

Hermann A DÃ¼rr

List of Publications by Year in descending order

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53
papers

5,239
citations

186265

28
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206112

48
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54
docs citations

54
times ranked

6232
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	Interface-induced phenomena in magnetism. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	672
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	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , 2013, 9, 661-666.	16.7	448
5	Distinguishing the ultrafast dynamics of spin and orbital moments in solids. <i>Nature</i> , 2010, 465, 458-461.	27.8	362
6	Mega-electron-volt ultrafast electron diffraction at SLAC National Accelerator Laboratory. <i>Review of Scientific Instruments</i> , 2015, 86, 073702.	1.3	322
7	Nanoscale spin reversal by non-local angular momentum transfer following ultrafast laser excitation in ferrimagnetic GdFeCo. <i>Nature Materials</i> , 2013, 12, 293-298.	27.5	267
8	Femtosecond Electron and Spin Dynamics in Ni/W(110) Films. <i>Physical Review Letters</i> , 2003, 90, 247201.	7.8	202
9	Femtosecond Single-Shot Imaging of Nanoscale Ferromagnetic Order in Co/Pd Multilayers Using Resonant X-Ray Holography. <i>Physical Review Letters</i> , 2012, 108, 267403.	7.8	153
10	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. <i>Nano Letters</i> , 2015, 15, 6862-6868.	9.1	126
11	Polarization control in an X-ray free-electron laser. <i>Nature Photonics</i> , 2016, 10, 468-472.	31.4	116
12	X-ray pulse preserving single-shot optical cross-correlation method for improved experimental temporal resolution. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	111
13	Dynamic Structural Response and Deformations of Monolayer MoS_2 Visualized by Femtosecond Electron Diffraction. <i>Nano Letters</i> , 2015, 15, 6889-6895.	9.1	93
14	THz-Driven Ultrafast Spin-Lattice Scattering in Amorphous Metallic Ferromagnets. <i>Physical Review Letters</i> , 2016, 117, 087205.	7.8	83
15	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. <i>Physical Review Letters</i> , 2016, 116, 116403.	7.8	72
16	Ultrafast electron diffraction from non-equilibrium phonons in femtosecond laser heated Au films. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	62
17	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
18	Nonequilibrium electron and lattice dynamics of strongly correlated $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystals. <i>Science Advances</i> , 2018, 4, eaap7427.	10.3	58

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19	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	12.8	54
20	Direct observation and imaging of a spin-wave soliton with p-like symmetry. Nature Communications, 2015, 6, 8889.	12.8	52
21	Femtosecond X-ray magnetic circular dichroism absorption spectroscopy at an X-ray free electron laser. Review of Scientific Instruments, 2016, 87, 033110.	1.3	50
22	Generation mechanism of terahertz coherent acoustic phonons in Fe. Physical Review B, 2016, 93, .	3.2	48
23	Beyond a phenomenological description of magnetostriction. Nature Communications, 2018, 9, 388.	12.8	48
24	Tracking the ultrafast nonequilibrium energy flow between electronic and lattice degrees of freedom in crystalline nickel. Physical Review B, 2020, 101, .	3.2	41
25	Microwave soft x-ray microscopy for nanoscale magnetization dynamics in the 5â€“10 GHz frequency range. Review of Scientific Instruments, 2015, 86, 093703.	1.3	38
26	X-ray Detection of Transient Magnetic Moments Induced by a Spin Current in Cu. Physical Review Letters, 2015, 115, 096601.	7.8	38
27	The future of electron microscopy. Physics Today, 2015, 68, 32-38.	0.3	37
28	Elimination of X-Ray Diffraction through Stimulated X-Ray Transmission. Physical Review Letters, 2016, 117, 027401.	7.8	34
29	Electron-lattice energy relaxation in laser-excited thin-film Au-insulator heterostructures studied by ultrafast MeV electron diffraction. Structural Dynamics, 2017, 4, 054501.	2.3	29
30	Thickness-dependent electronâ€“lattice equilibration in laser-excited thin bismuth films. New Journal of Physics, 2015, 17, 113047.	2.9	28
31	Stacking order dynamics in the quasi-two-dimensional dichalcogenide 1<i>T</i>-TaS2 probed with MeV ultrafast electron diffraction. Structural Dynamics, 2017, 4, 044020.	2.3	28
32	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. Physical Review Letters, 2019, 123, 197204.	7.8	26
33	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22
34	Femtosecond X-ray induced changes of the electronic and magnetic response of solids from electron redistribution. Nature Communications, 2019, 10, 5289.	12.8	22
35	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	7.8	20
36	Phase separation in the nonequilibrium Verwey transition in magnetite. Physical Review B, 2016, 93, .	3.2	16

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37	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
38	Interface Fe magnetic moment enhancement in MgO/Fe/MgO trilayers. <i>Applied Physics Letters</i> , 2015, 107, 092404.	3.3	14
39	Measurement of collective excitations in VO_2 by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2016, 94, .		
40	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. <i>Science Advances</i> , 2022, 8, eabn0523.	10.3	10
41	Ultrafast imprinting of topologically protected magnetic textures via pulsed electrons. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
42	Stimulated resonant inelastic X-ray scattering in a solid. <i>Communications Physics</i> , 2022, 5, .	5.3	9
43	State-resolved ultrafast charge and spin dynamics in [Co/Pd] multilayers. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	8
44	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6947.	2.5	7
45	Element-Specific Magnetization Dynamics in CoPt Alloys Induced by Strong Optical Excitation. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11714-11721.	3.1	7
46	Revealing momentum-dependent electron-phonon and phonon-phonon coupling in complex materials with ultrafast electron diffuse scattering. <i>MRS Bulletin</i> , 2021, 46, 731-737.	3.5	7
47	Ultrafast manipulation of the NiO antiferromagnetic order via sub-gap optical excitation. <i>Faraday Discussions</i> , 0, 237, 300-316.	3.2	4
48	Interplay between intrinsic and stacking-fault magnetic domains in bi-layered manganites. <i>Applied Physics Letters</i> , 2012, 101, 132402.	3.3	3
49	Magnetization Dynamics. , 2021, , 1333-1365.		1
50	Magnetization Dynamics. , 2021, , 1-33.		0
51	Thickness dependent electron-lattice equilibration in thin Bi films studied by time-resolved MeV electron diffraction. , 2016, , .		0
52	10.1063/1.4991521.1., 2017, , .		0
53	Ultrafast nanoscale magnetic switching via intense picosecond electron bunches. , 2017, , .		0