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Bio

STANFORD ADVISORS

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Publications

PUBLICATIONS

- **Freestanding Ordered Intermetallic Nanomembranes Released from Etchable Oxide Templates.** *Journal of the American Chemical Society*
Wang, J., Cui, Y., Blake, E., Li, J., Wei, X., Khandelwal, A., Hoogendoorn, L., Yu, Y., Theuss, F., Han, Y., Wang, T. C., Zhang, G., Wu, et al
2026
- **Atomic-Scale Moiré and Electronic Structure Analysis of Twisted Epitaxial MoS₂-Au-MoS₂ 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
2026
- **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 SrNbO₃ 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*
Wang, J., Yang, J., Wardini, J. L., Waluyo, I., Hunt, A., Crumlin, E. J., Fairley, N., Bowman, W. J., Hwang, H. Y., Yildiz, B.
2025
- **Molecular H₂ 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
2025
- **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)