

# Stanford

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## SANGWOOK PARK

Postdoctoral Scholar, Mechanical Engineering

### Bio

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#### STANFORD ADVISORS

- Xiaolin Zheng, Postdoctoral Research Mentor

### Publications

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#### PUBLICATIONS

- **Effect of Adventitious Carbon on Pit Formation of Monolayer MoS<sub>2</sub>.** *Advanced materials (Deerfield Beach, Fla.)*  
Park, S., Siahrostami, S., Park, J., Mostaghimi, A. H., Kim, T. R., Vallez, L., Gill, T. M., Park, W., Goodson, K. E., Sinclair, R., Zheng, X.  
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- **Profitable Production of Stable Electrical Power Using Wind-battery Hybrid Power Systems: A Case Study from Mt. Taegi, South Korea** *INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING-GREEN TECHNOLOGY*  
Park, S., Hang, G., Koo, J., Choi, H., Shim, J.  
2019; 6 (5): 919–30
- **Rapid Flame-Annealed CuFe<sub>2</sub>O<sub>4</sub> as Efficient Photocathode for Photoelectrochemical Hydrogen Production** *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*  
Park, S., Baek, J., Zhang, L., Lee, J., Stone, K. H., Cho, I., Guo, J., Jung, H., Zheng, X.  
2019; 7 (6): 5867–74
- **Selective and Efficient Gd-Doped BiVO<sub>4</sub> Photoanode for Two-Electron Water Oxidation to H<sub>2</sub>O<sub>2</sub>** *ACS ENERGY LETTERS*  
Baek, J., Gill, T., Abroshan, H., Park, S., Shi, X., Norskoy, J., Jung, H., Siahrostami, S., Zheng, X.  
2019; 4 (3): 720–28
- **Enhancing Catalytic Activity of MoS<sub>2</sub> Basal Plane S-Vacancy by Co Cluster Addition** *ACS ENERGY LETTERS*  
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- **Wafer-recyclable, environment-friendly transfer printing for large-scale thin-film nanoelectronics** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Wie, D., Zhang, Y., Kim, M., Kim, B., Park, S., Kim, Y., Irazoqui, P. P., Zheng, X., Xu, B., Lee, C.  
2018; 115 (31): E7236–E7244
- **Ultrafast Flame Annealing of TiO<sub>2</sub> Paste for Fabricating Dye-Sensitized and Perovskite Solar Cells with Enhanced Efficiency** *SMALL*  
Kim, J., Chai, S., Cho, Y., Cai, L., Kim, S., Park, S., Park, J., Zheng, X.  
2017; 13 (42)
- **Electrochemical generation of sulfur vacancies in the basal plane of MoS<sub>2</sub> for hydrogen evolution** *NATURE COMMUNICATIONS*  
Tsai, C., Li, H., Park, S., Park, J., Han, H. S., Norskov, J. K., Zheng, X., Abild-Pedersen, F.  
2017; 8
- **Molybdenum disulfide catalyzed tungsten oxide for on-chip acetone sensing** *APPLIED PHYSICS LETTERS*  
Li, H., Ahn, S. H., Park, S., Cai, L., Zhao, J., He, J., Zhou, M., Park, J., Zheng, X.  
2016; 109 (13)