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Ph.D. Student in Mechanical Engineering, admitted Autumn 2021

Publications

PUBLICATIONS

- **Environmental damping and vibrational coupling of confined fluids within isolated carbon nanotubes.** *Nature communications*
Tu, Y. M., Kuehne, M., Misra, R. P., Ritt, C. L., Oliaei, H., Faucher, S., Li, H., Xu, X., Penn, A., Yang, S., Yang, J. F., Sendgikowski, K., Chakraverty, et al
2024; 15 (1): 5605
- **Imaging the electron charge density in monolayer MoS₂ at the Ångstrom scale.** *Nature communications*
Martis, J., Susarla, S., Rayabharam, A., Su, C., Paule, T., Pelz, P., Huff, C., Xu, X., Li, H. K., Jaikissoon, M., Chen, V., Pop, E., Saraswat, et al
2023; 14 (1): 4363
- **A semi-continuous process for co-production of CO₂-free hydrogen and carbon nanotubes via methane pyrolysis** *CELL REPORTS PHYSICAL SCIENCE*
Sun, E., Zhai, S., Kim, D., Gigantino, M., Haribal, V., Dewey, O. S., Williams, S. M., Wan, G., Nelson, A., Marin-Quiros, S., Martis, J., Zhou, C., Oh, et al
2023; 4 (4)
- **Photoabsorption Imaging at Nanometer Scales Using Secondary Electron Analysis.** *Nano letters*
Zhang, Z., Martis, J., Xu, X., Li, H., Xie, C., Takasuka, B., Lee, J., Roy, A. K., Majumdar, A.
2021
- **High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte.** *Advanced materials (Deerfield Beach, Fla.)*
Sun, H., Zhu, G., Zhu, Y., Lin, M., Chen, H., Li, Y., Hung, W. H., Zhou, B., Wang, X., Bai, Y., Gu, M., Huang, C., Tai, et al
2020: e2001741
- **A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte.** *Nature communications*
Sun, H., Zhu, G., Xu, X., Liao, M., Li, Y., Angell, M., Gu, M., Zhu, Y., Hung, W. H., Li, J., Kuang, Y., Meng, Y., Lin, et al
2019; 10 (1): 3302