William Schlotter

List of Publications by Year
in descending order

36 papers	3,641 citations	236925 25 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	4715 citing authors

#	Article	IF	Citations
1	Lensless imaging of magnetic nanostructures by X-ray spectro-holography. Nature, 2004, 432, 885-888.	27.8	625
2	MAGNETOSTRICTIVE PHENOMENA IN MAGNETORHEOLOGICAL ELASTOMERS. International Journal of Modern Physics B, 2002, 16, 2412-2418.	2.0	268
3	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. Nature Materials, 2013, 12, 293-298.	27.5	267
4	Orbital-specific mapping of the ligand exchange dynamics of Fe(CO)5 in solution. Nature, 2015, 520, 78-81.	27.8	247
5	Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982.	12.6	193
6	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305.	12.6	179
7	The liquid-liquid phase transition in silicon revealed by snapshots of valence electrons. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16772-16776.	7.1	158
8	Observation of the fastest chemical processes in the radiolysis of water. Science, 2020, 367, 179-182.	12.6	149
9	Coherence Properties of Individual Femtosecond Pulses of an X-Ray Free-Electron Laser. Physical Review Letters, 2011, 107, 144801.	7.8	145
10	Speed limit of the insulatorâ€“metal transition inÂmagnetite. Nature Materials, 2013, 12, 882-886.	27.5	121
11	Multiple reference Fourier transform holography with soft x rays. Applied Physics Letters, 2006, 89, 163112.	3.3	118
12	X-ray pulse preserving single-shot optical cross-correlation method for improved experimental temporal resolution. Applied Physics Letters, 2012, 100, .	3.3	111
13	Spatially resolved ultrafast magnetic dynamics initiated at a complex oxide heterointerface. Nature Materials, 2015, 14, 883-888.	27.5	109
14	The soft x-ray instrument for materials studies at the linac coherent light source x-ray free-electron laser. Review of Scientific Instruments, 2012, 83, 043107.	1.3	103
15	Tabletop soft-x-ray Fourier transform holography with 50 nm resolution. Optics Letters, 2009, 34, 1618.	3.3	93
16	Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. Nature Communications, 2012, 3, 838.	12.8	85
17	Melting of Charge Stripes in Vibrationally Driven<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>1.875</mml:mn></mml:mr Assessing the Respective Roles of Electronic a. Physical Review Letters, 2014, 112, 157002.	7.8	82
18	X-rayâ€“optical cross-correlator for gas-phase experiments at the Linac Coherent Light Source free-electron laser. Applied Physics Letters, 2012, 100, .	3.3	76

#	Article	IF	Citations
19	Longitudinal coherence measurements of an extreme-ultraviolet free-electron laser. Optics Letters, 2010, 35, 372.	3.3	63
20	Temporal cross-correlation of x-ray free electron and optical lasers using soft x-ray pulse induced transient reflectivity. Optics Express, 2012, 20, 11396.	3.4	62
21	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). Physical Review Letters, 2013, 110, 186101.	7.8	51
22	Ultrafast time-resolved x-ray scattering reveals diffusive charge order dynamics in La _{2â€“ x} Ba _x CuO ₄. Science Advances, 2019, 5, eaax3346.	10.3	51
23	Real-Time Manifestation of Strongly Coupled Spin and Charge Order Parameters in Stripe-Ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.75</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi><mml: Crystals Using Time-Resolved Resonant X-Ray Diffraction. Physical Review Letters, 2013, 110, 127404.	7.8	48
24	Time-resolved resonant soft x-ray diffraction with free-electron lasers: Femtosecond dynamics across the Verwey transition in magnetite. Applied Physics Letters, 2011, 98, .	3.3	35
25	Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. Physical Review Letters, 2020, 124, 236001.	7.8	28
26	Near edge x-ray absorption fine structure spectroscopy with x-ray free-electron lasers. Applied Physics Letters, 2009, 95, .	3.3	25
27	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy andAbÂInitioSimulations. Physical Review Letters, 2015, 114, 156101.	7.8	25
28	Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. Science, 2022, 376, 860-864.	12.6	22
29	Pulse energy measurement at the SXR instrument. Journal of Synchrotron Radiation, 2015, 22, 606-611.	2.4	21
30	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	7.8	20
31	THE DYNAMICS OF MAGNETORHEOLOGICAL ELASTOMERS STUDIED BY SYNCHROTRON RADIATION SPECKLE ANALYSIS. International Journal of Modern Physics B, 2002, 16, 2426-2432.	2.0	19
32	Evidence for photoinduced sliding of the charge-order condensate in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow> Physical Review B, 2019, 100, .	3.2	12
33	Ultrafast dynamics of localized magnetic moments in the unconventional Mott insulator Sr₂IrO₄. Journal of Physics Condensed Matter, 2016, 28, 32LT01.	1.8	11
34	Optimal signal-to-noise ratios for soft x-ray lensless imaging. Optics Letters, 2009, 34, 650.	3.3	7
35	Ferrimagnetic stripe domain formation in antiferromagnetically-coupled Co/Ptâ€“Co/Niâ€“Co/Pt multilayers studied via soft x-ray techniques. Applied Physics Letters, 2011, 98, 172503.	3.3	6
36	X-ray detection of ultrashort spin current pulses in synthetic antiferromagnets. Journal of Applied Physics, 2020, 127, .	2.5	6