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Publications

PUBLICATIONS

- **Sub-micron thick liquid sheets produced by isotropically etched glass nozzles.** *Lab on a chip*
  Crissman, C. J., Mo, M., Chen, Z., Yang, J., Huyke, D. A., Glenzer, S. H., Ledbetter, K., F Nunes, J. P., Ng, M. L., Wang, H., Shen, X., Wang, X., DePonte, et al
  2022

- **Ultrafast visualization of incipient plasticity in dynamically compressed matter.** *Nature communications*
  Mo, M., Tang, M., Chen, Z., Peterson, J. R., Shen, X., Baldwin, J. K., Frost, M., Kozina, M., Reid, A., Wang, Y., E, J., Descamps, A., Ofori-Okai, et al
  2022; 13 (1): 1055

- **Effect of lattice excitations on transient near-edge x-ray absorption spectroscopy** *PHYSICAL REVIEW B*
  Rothenbach, N., Gruner, M. E., Ollefs, K., Schmitz-Antoniak, C., Salamon, S., Zhou, P., Li, R., Mo, M., Park, S., Shen, X., Weathersby, S., Yang, J., Wang, et al
  2021; 104 (14)

- **Imaging the short-lived hydroxyl-hydronium pair in ionized liquid water.** *Science (New York, N.Y.)*
  Lin, M., Singh, N., Liang, S., Mo, M., Nunes, J. P., Ledbetter, K., Yang, J., Kozina, M., Weathersby, S., Shen, X., Cordones, A. A., Wolf, T. J., Pemmaraju, et al
  2021; 374 (6563): 92-95

- **Observation of a highly conductive warm dense state of water with ultrafast pump-probe free-electron-laser measurements** *MATTER AND RADIATION AT EXTREMES*
  Chen, Z., Na, X., Curry, C. B., Liang, S., French, M., Descamps, A., DePonte, D. P., Koralek, J. D., Kim, J. B., Lebovitz, S., Nakatsutsumi, M., Ofori-Okai, B. K., Redmer, et al
  2021; 6 (5)

- **Fast attenuation of high-frequency acoustic waves in bicontinuous nanoporous gold** *APPLIED PHYSICS LETTERS*
  Zheng, Q., Tian, Y., Shen, X., Sokolowski-Tinten, K., Li, R. K., Chen, Z., Mo, M. Z., Wang, Z. L., Liu, P., Fujita, T., Weathersby, S. P., Yang, J., Wang, et al
  2021; 119 (6)

- **Ultrafast visualization of phase transitions in nonequilibrium warm dense matter** *MRS BULLETIN*
  Mo, M., Chen, Z., Glenzer, S.
  2021

- **Direct observation of ultrafast hydrogen bond strengthening in liquid water.** *Nature*
  Yang, J., Dettori, R., Nunes, J. P., List, N. H., Biasin, E., Centurion, M., Chen, Z., Cordones, A. A., Deponte, D. P., Heinz, T. F., Kozina, M. E., Ledbetter, K., Lin, et al
  2021; 596 (7873): 531-535

- **Structure retrieval in liquid-phase electron scattering.** *Physical chemistry chemical physics : PCCP*
  Yang, J., Nunes, J. P., Ledbetter, K., Biasin, E., Centurion, M., Chen, Z., Cordones, A. A., Crissman, C., Deponte, D. P., Glenzer, S. H., Lin, M., Mo, M., Rankine, et al
  2020

- **Synthesis of Macroscopic Single Crystals of Ge2Sb2Te5 via Single-Shot Femtosecond Optical Excitation** *CRYSTAL GROWTH & DESIGN*
  Zajac, M., Sood, A., Kim, T. R., Mo, M., Kozina, M., Park, S., Shen, X., Guzelturk, B., Lin, M., Yang, J., Weathersby, S., Wang, X., Lindenberg, et al
  2020; 20 (10): 6660–67

- **Characterization of defect clusters in ion-irradiated tungsten by X-Ray diffuse scattering** *JOURNAL OF NUCLEAR MATERIALS*
  Sun, P., Wang, Y., Frost, M., Schoenwaelder, C., Levitan, A. L., Mo, M., Chen, Z., Hastings, J. B., Tynan, G. R., Glenzer, S. H., Heimann, P.

2018; 510: 322–30