

# Stanford

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## Kipil Lim

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### Bio

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#### STANFORD ADVISORS

- William Chueh, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Metal-oxygen decoordination stabilizes anion redox in Li-rich oxides** *NATURE MATERIALS*  
Hong, J., Gent, W. E., Xiao, P., Lim, K., Seo, D., Wu, J., Csernica, P. M., Takacs, C. J., Nordlund, D., Sun, C., Stone, K. H., Passarello, D., Yang, et al  
2019; 18 (3): 256-+
- **Theory-guided Sn/Cu alloying for efficient CO<sub>2</sub> electroreduction at low overpotentials** *NATURE CATALYSIS*  
Zheng, X., Ji, Y., Tang, J., Wang, J., Liu, B., Steinruck, H., Lim, K., Li, Y., Toney, M. F., Chan, K., Cui, Y.  
2019; 2 (1): 55-61
- **Fluid-enhanced surface diffusion controls intraparticle phase transformations** *NATURE MATERIALS*  
Li, Y., Chen, H., Lim, K., Deng, H. D., Lim, J., Fraggedakis, D., Attia, P. M., Lee, S., Jin, N., Moskon, J., Guan, Z., Gent, W. E., Hong, et al  
2018; 17 (10): 915-+
- **The use of poly-cation oxides to lower the temperature of two-step thermochemical water splitting** *ENERGY & ENVIRONMENTAL SCIENCE*  
Zhai, S., Rojas, J., Ahlborg, N., Lim, K., Toney, M. F., Jin, H., Chueh, W. C., Majumdar, A.  
2018; 11 (8): 2172-78
- **Electrochemical trapping of metastable Mn<sup>3+</sup> ions for activation of MnO<sub>2</sub> oxygen evolution catalysts** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Chan, Z., Kitchaev, D. A., Weker, J., Schnedermann, C., Lim, K., Ceder, G., Tumas, W., Toney, M. F., Nocera, D. G.  
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Gent, W. E., Lim, K., Liang, Y., Li, Q., Barnes, T., Ahn, S., Stone, K. H., McIntire, M., Hong, J., Song, J., Li, Y., Mehta, A., Ermon, et al  
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- **High-performance sodium-organic battery by realizing four-sodium storage in disodium rhodizonate** *NATURE ENERGY*  
Lee, M., Hong, J., Lopez, J., Sun, Y., Feng, D., Lim, K., Chueh, W. C., Toney, M. F., Cui, Y., Bao, Z.  
2017; 2 (11)
- **Exploring the influence of iron substitution in lithium rich layered oxides Li<sub>2</sub>Ru<sub>1-x</sub>Fe<sub>x</sub>O<sub>3</sub>: triggering the anionic redox reaction** *JOURNAL OF MATERIALS CHEMISTRY A*  
Satish, R., Lim, K., Bucher, N., Hartung, S., Aravindan, V., Franklin, J., Lee, J., Toney, M. F., Madhavi, S.  
2017; 5 (27): 14387-96