

Stanford



William F. Schlotter

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Bio

EDUCATION AND CERTIFICATIONS

- PhD, Stanford University , Applied Physics (2007)
- MS, Stanford University , Applied Physics
- BSE, University of Michigan , Engineering Physics (2002)

Publications

PUBLICATIONS

- **Femtosecond X-ray induced changes of the electronic and magnetic response of solids from electron redistribution.** *Nature communications* Higley, D. J., Reid, A. H., Chen, Z., Guyader, L. L., Hellwig, O., Lutman, A. A., Liu, T., Shafer, P., Chase, T., Dakovski, G. L., Mitra, A., Yuan, E., Schlappa, et al 2019; 10 (1): 5289
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- **Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement** *NANO LETTERS* Granitzka, P. W., Jal, E., Le Guyader, L., Savoini, M., Higley, D. J., Liu, T., Chen, Z., Chase, T., Ohldag, H., Dakovski, G. L., Schlotter, W. F., Carron, S., Hoffman, et al

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● **Anti-Stokes resonant x-ray Raman scattering for atom specific and excited state selective dynamics** *NEW JOURNAL OF PHYSICS*

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● **Chemical Bond Activation Observed with an X-ray Laser** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*

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● **Irreversible transformation of ferromagnetic ordered stripe domains in single-shot infrared-pump/resonant-x-ray-scattering-probe experiments** *PHYSICAL REVIEW B*

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● **X-ray emission spectroscopy of bulk liquid water in "no-man's land".** *journal of chemical physics*

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- **L-Edge X-ray Absorption Spectroscopy of Dilute Systems Relevant to Metalloproteins Using an X-ray Free-Electron Laser** *JOURNAL OF PHYSICAL CHEMISTRY LETTERS*
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- **Femtosecond Single-Shot Imaging of Nanoscale Ferromagnetic Order in Co/Pd Multilayers Using Resonant X-Ray Holography** *PHYSICAL REVIEW LETTERS*
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- **Linac Coherent Light Source soft x-ray materials science instrument optical design and monochromator commissioning** *REVIEW OF SCIENTIFIC INSTRUMENTS*
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- **Ultrafast dynamics in the bonding orbitals while CO desorbs from a Ru surface**
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● **Sub-30nm Spatial Resolution Imaging Using a Tabletop 13nm High Harmonic**

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● **Near diffraction limited coherent diffractive imaging with tabletop soft x-ray sources**

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● **Extended field of view soft x-ray Fourier transform holography: toward imaging ultrafast evolution in a single shot.** *Optics letters*

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