

Stanford

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Publications

PUBLICATIONS

- **Multi-frame, ultrafast, x-ray microscope for imaging shockwave dynamics.** *Optics express*
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- **Novel fabrication tools for dynamic compression targets with engineered voids using photolithography methods** *REVIEW OF SCIENTIFIC INSTRUMENTS*
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- **Diamond formation kinetics in shock-compressed C#H#O samples recorded by small-angle x-ray scattering and x-ray diffraction.** *Science advances*
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- **Towards performing high-resolution inelastic X-ray scattering measurements at hard X-ray free-electron lasers coupled with energetic laser drivers** *JOURNAL OF SYNCHROTRON RADIATION*
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- **Role of relativistic laser intensity on isochoric heating of metal wire targets** *OPTICS EXPRESS*
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- **Properties of laser-driven hard x-ray sources over a wide range of laser intensities** *PHYSICS OF PLASMAS*
Borm, B., Khaghani, D., Neumayer, P.
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- **Generation of keV hot near-solid density plasma states at high contrast laser-matter interaction** *PHYSICS OF PLASMAS*
Rosmej, O. N., Samsonova, Z., Hoefer, S., Kartashov, D., Arda, C., Khaghani, D., Schoenlein, A., Zaehter, S., Hoffmann, A., Loetzsch, R., Saevert, A., Uschmann, I., Povarnitsyn, et al
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- **Enhancement of Quasistationary Shocks and Heating via Temporal Staging in a Magnetized Laser-Plasma Jet** *PHYSICAL REVIEW LETTERS*
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● **X-Ray Emission Generated By Laser-Produced Plasmas From Dielectric Nanostructured Targets**

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● **Parameters of supersonic astrophysically-relevant plasma jets collimating via poloidal magnetic field measured by x-ray spectroscopy method**

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● **X-ray opacity measurements in mid-Z dense plasmas with a new target design of indirect heating** *HIGH ENERGY DENSITY PHYSICS*

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● **Exotic x-ray emission from dense plasmas** *JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS*

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