

# Stanford

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## Riley Zhang

- Ph.D. Student in Materials Science and Engineering, admitted Autumn 2019
- Summer First, School of Engineering - Student Affairs
- Public Speaking Tutor, School of Engineering - Technical Communications Program

### Publications

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#### PUBLICATIONS

- **All-Solid-State Lithium-Sulfur Batteries Enhanced by Redox Mediators.** *Journal of the American Chemical Society*  
Gao, X., Zheng, X., Tsao, Y., Zhang, P., Xiao, X., Ye, Y., Li, J., Yang, Y., Xu, R., Bao, Z., Cui, Y.  
2021
- **Wheat Bran Derived Carbon toward Cost-Efficient and High Performance Lithium Storage** *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*  
Wang, H., Zhang, P., Song, X., Zhang, M., Kong, X., Jin, S., Chang, X., Zhang, Y.  
2020; 8 (42): 15898–905
- **Incorporating the nanoscale encapsulation concept from liquid electrolytes into solid-state lithium-sulfur batteries.** *Nano letters*  
Gao, X., Zheng, X., Wang, J., Zhang, Z., Xiao, X., Wan, J., Ye, Y., Chou, L., Lee, H. K., Wang, J., Vila, R. A., Yang, Y., Zhang, et al  
2020
- **Promoting H<sub>2</sub>O<sub>2</sub> production via 2-electron oxygen reduction by coordinating partially oxidized Pd with defect carbon.** *Nature communications*  
Chang, Q., Zhang, P., Mostaghimi, A. H., Zhao, X., Denny, S. R., Lee, J. H., Gao, H., Zhang, Y., Xin, H. L., Siahrostami, S., Chen, J. G., Chen, Z.  
2020; 11 (1): 2178
- **Enhancing C–C Bond Scission for Efficient Ethanol Oxidation using PtIr Nanocube Electrocatalysts** *ACS Catalysis*  
Chang, Q.  
2019