

Christian Stamm

List of Publications by Year in descending order

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50
papers

4,577
citations

257450

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233421

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all docs

50
docs citations

50
times ranked

4546
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray detection of ultrashort spin current pulses in synthetic antiferromagnets. Journal of Applied Physics, 2020, 127, .	2.5	6
2	X-ray spectroscopy of current-induced spin-orbit torques and spin accumulation in Pt/Co -transition-metal bilayers. Physical Review B, 2019, 100, .	8.2	13
3	Magnetic Properties of Metal-Organic Coordination Networks Based on 3d Transition Metal Atoms. Molecules, 2018, 23, 964.	3.8	9
4	Magneto-Optical Detection of the Spin Hall Effect in Pt and W Thin Films. Physical Review Letters, 2017, 119, 087203.	7.8	102
5	Spatially and time-resolved magnetization dynamics driven by spin-orbit torques. Nature Nanotechnology, 2017, 12, 980-986.	31.5	217
6	Spin currents during ultrafast demagnetization of ferromagnetic bilayers. Journal of Physics Condensed Matter, 2017, 29, 384002.	1.8	25
7	Exchange bias of TbPc_2 magnets on antiferromagnetic FeMn and ferromagnetic Fe films. Physical Review B, 2015, 92, .	1.2	25
8	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. Springer Proceedings in Physics, 2015, , 30-31.	0.2	0
9	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. Spin, 2015, 05, 1550004.	1.3	81
10	Engineering Ultrafast Magnetism. Springer Proceedings in Physics, 2015, , 297-299.	0.2	1
11	Element- and time-resolved dynamics in rare-earth/transition metals alloys. Springer Proceedings in Physics, 2015, , 310-312.	0.2	0
12	The role of space charge in spin-resolved photoemission experiments. New Journal of Physics, 2014, 16, 043031.	2.9	9
13	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. Surface Science, 2014, 630, 361-374.	1.9	49
14	Ultrafast reduction of the total magnetization in iron. Applied Physics Letters, 2014, 104, .	3.3	22
15	Reply to 'Optical excitation of thin magnetic layers in multilayer structures'. Nature Materials, 2014, 13, 102-103.	27.5	11
16	Ultrafast angular momentum transfer in multisublattice ferrimagnets. Nature Communications, 2014, 5, 3466.	12.8	91
17	Role of spin-lattice coupling in the ultrafast demagnetization of Gd/Co Physical Review B, 2014, 89, .	3.2	36
18	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

#	ARTICLE	IF	CITATIONS
19	Ultrafast spin transport as key to femtosecond demagnetization. <i>Nature Materials</i> , 2013, 12, 332-336.	27.5	262
20	Role of critical spin fluctuations in ultrafast demagnetization of transition-metal rare-earth alloys. <i>Physical Review B</i> , 2013, 87, .	3.2	50
21	A novel monochromator for experiments with ultrashort X-ray pulses. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 522-530.	2.4	27
22	Time-resolved x-ray magnetic circular dichroism study of ultrafast demagnetization in a CoPd ferromagnetic film excited by circularly polarized laser pulse. <i>Physical Review B</i> , 2012, 86, .	3.2	30
23	Ultrafast magnetism as seen by x-rays. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
24	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011, 472, 205-208.	27.8	828
25	Hot-Electron-Driven Enhancement of Spin-Lattice Coupling in Gd and Tb $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Ferromagnets Observed by Femtosecond X-Ray Magnetic Circular Dichroism. <i>Physical Review Letters</i> , 2011, 106, 127401.	7.8	151
26	Distinguishing the ultrafast dynamics of spin and orbital moments in solids. <i>Nature</i> , 2010, 465, 458-461.	27.8	362
27	Laser-induced generation and quenching of magnetization on FeRh studied with time-resolved x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2010, 81, .	3.2	61
28	Femtosecond x-ray absorption spectroscopy of spin and orbital angular momentum in photoexcited Ni films during ultrafast demagnetization. <i>Physical Review B</i> , 2010, 81, .	3.2	61
29	Transient electronic and magnetic structures of nickel heated by ultrafast laser pulses. <i>Physical Review B</i> , 2009, 80, .	3.2	23
30	Layer resolved magnetization dynamics in coupled magnetic films using time-resolved x-ray magnetic circular dichroism with continuous wave excitation. <i>Journal of Applied Physics</i> , 2009, 105, 07D310.	2.5	18
31	Ultrashort soft x-ray pulses from a femtosecond slicing source for time-resolved laser pump- x-ray probe experiments. <i>Springer Series in Chemical Physics</i> , 2009, , 119-121.	0.2	1
32	X-ray Absorption Spectroscopy on the fs Time Scale: Ultrafast Electron and Spin Dynamics in Nickel. <i>Springer Series in Chemical Physics</i> , 2009, , 194-196.	0.2	0
33	Antiferromagnetic-ferromagnetic phase transition in FeRh probed by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2008, 77, .	3.2	79
34	Ultrafast Electron and Spin Dynamics in Nickel Probed With Femtosecond X-Ray Pulses. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1957-1961.	2.1	6
35	Layer resolved magnetization dynamics in interlayer exchange coupled Ni ₈₁ Fe ₁₉ •Ru•Co ₉₀ Fe ₁₀ by time resolved x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	27
36	Soft X-Ray Beamline for fs Pulses from the BESSY fs-Slicing Source. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	3

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37	Femtosecond modification of electron localization and transfer of angular momentum in nickel. Nature Materials, 2007, 6, 740-743.	27.5	464
38	Dissipation of Spin Angular Momentum in Magnetic Switching. Physical Review Letters, 2005, 94, 197603.	7.8	23
39	The ultimate speed of magnetic switching in granular recording media. Nature, 2004, 428, 831-833.	27.8	254
40	Domain configuration in perpendicularly magnetized atomically thin iron particles. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1137-1139.	2.3	2
41	Ultra-Thin Magnetic Films with Finite Lateral Size. , 2001, , 335-349.		0
42	Chemical effects at metal/oxide interfaces studied by x-ray-absorption spectroscopy. Physical Review B, 2001, 64, .	3.2	533
43	Spectroscopic Identification and Direct Imaging of Interfacial Magnetic Spins. Physical Review Letters, 2001, 87, 247201.	7.8	223
44	Two-Step Disorder of Perpendicularly Magnetized Ultrathin Films. Physical Review Letters, 2000, 84, 2247-2250.	7.8	92
45	Ultrathin magnetic particles. Journal of Applied Physics, 1999, 85, 6166-6168.	2.5	17
46	Amplification of the short-wavelength oscillations in exchange coupled Co-films by low-temperature deposition. Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1279-1280.	2.3	6
47	Two-Dimensional Magnetic Particles. , 1998, 282, 449-451.		144
48	Shifted magnetization curves in ultrathin Co films on stepped Cu(100). IEEE Transactions on Magnetics, 1998, 34, 1195-1197.	2.1	6
49	Quantum oscillations in a confined electron gas. Nature, 1997, 389, 937-939.	27.8	36
50	Magnetization reversal in the picosecond range measured with time-resolved magneto-optical Kerr effect. Applied Physics Letters, 1996, 68, 1729-1731.	3.3	17