

# Christian Schuessler-Langeheine

## List of Publications by Year in descending order

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79  
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236925

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docs citations

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times ranked

3228  
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#	ARTICLE	IF	CITATIONS
1	Ultrafast probe of magnetization dynamics in multiferoic $\text{CoCr}_2\text{O}_4$ and $\text{Co}_9\text{S}_8$ . <i>Physical Review B</i> , 2022, 105, .	3.2	2
2	Exchange scaling of ultrafast angular momentum transfer in 4f antiferromagnets. <i>Nature Materials</i> , 2022, 21, 514-517.	27.5	12
3	Experimental confirmation of the delayed Ni demagnetization in FeNi alloy. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
4	Photo-induced antiferromagnetic-ferromagnetic and spin-state transition in a double-perovskite cobalt oxide thin film. <i>Communications Physics</i> , 2022, 5, .	5.3	3
5	Photoinduced transient states of antiferromagnetic orderings in $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_3$ and $\text{SrFeO}_3$ thin films observed through time-resolved resonant soft x-ray scattering. <i>New Journal of Physics</i> , 2022, 24, 043012.	2.9	1
6	Microstructure effects on the phase transition behavior of a prototypical quantum material. <i>Scientific Reports</i> , 2022, 12, .	3.3	0
7	Soft x-ray imaging spectroscopy with micrometer resolution. <i>Optica</i> , 2021, 8, 156.	9.3	6
8	Ultrafast Optically Induced Ferromagnetic State in an Elemental Antiferromagnet. <i>Physical Review Letters</i> , 2021, 126, 107202.	7.8	22
9	Large response of charge stripes to uniaxial stress in $\text{La}_{1-x}\text{Sr}_x\text{NiO}_3$ . <i>Physical Review Research</i> , 2021, 3, .	3.6	1.47
10	Measurement of Spin Dynamics in a Layered Nickelate Using X-Ray Photon Correlation Spectroscopy: Evidence for Intrinsic Destabilization of Incommensurate Stripes at Low Temperatures. <i>Physical Review Letters</i> , 2021, 127, 057001.	7.8	6
11	Using the photoinduced L3 resonance shift in Fe and Ni as time reference for ultrafast experiments at low flux soft x-ray sources. <i>Structural Dynamics</i> , 2021, 8, 044304.	2.3	1
12	Tailoring Vanadium Dioxide Film Orientation Using Nanosheets: a Combined Microscopy, Diffraction, Transport, and Soft X-Ray in Transmission Study. <i>Advanced Functional Materials</i> , 2020, 30, 1900028.	14.9	16
13	Charge disproportionation and nano phase separation in $\text{SrNiO}_4$ . <i>Scientific Reports</i> , 2020, 10, 18012.	3.3	2
14	Deterministic control of an antiferromagnetic spin arrangement using ultrafast optical excitation. <i>Communications Physics</i> , 2020, 3, .	5.3	10
15	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6947.	2.5	7
16	Accelerating the laser-induced demagnetization of a ferromagnetic film by antiferromagnetic order in an adjacent layer. <i>Physical Review B</i> , 2020, 102, .	3.2	5
17	Direct Visualization of Spatial Inhomogeneity of Spin Stripes Order in $\text{La}_{1.72}\text{Sr}_{0.28}\text{NiO}_4$ . <i>Condensed Matter</i> , 2019, 4, 77.	1.8	10
18	Strain analysis from M-edge resonant inelastic X-ray scattering of nickel oxide films. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21596-21602.	2.8	2

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19	Probing the non-equilibrium transient state in magnetite by a jitter-free two-color X-ray pump and X-ray probe experiment. <i>Structural Dynamics</i> , 2018, 5, 054501.	2.3	6
20	Magnetic field effect in stripe-ordered $214(\text{La}_{1.6}\text{Nd}_{0.4})\text{SrxCuO}_4$ and $\text{La}_{2-x}\text{BaxCuO}_4$ superconducting cuprates studied by resonant soft x-ray scattering. <i>Physical Review B</i> , 2018, 97, .	3.2	2
21	Influence of the pump pulse wavelength on the ultrafast demagnetization of $\text{Gd}(\text{O})_1$ thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 234003.	1.8	9
22	Ultrafast and Energy-Efficient Quenching of Spin Order: Antiferromagnetism Beats Ferromagnetism. <i>Physical Review Letters</i> , 2017, 119, 197202.	7.8	49
23	Photoinduced Demagnetization and Insulator-to-Metal Transition in Ferromagnetic Insulating $\text{BaFeO}_3$ Thin Films. <i>Physical Review Letters</i> , 2016, 116, 256402.	7.8	20
24	Itinerant and Localized Magnetization Dynamics in Antiferromagnetic Ho. <i>Physical Review Letters</i> , 2016, 116, 257202.	7.8	27
25	Analysis of the halo background in femtosecond slicing experiments. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 700-711.	2.4	9
26	Polarization dependent hard X-ray photoemission experiments for solids: Efficiency and limits for unraveling the orbital character of the valence band. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2015, 198, 6-11.	1.7	33
27	FemtoSpeX: a versatile optical pump-soft X-ray probe facility with 100-fs X-ray pulses of variable polarization. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1090-1104.	2.4	71
28	Speed limit of the insulator-metal transition in Magnetite. <i>Nature Materials</i> , 2013, 12, 882-886.	27.5	121
29	Stimulated X-ray emission for materials science. <i>Nature</i> , 2013, 501, 191-194.	27.8	102
30	Electronic superlattice revealed by resonant scattering from random impurities in $\text{Sr}_3\text{Ru}_2\text{O}_7$ . <i>Scientific Reports</i> , 2013, 3, 2299.	3.3	10
31	Analysis of Charge and Orbital Order in $\text{FeO}_3$	3.2	7
32	Time resolved resonant inelastic X-ray scattering: A supreme tool to understand dynamics in solids and molecules. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 172-182.	1.7	18
33	The confocal plane grating spectrometer at BESSY II. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 133-139.	1.7	9
34	Time and momentum resolved resonant magnetic x-ray diffraction on $\text{EuTe}$ . <i>EPJ Web of Conferences</i> , 2013, 41, 03014.	0.3	0
35	Symmetry of Orbital Order in $\text{FeO}_4$ Studied by $\text{FeL}_{2,3}$ X-Ray Diffraction. <i>Physical Review Letters</i> , 2012, 108, 227203	7.8	21
36	Spin-state order/disorder and metal-insulator transition in $\text{GdBaCo}_2\text{O}_{5.5}$ : experimental determination of the underlying electronic structure. <i>New Journal of Physics</i> , 2012, 14, 123025.	2.9	48

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37	Charge stripe order near the surface of 12-percent doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Nature Communications, 2012, 3, 1023.	12.8	46
38	Resonant soft x-ray scattering from stepped surfaces of $\text{SrTiO}_3$ . Journal of Physics Condensed Matter, 2012, 24, 035501.	1.8	13
39	Magnetic Domain Fluctuations in an Antiferromagnetic Film Observed with Coherent Resonant Soft X-Ray Scattering. Physical Review Letters, 2011, 106, 077402.	7.8	31
40	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
41	Intrinsic and extrinsic x-ray absorption effects in soft x-ray diffraction from the superstructure in magnetite. Physical Review B, 2011, 83, .	3.2	8
42	Depth-resolved magnetic structure across the ferromagnetic to helical-antiferromagnetic phase transition in $\text{Dy/W}(110)$ . Physical Review B, 2010, 82, .	3.2	5
43	Epitaxy, stoichiometry, and magnetic properties of Gd-doped EuO films on YSZ (001). Physical Review B, 2009, 80, .	3.2	45
44	Epitaxial and layer-by-layer growth of EuO thin films on yttria-stabilized cubic zirconia (001) using MBE distillation. Physical Review B, 2009, 79, .	3.2	79
45	Resonant soft x-ray scattering studies of interface reconstructions in $\text{SrTiO}_3/\text{LaAlO}_3$ superlattices. Journal of Applied Physics, 2009, 106, 083705.	2.5	22
46	Magnetic Structure of $\text{RuSr}_2\text{GdCu}_8\text{O}_{26}$ Determined by Resonant X-Ray Diffraction. Physical Review Letters, 2009, 102, 037205.	7.8	26
47	Resonant soft X-ray diffraction as a probe for complex magnetic structures. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s68-s68.	0.3	0
48	Magnetic structure and orbital state of $\text{Ca}_3\text{Ru}_2\text{O}_7$ investigated by resonant x-ray diffraction. Physical Review B, 2008, 77, .	3.2	24
49	Direct Observation of $\text{t}_2\text{g}^2\text{e}_g^1$ Ordering in Magnetite. Physical Review Letters, 2008, 100, 026406.	7.8	77
50	Transfer of Spectral Weight and Symmetry across the Metal-Insulator Transition in $\text{VO}_2$ . Physical Review Letters, 2006, 97, 116402.	7.8	271
51	Magnetic x-ray scattering at the $M_5$ absorption edge of Ho. Physical Review B, 2006, 74, .	3.2	24
52	Magnetic depth profiles from resonant soft x-ray scattering: Application to Dy thin films. Applied Physics Letters, 2006, 88, 212507.	3.3	11
53	Resonant magnetic X-ray scattering at the lanthanide $M_5$ edges. Physica B: Condensed Matter, 2005, 357, 16-21.	2.7	5
54	Spectroscopy of Stripe Order in $\text{La}_{1.8}\text{Sr}_{0.2}\text{NiO}_4$ Using Resonant Soft X-Ray Diffraction. Physical Review Letters, 2005, 95, 156402.	7.8	59

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55	Determination of the Orbital Moment and Crystal-Field Splitting in LaTiO <sub>3</sub> . Physical Review Letters, 2005, 94, 056401.	7.8	64
56	Comment on "Temperature-Dependent Fermi Gap Opening in the c(6 $\sqrt{3}$ ×4)C <sub>60</sub> /Ag(001) Two-Dimensional Superstructure". Physical Review Letters, 2004, 93, 119701; author reply 119702.	7.8	6
57	Finite-Size Effect on Magnetic Ordering Temperatures in Long-Period Antiferromagnets: Holmium Thin Films. Physical Review Letters, 2004, 93, 157204.	7.8	83
58	Metal-insulator crossover behavior at the surface of NiS <sub>2</sub> . Physical Review B, 2003, 67, .	3.2	33
59	Oxygen-induced magnetic surface states on the (0001) surfaces of heavy lanthanide metals. Physical Review B, 2002, 65, .	3.2	8
60	Difference in spin state and covalence between La <sup>1+</sup> Sr CoO <sub>3</sub> and La <sup>2+</sup> Sr Li <sub>0.5</sub> Co <sub>0.5</sub> O <sub>4</sub> . Journal of Alloys and Compounds, 2002, 343, 5-13.	5.5	36
61	Magnetic effects in the band structure of ferromagnetic and antiferromagnetic lanthanide metal films. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 795-799.	1.7	2
62	Resonant magnetic X-ray scattering from ultrathin Ho metal films down to a few atomic layers. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 953-957.	1.7	23
63	Magnetic Splitting of Valence States in Ferromagnetic and Antiferromagnetic Lanthanide Metals. Physical Review Letters, 2000, 84, 5624-5627.	7.8	32
64	Growth studies of hetero-epitaxial thin films with x-rays. , 1999, , 541-550.		0
65	New Low-Temperature Phase of Yb Metal and its Relation to $\pm$ -Ce. Physical Review Letters, 1999, 83, 584-587.	7.8	8
66	O <sup>2+</sup> phases in tetravalent oxides of Ce and Pr and the Fehrenbacher-Rice hybrid in PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review B, 1999, 60, 1460-1463.	3.2	27
67	Magnetic circular dichroism in Tb <sub>3d</sub> resonant photoemission. Physical Review B, 1999, 59, 8835-8843.	3.2	26
68	Spin flip in resonant photoemission from Gd. Physical Review B, 1999, 59, 9737-9740.	3.2	10
69	Magnetically ordered surface oxide on Gd(0001). Physical Review B, 1999, 60, 3449-3452.	3.2	18
70	On the existence of monoxides on close-packed surfaces of lanthanide metals. Chemical Physics Letters, 1998, 292, 507-514.	2.6	16
71	Electronic Structure of NiS <sub>1-x</sub> Sex across the Phase Transition. Physical Review Letters, 1998, 80, 1284-1287.	7.8	19
72	q-Dependence of the Growth-Oscillation Period of X-Ray Reflectivity in Heteroepitaxy: Ho/W(110). Physical Review Letters, 1997, 79, 3954-3957.	7.8	38

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73	Evidence for Stoner-like behavior of the surface state on Gd(0001). Surface Science, 1997, 377-379, 487-490.	1.9	2
74	Temperature Dependence of the Exchange Splitting of the Surface State on Gd(0001): Evidence against Spin-Mixing Behavior. Physical Review Letters, 1996, 77, 3415-3418.	7.8	67
75	Temperature-dependent study of the partially filled surface state on Tb(0001). Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 535-539.	1.7	6
76	Thermal effects on photoemission spectra of lanthanide metals. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 571-576.	1.7	7
77	Surface core-level shifts and surface states for the heavy lanthanide metals. Physical Review B, 1995, 51, 7920-7923.	3.2	46
78	The FemtoSpeX facility at BESSY II. Journal of Large-scale Research Facilities JLSRF, 0, 2, A46.	0.0	3
79	Ultrafast manipulation of the NiO antiferromagnetic order <i>via</i> sub-gap optical excitation. Faraday Discussions, 0, 237, 300-316.	3.2	4