (7): 100119
- **Transient Voltammetry with Ultramicroelectrodes Reveals the Electron Transfer Kinetics of Lithium Metal Anodes** *Adv. Energy Lett.*  
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2020; 5: 701-709
- **Electrochemical generation of liquid and solid sulfur on two-dimensional layered materials with distinct areal capacities** *Nature Nanotechnology*  
Yang, A., Zhou, G., et al  
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- **Dynamic Structure and Chemistry of the Silicon Solid-Electrolyte Interphase Visualized by Cryogenic Electron Microscopy** *Matter*  
Huang, W., Wang, J., Braun, M. R., Zhang, Z., Li, Y., Boyle, D. T., McIntyre, P. C., Cui, Y.  
2019; 1 (5)
- **Sulfur-Modulated Tin Sites Enable Highly Selective Electrochemical Reduction of CO<sub>2</sub> to Formate** *Joule*  
Zheng, X., De luna, P., de Arquer, F., Zhang, B., Becknell, N., Cui, Y., Du, X., Yang, P., Sargent, E.  
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- **A reaction-controlled diffusion model for the lithiation of silicon in lithium-ion batteries** *Extreme Mechanics Letters*  
Zhang, X., Lee, S., Lee, H., Cui, Y., Linder, C.  
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- **Stable Li-ion Battery Anodes by In-situ Polymerization of Conducting Hydrogel to Conformally Coat Silicon Nanoparticles** *Nature Comm.*  
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- **A transparent electrode based on a metal nanotrough network** *Nature Nanotechnology*  
Fan, S., H., Wu, H., Kong, S., D., Ruan et al., C., Z.  
2013; 8 (6): 421-425
- **High-performance hollow sulfur nanostructured battery cathode through a scalable, room temperature, one-step, bottom-up approach** *PNAS*  
Li, W., Zheng, G., Yang, Y., Seh, Z., W., Liu, N., Cui, Y.  
2013: 7148–53
- **Large-Area Free-Standing Ultrathin Single-Crystal Silicon as Processable Materials** *Nano Letters*  
Wang, S., Weil, B., Li, Y., Wang, K., X., Garnett, E., Fan, S., Cui, Y.  
2013: 4393–98
- **Microbial battery for efficient energy recovery.** *PNAS*  
Xie, X., Ye, M., Hsu, P., C., Liu, N., Criddle, C., S., Cui, Y.

