

# Hermann A DÃ¼rr

## List of Publications by Year in descending order

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53  
papers

5,239  
citations

186265

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h-index

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54  
all docs

54  
docs citations

54  
times ranked

6232  
citing authors

#	ARTICLE	IF	CITATIONS
1	State-resolved ultrafast charge and spin dynamics in [Co/Pd] multilayers. Applied Physics Letters, 2022, 120, .	3.3	8
2	Nonequilibrium sub-10 nm spin-wave soliton formation in FePt nanoparticles. Science Advances, 2022, 8, eabn0523.	10.3	10
3	Stimulated resonant inelastic X-ray scattering in a solid. Communications Physics, 2022, 5, .	5.3	9
4	Magnetization Dynamics. , 2021, , 1-33.		0
5	Element-Specific Magnetization Dynamics in Co-Pt Alloys Induced by Strong Optical Excitation. Journal of Physical Chemistry C, 2021, 125, 11714-11721.	3.1	7
6	Revealing momentum-dependent electron-phonon and phonon-phonon coupling in complex materials with ultrafast electron diffuse scattering. MRS Bulletin, 2021, 46, 731-737.	3.5	7
7	Magnetization Dynamics. , 2021, , 1333-1365.		1
8	Tailoring Vanadium Dioxide Film Orientation Using Nanosheets: a Combined Microscopy, Diffraction, Transport, and Soft X-Ray in Transmission Study. Advanced Functional Materials, 2020, 30, 1900028.	14.9	16
9	Parallel Broadband Femtosecond Reflection Spectroscopy at a Soft X-Ray Free-Electron Laser. Applied Sciences (Switzerland), 2020, 10, 6947.	2.5	7
10	Tracking the ultrafast nonequilibrium energy flow between electronic and lattice degrees of freedom in crystalline nickel. Physical Review B, 2020, 101, .	3.2	41
11	Nonlinear Magnetization Dynamics Driven by Strong Terahertz Fields. Physical Review Letters, 2019, 123, 197204.	7.8	26
12	Spin-current-mediated rapid magnon localisation and coalescence after ultrafast optical pumping of ferrimagnetic alloys. Nature Communications, 2019, 10, 1756.	12.8	54
13	Femtosecond X-ray induced changes of the electronic and magnetic response of solids from electron redistribution. Nature Communications, 2019, 10, 5289.	12.8	22
14	Beyond a phenomenological description of magnetostriction. Nature Communications, 2018, 9, 388.	12.8	48
15	Nonequilibrium electron and lattice dynamics of strongly correlated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. Science Advances, 2018, 4, eaap7427.	10.3	58
16	Ultrafast Self-Induced X-Ray Transparency and Loss of Magnetic Diffraction. Physical Review Letters, 2018, 121, 137403.	7.8	20
17	Stacking order dynamics in the quasi-two-dimensional dichalcogenide 1T-TaS <sub>2</sub> probed with MeV ultrafast electron diffraction. Structural Dynamics, 2017, 4, 044020.	2.3	28
18	Magnetic Switching in Granular FePt Layers Promoted by Near-Field Laser Enhancement. Nano Letters, 2017, 17, 2426-2432.	9.1	22

#	ARTICLE	IF	CITATIONS
19	Ultrafast imprinting of topologically protected magnetic textures via pulsed electrons. Applied Physics Letters, 2017, 111, .	3.3	9
20	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	45.6	672
21	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
22	10.1063/1.4991521.1. , 2017, , .		0
23	Ultrafast nanoscale magnetic switching via intense picosecond electron bunches. , 2017, , .		0
24	Ultrafast electron diffraction from non-equilibrium phonons in femtosecond laser heated Au films. Applied Physics Letters, 2016, 108, .	3.3	62
25	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
26	Polarization control in an X-ray free-electron laser. Nature Photonics, 2016, 10, 468-472.	31.4	116
27	THz-Driven Ultrafast Spin-Lattice Scattering in Amorphous Metallic Ferromagnets. Physical Review Letters, 2016, 117, 087205.	7.8	83
28	Elimination of X-Ray Diffraction through Stimulated X-Ray Transmission. Physical Review Letters, 2016, 117, 027401.	7.8	34
29	Phase separation in the nonequilibrium Verwey transition in magnetite. Physical Review B, 2016, 93, .	3.2	16
30	Generation mechanism of terahertz coherent acoustic phonons in Fe. Physical Review B, 2016, 93, .	3.2	48
31	Correlation-Driven Insulator-Metal Transition in Near-Ideal Vanadium Dioxide Films. Physical Review Letters, 2016, 116, 116403.	7.8	72
32	Measurement of collective excitations in $\text{VO}_2$ by resonant inelastic x-ray scattering. Physical Review B, 2016, 94, .		
33	Thickness dependent electron-lattice equilibration in thin Bi films studied by time-resolved MeV electron diffraction. , 2016, , .		0
34	Interface Fe magnetic moment enhancement in MgO/Fe/MgO trilayers. Applied Physics Letters, 2015, 107, 092404.	3.3	14
35	The future of electron microscopy. Physics Today, 2015, 68, 32-38.	0.3	37
36	Microwave soft x-ray microscopy for nanoscale magnetization dynamics in the 5–10 GHz frequency range. Review of Scientific Instruments, 2015, 86, 093703.	1.3	38

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37	Thickness-dependent electron lattice equilibration in laser-excited thin bismuth films. <i>New Journal of Physics</i> , 2015, 17, 113047.	2.9	28
38	X-ray Detection of Transient Magnetic Moments Induced by a Spin Current in Cu. <i>Physical Review Letters</i> , 2015, 115, 096601.	7.8	38
39	Direct observation and imaging of a spin-wave soliton with p-like symmetry. <i>Nature Communications</i> , 2015, 6, 8889.	12.8	52
40	Mega-electron-volt ultrafast electron diffraction at SLAC National Accelerator Laboratory. <i>Review of Scientific Instruments</i> , 2015, 86, 073702.	1.3	322
41	Nanoscale Confinement of All-Optical Magnetic Switching in TbFeCo - Competition with Nanoscale Heterogeneity. <i>Nano Letters</i> , 2015, 15, 6862-6868.	9.1	126
42	Dynamic Structural Response and Deformations of Monolayer MoS <sub>2</sub> Visualized by Femtosecond Electron Diffraction. <i>Nano Letters</i> , 2015, 15, 6889-6895.	9.1	93
43	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
44	Control of the metal-insulator transition in vanadium dioxide by modifying orbital occupancy. <i>Nature Physics</i> , 2013, 9, 661-666.	16.7	448
45	Interplay between intrinsic and stacking-fault magnetic domains in bi-layered manganites. <i>Applied Physics Letters</i> , 2012, 101, 132402.	3.3	3
46	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
47	Femtosecond Single-Shot Imaging of Nanoscale Ferromagnetic Order in $\text{Co/Pd}$ Multilayers Using Resonant X-Ray Holography. <i>Physical Review Letters</i> . 2012, 108, 267403.	7.8	153
48	Transient ferromagnetic-like state mediating ultrafast reversal of antiferromagnetically coupled spins. <i>Nature</i> , 2011, 472, 205-208.	27.8	828
49	Distinguishing the ultrafast dynamics of spin and orbital moments in solids. <i>Nature</i> , 2010, 465, 458-461.	27.8	362
50	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
51	Femtosecond modification of electron localization and transfer of angular momentum in nickel. <i>Nature Materials</i> , 2007, 6, 740-743.	27.5	464
52	Femtosecond Electron and Spin Dynamics in Ni/W(110) Films. <i>Physical Review Letters</i> , 2003, 90, 247201.	7.8	202
53	Ultrafast manipulation of the NiO antiferromagnetic order via sub-gap optical excitation. <i>Faraday Discussions</i> , 0, 237, 300-316.	3.2	4