

# Stanford

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#### STANFORD ADVISORS

- Harold Hwang, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Atomic-Scale Moiré and Electronic Structure Analysis of Twisted Epitaxial MoS<sub>2</sub>-Au-MoS<sub>2</sub> Heterostructures.** *Nano letters*  
Cui, Y., Xu, K., Ren, P., Yuan, L., Czaja, P., Barnum, A., Sarkar, P., Altman, A., Bustillo, K., Kundu, S., Ramdas, A., Wang, X., Wan, et al  
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- **Reducing the Strain Required for Ambient-Pressure Superconductivity in Ruddlesden-Popper Bilayer Nickelates.** *Advanced materials (Deerfield Beach, Fla.)*  
Tarn, Y., Liu, Y., Theuss, F., Li, J., Wang, B. Y., Bhatt, L., Wang, J., Song, J., Thampy, V., Goodge, B. H., Muller, D. A., Shen, Z. X., Yu, et al  
2026: e20724
- **Freestanding SrNbO<sub>3</sub> membranes as flexible transparent conductors** *APL MATERIALS*  
Ko, E., Wang, B., Lee, J., Wang, J., Crust, K. J., Hwang, H. Y.  
2026; 14 (1)
- **Strain-induced lead-free morphotropic phase boundary.** *Nature communications*  
Ghanbari, R., Kp, H., Patel, K., Zhou, H., Zhou, T., Liu, R., Wu, L., Khandelwal, A., Crust, K. J., Hazra, S., Carroll, J., Meyers, C. J., Wang, et al  
2025; 16 (1): 7766
- **Fermi Level Equilibration and Charge Transfer at the Exsolved Metal-Oxide Interface.** *Journal of the American Chemical Society*  
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2025
- **Molecular H<sub>2</sub> as the Reducing Agent in Low-Temperature Oxide Reduction Using Calcium Hydride.** *Journal of the American Chemical Society*  
Wang, J., Yu, Y., Abdelkawy, A., Li, J., Li, J., Yang, J., Ko, E. K., Lee, Y., Thampy, V., Cui, Y., Todorova, M., Neugebauer, J., Hwang, et al  
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- **Recommended strategies for quantifying oxygen vacancies with X-ray photoelectron spectroscopy** *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*  
Wang, J., Mueller, D. N., Crumlin, E. J.  
2024; 44 (15)