

# Stanford

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## David Doan

Ph.D. Student in Mechanical Engineering, admitted Spring 2018

### Publications

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#### PUBLICATIONS

- **Nanoparticle-enhanced absorptivity of copper during laser powder bed fusion** *ADDITIVE MANUFACTURING*  
Tertuliano, O. A., DePond, P. J., Doan, D., Matthews, M. J., Gu, X., Cai, W., Lew, A. J.  
2022; 51
- **Machine learning analysis of self-assembled colloidal cones.** *Soft matter*  
Doan, D., Echeveste, D. J., Kulikowski, J., Gu, X. W.  
2022
- **Diffusion of Anisotropic Colloidal Microparticles Fabricated Using Two-Photon Lithography** *PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION*  
Doan, D., Kulikowski, J., Gu, X.  
2021
- **Ductile Metallic Glass Nanoparticles via Colloidal Synthesis.** *Nano letters*  
Kiani, M. T., Barr, C. M., Xu, S., Doan, D., Wang, Z., Parakh, A., Hattar, K., Gu, X. W.  
2020
- **Hardening in Au-Ag nanoboxes from stacking fault-dislocation interactions.** *Nature communications*  
Patil, R. P., Doan, D., Aitken, Z. H., Chen, S., Kiani, M. T., Barr, C. M., Hattar, K., Zhang, Y., Gu, X. W.  
2020; 11 (1): 2923
- **Stress-Induced Structural Transformations in Au Nanocrystals.** *Nano letters*  
Parakh, A. n., Lee, S. n., Kiani, M. T., Doan, D. n., Kunz, M. n., Doran, A. n., Ryu, S. n., Gu, X. W.  
2020
- **Nucleation of Dislocations in 3.9 nm Nanocrystals at High Pressure.** *Physical review letters*  
Parakh, A. n., Lee, S. n., Harkins, K. A., Kiani, M. T., Doan, D. n., Kunz, M. n., Doran, A. n., Hanson, L. A., Ryu, S. n., Gu, X. W.  
2020; 124 (10): 106104