

# Christian Stamm

## List of Publications by Year in descending order

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50  
papers

4,577  
citations

257450

24  
h-index

233421

45  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011, 472, 205-208.	27.8	828
2	Chemical effects at metal/oxide interfaces studied by x-ray-absorption spectroscopy. <i>Physical Review B</i> , 2001, 64, .	3.2	533
3	Femtosecond modification of electron localization and transfer of angular momentum in nickel. <i>Nature Materials</i> , 2007, 6, 740-743.	27.5	464
4	Distinguishing the ultrafast dynamics of spin and orbital moments in solids. <i>Nature</i> , 2010, 465, 458-461.	27.8	362
5	Ultrafast spin transport as key to femtosecond demagnetization. <i>Nature Materials</i> , 2013, 12, 332-336.	27.5	262
6	The ultimate speed of magnetic switching in granular recording media. <i>Nature</i> , 2004, 428, 831-833.	27.8	254
7	Spectroscopic Identification and Direct Imaging of Interfacial Magnetic Spins. <i>Physical Review Letters</i> , 2001, 87, 247201.	7.8	223
8	Spatially and time-resolved magnetization dynamics driven by spin-orbit torques. <i>Nature Nanotechnology</i> , 2017, 12, 980-986.	31.5	217
9	Hot-Electron-Driven Enhancement of Spin-Lattice Coupling in Gd and Tb $\langle \mathbf{S} \cdot \mathbf{L} \rangle$ FerroMagnets Observed by Femtosecond X-Ray Magnetic Circular Dichroism. <i>Physical Review Letters</i> , 2011, 106, 127401.	7.8	151
10	Two-Dimensional Magnetic Particles. , 1998, 282, 449-451.		144
11	Magneto-Optical Detection of the Spin Hall Effect in Pt and W Thin Films. <i>Physical Review Letters</i> , 2017, 119, 087203.	7.8	102
12	Two-Step Disorder of Perpendicularly Magnetized Ultrathin Films. <i>Physical Review Letters</i> , 2000, 84, 2247-2250.	7.8	92
13	Ultrafast angular momentum transfer in multisublattice ferrimagnets. <i>Nature Communications</i> , 2014, 5, 3466.	12.8	91
14	Ultrafast and Distinct Spin Dynamics in Magnetic Alloys. <i>Spin</i> , 2015, 05, 1550004.	1.3	81
15	Antiferromagnetic-ferromagnetic phase transition in FeRh probed by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2008, 77, .	3.2	79
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Role of critical spin fluctuations in ultrafast demagnetization of transition-metal rare-earth alloys. Physical Review B, 2013, 87, .	3.2	50
20	Coupling of single, double, and triple-decker metal-phthalocyanine complexes to ferromagnetic and antiferromagnetic substrates. Surface Science, 2014, 630, 361-374.	1.9	49
21	Quantum oscillations in a confined electron gas. Nature, 1997, 389, 937-939.	27.8	36
22	Role of spin-lattice coupling in the ultrafast demagnetization of $Gd_{1-x}Co_x$ . Physical Review B, 2014, 89, .	3.2	36
23	Time-resolved x-ray magnetic circular dichroism study of ultrafast demagnetization in a CoPd ferromagnetic film excited by circularly polarized laser pulse. Physical Review B, 2012, 86, .	3.2	30
24	Layer resolved magnetization dynamics in interlayer exchange coupled $Ni_{81}Fe_{19}Ru_{1-x}Co_{90}Fe_{10}$ by time resolved x-ray magnetic circular dichroism. Journal of Applied Physics, 2008, 103, .	2.5	27
25	A novel monochromator for experiments with ultrashort X-ray pulses. Journal of Synchrotron Radiation, 2013, 20, 522-530.	2.4	27
26	Spin currents during ultrafast demagnetization of ferromagnetic bilayers. Journal of Physics Condensed Matter, 2017, 29, 384002.	1.8	25
27	Exchange bias of $Tb_{1-x}Pc_x$ magnets on antiferromagnetic FeMn and ferromagnetic Fe films. Physical Review B, 2015, 92, .	3.2	24
28	Dissipation of Spin Angular Momentum in Magnetic Switching. Physical Review Letters, 2005, 94, 197603.	7.8	23
29	Transient electronic and magnetic structures of nickel heated by ultrafast laser pulses. Physical Review B, 2009, 80, .	3.2	23
30	Ultrafast reduction of the total magnetization in iron. Applied Physics Letters, 2014, 104, .	3.3	22
31	Layer resolved magnetization dynamics in coupled magnetic films using time-resolved x-ray magnetic circular dichroism with continuous wave excitation. Journal of Applied Physics, 2009, 105, 07D310.	2.5	18
32	Magnetization reversal in the picosecond range measured with time-resolved magneto-optical Kerr effect. Applied Physics Letters, 1996, 68, 1729-1731.	3.3	17
33	Ultrathin magnetic particles. Journal of Applied Physics, 1999, 85, 6166-6168.	2.5	17
34	X-ray spectroscopy of current-induced spin-orbit torques and spin accumulation in $Pt_{1-x}Co_x$ -transition-metal bilayers. Physical Review B, 2019, 100, .	3.2	13
35	Reply to 'Optical excitation of thin magnetic layers in multilayer structures'. Nature Materials, 2014, 13, 102-103.	27.5	11
36	The role of space charge in spin-resolved photoemission experiments. New Journal of Physics, 2014, 16, 043031.	2.9	9

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37	Magnetic Properties of Metal-Organic Coordination Networks Based on 3d Transition Metal Atoms. <i>Molecules</i> , 2018, 23, 964.	3.8	9
38	Amplification of the short-wavelength oscillations in exchange coupled Co-films by low-temperature deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 1279-1280.	2.3	6
39	Shifted magnetization curves in ultrathin Co films on stepped Cu(100). <i>IEEE Transactions on Magnetics</i> , 1998, 34, 1195-1197.	2.1	6
40	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
41	X-ray detection of ultrashort spin current pulses in synthetic antiferromagnets. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	6
42	Soft X-Ray Beamline for fs Pulses from the BESSY fs-Slicing Source. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	3
43	Ultrafast magnetism as seen by x-rays. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
44	Domain configuration in perpendicularly magnetized atomically thin iron particles. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1137-1139.	2.3	2
45	Engineering Ultrafast Magnetism. <i>Springer Proceedings in Physics</i> , 2015, , 297-299.	0.2	1
46	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
47	Ultra-Thin Magnetic Films with Finite Lateral Size. , 2001, , 335-349.		0
48	Influence of the Magnetization Compensation Point on the All-Optical Magnetization Switching. <i>Springer Proceedings in Physics</i> , 2015, , 30-31.	0.2	0
49	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
50	Element- and time-resolved dynamics in rare-earth/transition metals alloys. <i>Springer Proceedings in Physics</i> , 2015, , 310-312.	0.2	0