



## Yaoju Tarn

Ph.D. Student in Applied Physics, admitted Autumn 2024

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### Bio

#### LINKS

- Google Scholar: <https://scholar.google.com/citations?user=ebAcRM8AAAAJ&hl=en>

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### Publications

#### PUBLICATIONS

- **Fermi-liquid transport beyond the upper critical field in superconducting La<sub>2</sub>PrNi<sub>2</sub>O<sub>7</sub> thin films.** *Nature communications*  
Hsu, Y. T., Liu, Y., Kohama, Y., Kotte, T., Sharma, V., Tarn, Y., Wang, B. Y., Shen, Z. X., Yu, Y., Hwang, H. Y.  
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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
- **Superconductivity and normal-state transport in compressively strained La<sub>2</sub>PrNi<sub>2</sub>O<sub>7</sub> thin films.** *Nature materials*  
Liu, Y., Ko, E. K., Tarn, Y., Bhatt, L., Li, J., Thampy, V., Goodge, B. H., Muller, D. A., Raghu, S., Yu, Y., Hwang, H. Y.  
2025
- **Toward Phonon-Limited Transport in Two-Dimensional Transition Metal Dichalcogenides by Oxygen-Free Fabrication.** *ACS nano*  
Mukherjee, S., Wang, S., Venkatakrisnarao, D., Tarn, Y., Talha-Dean, T., Lee, R., Verzhbitskiy, I. A., Huang, D., Mishra, A., John, J. W., Das, S., Bussolotti, F., Maddumapatabandi, et al  
2025; 19 (9): 9327-9339
- **Liquid Metal Oxide-Assisted Integration of High-k Dielectrics and Metal Contacts for Two-Dimensional Electronics.** *ACS nano*  
Venkatakrisnarao, D., Mishra, A., Tarn, Y., Bosman, M., Lee, R., Das, S., Mukherjee, S., Talha-Dean, T., Zhang, Y., Teo, S. L., Chai, J., Bussolotti, F., Goh, et al  
2024; 18 (39): 26911-26919
- **Nanoironing van der Waals Heterostructures toward Electrically Controlled Quantum Dots.** *ACS applied materials & interfaces*  
Talha-Dean, T., Tarn, Y., Mukherjee, S., John, J. W., Huang, D., Verzhbitskiy, I. A., Venkatakrisnarao, D., Das, S., Lee, R., Mishra, A., Wang, S., Ang, Y. S., Johnson Goh, et al  
2024; 16 (24): 31738-31746
- **An algorithm for subtraction of doublet emission lines in angle-resolved photoemission spectroscopy** *JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA*  
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