

Stanford

Andrew Lee

- Ph.D. Student in Materials Science and Engineering, admitted Autumn 2019
- Masters Student in Materials Science and Engineering, admitted Autumn 2021
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Publications

PUBLICATIONS

- **Dynamic fracture processes in hydrogen embrittled iron** *ACTA MATERIALIA*
Lee, A. C., Parakh, A., Lam, S., Sleugh, A., Tertuliano, O., Doan, D., Weker, J., Hosemann, P., Gu, X.
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- **Synthesis of multifunctional amorphous metallic shell on crystalline metallic nanoparticles.** *RSC advances*
Parakh, A., Kiani, M. T., Lindgren, E., Colmenares, A., Lee, A. C., Suzuki, Y., Gu, X. W.
2023; 13 (43): 30491-30498
- **Direct Observation of the Pressure-Induced Structural Variation in Gold Nanoclusters and the Correlated Optical Response.** *Nano letters*
Li, Q., Zeman, C. J., Kalkan, B., Kirschbaum, K., Gianopoulos, C. G., Parakh, A., Doan, D., Lee, A. C., Kulikowski, J., Schatz, G. C., Shen, G., Kunz, M., Gu, et al
2022
- **Detection of voids in hydrogen embrittled iron using transmission X-ray microscopy** *INTERNATIONAL JOURNAL OF HYDROGEN ENERGY*
Lee, A. C., Parakh, A., Sleugh, A., Tertuliano, O. A., Lam, S., Weker, J., Hosemann, P., Gu, X.
2023; 48 (5): 1968-1978
- **High-pressure deformation of metallic glass nanoparticles** *JOURNAL OF NON-CRYSTALLINE SOLIDS*
Parakh, A., Kiani, M. T., Colmenares, A., Lee, A. C., Shen, G., Chariton, S., Prakapenka, V. B., Gu, X.
2022; 597
- **High pressure deformation induced precipitation in Al-Zn-Mg-Cu alloy (Al7075)** *MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING*
Parakh, A., Lee, A. C., Chariton, S., Wang, M. M., Kiani, M. T., Prakapenka, V. B., Gu, X.
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- **Ultrafine-grained Ni-rich layered cathode for advanced Li-ion batteries** *ENERGY & ENVIRONMENTAL SCIENCE*
Park, G., Yoon, D., Kim, U., Namkoong, B., Lee, J., Wang, M. M., Lee, A. C., Gu, X., Chueh, W. C., Yoon, C. S., Sun, Y.
2021
- **Thermal enhancement and shape stabilization of a phase-change energy-storage material via copper nanowire aerogel** *CHEMICAL ENGINEERING JOURNAL*
Zhang, L., An, L., Wang, Y., Lee, A., Schuman, Y., Ural, A., Fleischer, A. S., Feng, G.
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