# William Schlotter

List of Publications by Year
in descending order

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Version: 2024-02-01

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhanced charge density wave coherence in a light-quenched, high-temperature superconductor. Science, 2022, 376, 860-864. | 12.6 | 22 |
| 2 | Observation of the fastest chemical processes in the radiolysis of water. Science, 2020, 367, 179-182. | 12.6 | 149 |
| 3 | Resonant Inelastic X-Ray Scattering Reveals Hidden Local Transitions of the Aqueous OH Radical. Physical Review Letters, 2020, 124, 236001. | 7.8 | 28 |
| 4 | X-ray detection of ultrashort spin current pulses in synthetic antiferromagnets. Journal of Applied Physics, 2020, 127, . | 2.5 | 6 |
| 5 | Ultrafast time-resolved x-ray scattering reveals diffusive charge order dynamics in La <sub> 2â€“ x </sub> Ba  <sub>x</sub>  CuO <sub>4</sub>. Science Advances, 2019, 5, eaax3346. | 10.3 | 51 |
| 6 | 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 |
| 7 | Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403. | 7.8 | 20 |
| 8 | Ultrafast dynamics of localized magnetic moments in the unconventional Mott insulator Sr<sub>2</sub>IrO<sub>4</sub>. Journal of Physics Condensed Matter, 2016, 28, 32LT01. | 1.8 | 11 |
| 9 | Probing the transition state region in catalytic CO oxidation on Ru. Science, 2015, 347, 978-982. | 12.6 | 193 |
| 10 | Spatially resolved ultrafast magnetic dynamics initiated at a complex oxide heterointerface. Nature Materials, 2015, 14, 883-888. | 27.5 | 109 |
| 11 | 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 |
| 12 | Pulse energy measurement at the SXR instrument. Journal of Synchrotron Radiation, 2015, 22, 606-611. | 2.4 | 21 |
| 13 | Orbital-specific mapping of the ligand exchange dynamics of Fe(CO)5 in solution. Nature, 2015, 520, 78-81. | 27.8 | 247 |
| 14 | 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> Assessing the Respective Roles of Electronic a. Physical Review Letters, 2014, 112, 157002. | 7.8 | 82 |
| 15 | Speed limit of the insulatorâ€“metal transition inÂmagnetite. Nature Materials, 2013, 12, 882-886. | 27.5 | 121 |
| 16 | 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 |
| 17 | Real-Time Observation of Surface Bond Breaking with an X-ray Laser. Science, 2013, 339, 1302-1305. | 12.6 | 179 |
| 18 | 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: Crystals Using Time-Resolved Resonant X-Ray Diffraction. Physical Review Letters, 2013, 110, 127404. | 7.8 | 48 |

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|---|---|---|---|
| 19 | Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). Physical Review Letters, 2013, 110, 186101. | 7.8 | 51 |
| 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 | 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 |
| 22 | X-ray pulse preserving single-shot optical cross-correlation method for improved experimental temporal resolution. Applied Physics Letters, 2012, 100, . | 3.3 | 111 |
| 23 | 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 |
| 24 | Phase fluctuations and the absence of topological defects in a photo-excited charge-ordered nickelate. Nature Communications, 2012, 3, 838. | 12.8 | 85 |
| 25 | 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 |
| 26 | 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 |
| 27 | Coherence Properties of Individual Femtosecond Pulses of an X-Ray Free-Electron Laser. Physical Review Letters, 2011, 107, 144801. | 7.8 | 145 |
| 28 | 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 |
| 29 | Longitudinal coherence measurements of an extreme-ultraviolet free-electron laser. Optics Letters, 2010, 35, 372. | 3.3 | 63 |
| 30 | Near edge x-ray absorption fine structure spectroscopy with x-ray free-electron lasers. Applied Physics Letters, 2009, 95, . | 3.3 | 25 |
| 31 | Optimal signal-to-noise ratios for soft x-ray lensless imaging. Optics Letters, 2009, 34, 650. | 3.3 | 7 |
| 32 | Tabletop soft-x-ray Fourier transform holography with 50 nm resolution. Optics Letters, 2009, 34, 1618. | 3.3 | 93 |
| 33 | Multiple reference Fourier transform holography with soft x rays. Applied Physics Letters, 2006, 89, 163112. | 3.3 | 118 |
| 34 | Lensless imaging of magnetic nanostructures by X-ray spectro-holography. Nature, 2004, 432, 885-888. | 27.8 | 625 |
| 35 | THE DYNAMICS OF MAGNETORHEOLOGICAL ELASTOMERS STUDIED BY SYNCHROTRON RADIATION SPECKLE ANALYSIS. International Journal of Modern Physics B, 2002, 16, 2426-2432. | 2.0 | 19 |
| 36 | MAGNETOSTRICTIVE PHENOMENA IN MAGNETORHEOLOGICAL ELASTOMERS. International Journal of Modern Physics B, 2002, 16, 2412-2418. | 2.0 | 268 |