

Christian Schuessler-Langeheine

List of Publications by Year in descending order

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79
papers

2,046
citations

236925

25
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243625

44
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81
all docs

81
docs citations

81
times ranked

3228
citing authors

#	ARTICLE	IF	CITATIONS
1	Transfer of Spectral Weight and Symmetry across the Metal-Insulator Transition in VO ₂ . Physical Review Letters, 2006, 97, 116402.	7.8	271
2	Speed limit of the insulator-metal transition in magnetite. Nature Materials, 2013, 12, 882-886.	27.5	121
3	Stimulated X-ray emission for materials science. Nature, 2013, 501, 191-194.	27.8	102
4	Finite-Size Effect on Magnetic Ordering Temperatures in Long-Period Antiferromagnets: Holmium Thin Films. Physical Review Letters, 2004, 93, 157204.	7.8	83
5	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
6	Direct Observation of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">t^2/g^2 \rangle$ Ordering in Magnetite. Physical Review Letters, 2008, 100, 026406.	7.8	77
7	FemtoSpeX: a versatile optical pump-soft X-ray probe facility with 100-fs X-ray pulses of variable polarization. Journal of Synchrotron Radiation, 2014, 21, 1090-1104.	2.4	71
8	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
9	Determination of the Orbital Moment and Crystal-Field Splitting in LaTiO ₃ . Physical Review Letters, 2005, 94, 056401.	7.8	64
10	Spectroscopy of Stripe Order in La _{1.8} Sr _{0.2} NiO ₄ Using Resonant Soft X-Ray Diffraction. Physical Review Letters, 2005, 95, 156402.	7.8	59
11	Ultrafast and Energy-Efficient Quenching of Spin Order: Antiferromagnetism Beats Ferromagnetism. Physical Review Letters, 2017, 119, 197202.	7.8	49
12	Spin-state order/disorder and metal-insulator transition in GdBaCo ₂ O _{5.5} : experimental determination of the underlying electronic structure. New Journal of Physics, 2012, 14, 123025.	2.9	48
13	Surface core-level shifts and surface states for the heavy lanthanide metals. Physical Review B, 1995, 51, 7920-7923.	3.2	46
14	Charge stripe order near the surface of 12-percent doped La _{2-x} Sr _x CuO ₄ . Nature Communications, 2012, 3, 1023.	12.8	46
15	Epitaxy, stoichiometry, and magnetic properties of Gd-doped EuO films on YSZ (001). Physical Review B, 2009, 80, .	3.2	45
16	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
17	Difference in spin state and covalence between La ^{1-x} Sr ^x CoO ₃ and La ^{2-x} Sr ^x Li _{0.5} Co _{0.5} O ₄ . Journal of Alloys and Compounds, 2002, 343, 5-13.	5.5	36
18	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

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19	Metal-insulator crossover behavior at the surface of NiS ₂ . Physical Review B, 2003, 67, .	3.2	33
20	Polarization dependent hard X-ray photoemission experiments for solids: Efficiency and limits for unraveling the orbital character of the valence band. Journal of Electron Spectroscopy and Related Phenomena, 2015, 198, 6-11.	1.7	33
21	Magnetic Splitting of Valence States in Ferromagnetic and Antiferromagnetic Lanthanide Metals. Physical Review Letters, 2000, 84, 5624-5627.	7.8	32
22	Magnetic Domain Fluctuations in an Antiferromagnetic Film Observed with Coherent Resonant Soft X-Ray Scattering. Physical Review Letters, 2011, 106, 077402.	7.8	31
23	d ² holes in tetravalent oxides of Ce and Pr and the Fehrenbacher-Rice hybrid in PrBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1999, 60, 1460-1463.	3.2	27
24	Itinerant and Localized Magnetization Dynamics in Antiferromagnetic Ho. Physical Review Letters, 2016, 116, 257202.	7.8	27
25	Magnetic circular dichroism in Tb ³⁺ resonant photoemission. Physical Review B, 1999, 59, 8835-8843.	3.2	26
26	Magnetic Structure of RuSr ₂ GdCu ₈ O ₈ Determined by Resonant X-Ray Diffraction. Physical Review Letters, 2009, 102, 037205.	7.8	26
27	Magnetic x-ray scattering at the M ₅ absorption edge of Ho. Physical Review B, 2006, 74, .	3.2	24
28	Magnetic structure and orbital state of Ca ₃ Ru ₂ O ₇ investigated by resonant x-ray diffraction. Physical Review B, 2008, 77, .	3.2	24
29	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
30	Resonant soft x-ray scattering studies of interface reconstructions in SrTiO ₃ /LaAlO ₃ superlattices. Journal of Applied Physics, 2009, 106, 083705.	2.5	22
31	Ultrafast Optically Induced Ferromagnetic State in an Elemental Antiferromagnet. Physical Review Letters, 2021, 126, 107202.	7.8	22
32	Symmetry of Orbital Order in Fe ₃ O ₄ Studied by X-Ray Diffraction. Physical Review Letters, 2012, 108, 227203.	7.8	21
33	Photoinduced Demagnetization and Insulator-to-Metal Transition in Ferromagnetic Insulating BaFeO ₃ Thin Films. Physical Review Letters, 2016, 116, 256402.	7.8	20
34	Electronic Structure of NiS _{1-x} Se _x across the Phase Transition. Physical Review Letters, 1998, 80, 1284-1287.	7.8	19
35	Magnetically ordered surface oxide on Gd(0001). Physical Review B, 1999, 60, 3449-3452.	3.2	18
36	Time resolved resonant inelastic X-ray scattering: A supreme tool to understand dynamics in solids and molecules. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 172-182.	1.7	18

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37	On the existence of monoxides on close-packed surfaces of lanthanide metals. <i>Chemical Physics Letters</i> , 1998, 292, 507-514.	2.6	16
38	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
39	Resonant soft x-ray scattering from stepped surfaces of SrTiO ₃ . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 035501.	1.8	13
40	Exchange scaling of ultrafast angular momentum transfer in 4f antiferromagnets. <i>Nature Materials</i> , 2022, 21, 514-517.	27.5	12
41	Magnetic depth profiles from resonant soft x-ray scattering: Application to Dy thin films. <i>Applied Physics Letters</i> , 2006, 88, 212507.	3.3	11
42	Spin flip in resonant photoemission from Gd. <i>Physical Review B</i> , 1999, 59, 9737-9740.	3.2	10
43	Electronic superlattice revealed by resonant scattering from random impurities in Sr ₃ Ru ₂ O ₇ . <i>Scientific Reports</i> , 2013, 3, 2299.	3.3	10
44	Direct Visualization of Spatial Inhomogeneity of Spin Stripes Order in La _{1.72} Sr _{0.28} NiO ₄ . <i>Condensed Matter</i> , 2019, 4, 77.	1.8	10
45	Deterministic control of an antiferromagnetic spin arrangement using ultrafast optical excitation. <i>Communications Physics</i> , 2020, 3, .	5.3	10
46	The confocal plane grating spectrometer at BESSY II. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 188, 133-139.	1.7	9
47	Influence of the pump pulse wavelength on the ultrafast demagnetization of Gd(O ₂) _{1-x} thin films. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 234003.	1.8	9
48	Analysis of the halo background in femtosecond slicing experiments. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 700-711.	2.4	9
49	New Low-Temperature Phase of Yb Metal and its Relation to \pm -Ce. <i>Physical Review Letters</i> , 1999, 83, 584-587.	7.8	8
50	Oxygen-induced magnetic surface states on the (0001) surfaces of heavy lanthanide metals. <i>Physical Review B</i> , 2002, 65, .	3.2	8
51	Intrinsic and extrinsic x-ray absorption effects in soft x-ray diffraction from the superstructure in magnetite. <i>Physical Review B</i> , 2011, 83, .	3.2	8
52	Experimental confirmation of the delayed Ni demagnetization in FeNi alloy. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
53	Thermal effects on photoemission spectra of lanthanide metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 571-576.	1.7	7
54	Analysis of charge and orbital order in Fe ₃ O ₄ by Fe _L x-ray absorption spectroscopy. <i>Physical Review B</i> , 2011, 83, 114407.	3.2	7

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55	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. Applied Sciences (Switzerland), 2020, 10, 6947.	2.5	7
56	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
57	Comment on "Temperature-Dependent Fermi Gap Opening in the $C_{60}/Ag(001)$ Two-Dimensional Superstructure". Physical Review Letters, 2004, 93, 119701; author reply 119702.	7.8	6
58	Probing the non-equilibrium transient state in magnetite by a jitter-free two-color X-ray pump and X-ray probe experiment. Structural Dynamics, 2018, 5, 054501.	2.3	6
59	Soft x-ray imaging spectroscopy with micrometer resolution. Optica, 2021, 8, 156.	9.3	6
60	Large response of charge stripes to uniaxial stress in $La_{1-x}Sr_xNiO_3$. Physical Review Research, 2021, 3, .	1.475	6
61	Measurement of Spin Dynamics in a Layered Nickelate Using X-Ray Photon Correlation Spectroscopy: Evidence for Intrinsic Destabilization of Incommensurate Stripes at Low Temperatures. Physical Review Letters, 2021, 127, 057001.	7.8	6
62	Resonant magnetic X-ray scattering at the lanthanide M5 edges. Physica B: Condensed Matter, 2005, 357, 16-21.	2.7	5
63	Depth-resolved magnetic structure across the ferromagnetic to helical-antiferromagnetic phase transition in Dy/W(110). Physical Review B, 2010, 82, .	3.2	5
64	Accelerating the laser-induced demagnetization of a ferromagnetic film by antiferromagnetic order in an adjacent layer. Physical Review B, 2020, 102, .	3.2	5
65	Ultrafast manipulation of the NiO antiferromagnetic order via sub-gap optical excitation. Faraday Discussions, 0, 237, 300-316.	3.2	4
66	The FemtoSpeX facility at BESSY II. Journal of Large-scale Research Facilities JLSRF, 0, 2, A46.	0.0	3
67	Photo-induced antiferromagnetic-ferromagnetic and spin-state transition in a double-perovskite cobalt oxide thin film. Communications Physics, 2022, 5, .	5.3	3
68	Evidence for Stoner-like behavior of the surface state on Gd(0001). Surface Science, 1997, 377-379, 487-490.	1.9	2
69	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
70	Magnetic field effect in stripe-ordered $La_{1.6}Sr_{0.4}Sr_xCuO_4$ and $La_{2-x}Ba_xCuO_4$ superconducting cuprates studied by resonant soft x-ray scattering. Physical Review B, 2018, 97, .	3.2	2
71	Strain analysis from M-edge resonant inelastic X-ray scattering of nickel oxide films. Physical Chemistry Chemical Physics, 2019, 21, 21596-21602.	2.8	2
72	Charge disproportionation and nano phase separation in $SrNiO_{3-x}$. Scientific Reports, 2020, 10, 18012.	3.3	2

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73	Ultrafast probe of magnetization dynamics in multiferroic CoCr_2O_4 and $\text{Co}_0.975\text{Fe}_0.025\text{O}_4$. Physical Review B, 2022, 105, .	3.2	2
74	Using the photoinduced L3 resonance shift in Fe and Ni as time reference for ultrafast experiments at low flux soft x-ray sources. Structural Dynamics, 2021, 8, 044304.	2.3	1
75	Photoinduced transient states of antiferromagnetic orderings in $\text{La}_{1/3}\text{Sr}_{2/3}\text{FeO}_3$ and SrFeO_3 thin films observed through time-resolved resonant soft x-ray scattering. New Journal of Physics, 2022, 24, 043012.	2.9	1
76	Growth studies of hetero-epitaxial thin films with x-rays. , 1999, , 541-550.		0
77	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
78	Time and momentum resolved resonant magnetic x-ray diffraction on EuTe. EPJ Web of Conferences, 2013, 41, 03014.	0.3	0
79	Microstructure effects on the phase transition behavior of a prototypical quantum material. Scientific Reports, 2022, 12, .	3.3	0