Florian Kronast

List of Publications by Year in descending order

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82 papers

2,633 citations

218677
26
h-index

49 g-index

84 all docs 84 docs citations

84 times ranked 3572 citing authors

#	Article	IF	Citations
1	Magnetoelastic resonance as a probe for exchange springs at antiferromagnet-ferromagnet interfaces. Physical Review B, 2022, 105, .	3.2	3
2	Layer-Dependent Magnetic Domains in Atomically Thin Fe ₅ GeTe ₂ . ACS Nano, 2022, 16, 10545-10553.	14.6	17
3	Driving magnetic domains at the nanoscale by interfacial strain-induced proximity. Nanoscale, 2021, 13, 4985-4994.	5 . 6	5
4	Domain-Wall Damping in Ultrathin Nanostripes with Dzyaloshinskii-Moriya Interaction. Physical Review Applied, 2021, 15, .	3.8	5
5	A Timeâ€Resolved Paleomagnetic Record of Main Group Pallasites: Evidence for a Largeâ€Cored, Thinâ€Mantled Parent Body. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006900.	3.6	10
6	Superconducting imprint of magnetic textures in ferromagnets with perpendicular magnetic anisotropy. Scientific Reports, 2021, 11, 20788.	3.3	5
7	From stripes to bubbles: Deterministic transformation of magnetic domain patterns in Co/Pt multilayers induced by laser helicity. Physical Review B, 2020, 102, .	3.2	6
8	Spatially resolved X-ray absorption spectroscopy investigation of individual cation-intercalated multi-layered Ti3C2Tx MXene particles. Applied Surface Science, 2020, 530, 147157.	6.1	10
9	Temperature dependence of the Dzyaloshinskii-Moriya interaction in ultrathin films. Physical Review B, 2020, 101, .	3.2	29
10	Enhancement of Ti ₃ C ₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 5079-5086.	3.1	46
11	Tunable Magnetic Vortex Dynamics in Ion-Implanted Permalloy Disks. ACS Applied Materials & Di	8.0	8
12	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. Physical Review Materials, 2020, 4, .	2.4	19
13	A local view of the laser induced magnetic domain dynamics in CoPd stripe domains at the picosecond time scale. Journal of Physics Condensed Matter, 2020, 32, 465801.	1.8	1
14	Magnetic and electrical transport signatures of uncompensated moments in epitaxial thin films of the noncollinear antiferromagnet Mn3Ir. Applied Physics Letters, 2019, 115, 062403.	3. 3	12
15	Experimental Observation of Exchange-Driven Chiral Effects in Curvilinear Magnetism. Physical Review Letters, 2019, 123, 077201.	7.8	57
16	Mechanism of Néel Order Switching in Antiferromagnetic Thin Films Revealed by Magnetotransport and Direct Imaging. Physical Review Letters, 2019, 123, 177201.	7.8	119
17	Steering of magnetic domain walls by single ultrashort laser pulses. Physical Review B, 2019, 99, .	3.2	15
18	Sample cartridge with built-in miniature molecule evaporator for in-situ measurement with a photoemission electron microscope. Ultramicroscopy, 2019, 200, 1-5.	1.9	1

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19	Laser-Rewriteable Ferromagnetism at Thin-Film Surfaces. ACS Applied Materials & Samp; Interfaces, 2018, 10, 15232-15239.	8.0	32
20	Microstructural and paleomagnetic insight into the cooling history of the IAB parent body. Geochimica Et Cosmochimica Acta, 2018, 229, 1-19.	3.9	17
21	Real-Space Observation of Skyrmionium in a Ferromagnet-Magnetic Topological Insulator Heterostructure. Nano Letters, 2018, 18, 1057-1063.	9.1	109
22	2D magnetic domain wall ratchet: The limit of submicrometric holes. Materials and Design, 2018, 138, 111-118.	7.0	9
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>360</mml:mn><mml:mo>â^^domain walls in magnetic thin films with uniaxial and random anisotropy. Physical Review B, 2018, 98, .</mml:mo></mml:msup></mml:math 	nml:30,20 > <td>mm8:msup><</td>	mm 8: msup><
24	Laser-driven formation of transient local ferromagnetism in FeRh thin films. Ultramicroscopy, 2017, 183, 104-108.	1.9	9
25	Spatially resolved investigation of all optical magnetization switching in TbFe alloys. Scientific Reports, 2017, 7, 9456.	3.3	11
26	Competition between Superconductor – Ferromagnetic stray magnetic fields in YBa2Cu3O7â^'x films pierced with Co nano-rods. Scientific Reports, 2017, 7, 5663.	3.3	21
27	Strain-gradient-induced magnetic anisotropy in straight-stripe mixed-phase bismuth ferrites: Insight into flexomagnetism. Physical Review B, 2017, 96, .	3.2	14
28	Magnetization reversal of the domain structure in the anti-perovskite nitride Co3FeN investigated by high-resolution X-ray microscopy. Journal of Applied Physics, 2016, 119, .	2.5	6
29	Vortex circulation and polarity patterns in closely packed cap arrays. Applied Physics Letters, 2016, 108,	3.3	23
30	Magnetism in curved geometries. Journal Physics D: Applied Physics, 2016, 49, 363001.	2.8	263
31	Pallasite paleomagnetism: Quiescence of a core dynamo. Earth and Planetary Science Letters, 2016, 441, 103-112.	4.4	26
32	Reconfigurable large-area magnetic vortex circulation patterns. Physical Review B, 2015, 92, .	3.2	19
33	Manipulating Topological States by Imprinting Non-Collinear Spin Textures. Scientific Reports, 2015, 5, 8787.	3.3	38
34	Local electrical control of magnetic order and orientation by ferroelastic domain arrangements just above room temperature. Scientific Reports, 2015, 5, 10026.	3.3	44
35	Retrieving spin textures on curved magnetic thin films with full-field soft X-ray microscopies. Nature Communications, 2015, 6, 7612.	12.8	108
36	A sample holder with integrated laser optics for an ELMITEC photoemission electron microscope. Review of Scientific Instruments, 2015, 86, 023702.	1.3	13

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37	ATTENUATION OF SURFACE ACOUSTIC WAVES BY SPIN–WAVE EXCITATIONS IN Co ₆₀ Fe ₂₀ B ₂₀ <2014, 04, 1440005.	1.3	0
38	Direct observation of temperature dependent magnetic domain structure of the multiferroic La0.66Sr0.34MnO3/BiFeO3 bilayer system by x-ray linear dichroism- and x-ray magnetic circular dichroism-photoemission electron microscopy. Journal of Applied Physics, 2014, 115, .	2.5	7
39	Phase separation and electrical switching between two isosymmetric multiferroic phases in tensile strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>BiFeO</mml:mtext><mml:mn> films. Physical Review B. 2014. 89</mml:mn></mml:msub></mml:math>	3 <i>3</i> /mml:m	ın ²⁶ /mml:ms
40	Electric-field control of magnetic order above room temperature. Nature Materials, 2014, 13, 345-351.	27.5	451
41	Domain wall transformations and hopping in La0.7Sr0.3MnO3nanostructures imaged with high resolution x-ray magnetic microscopy. Journal of Physics Condensed Matter, 2014, 26, 456003.	1.8	5
42	Imaging of Buried 3D Magnetic Rolled-up Nanomembranes. Nano Letters, 2014, 14, 3981-3986.	9.1	34
43	The complex interface chemistry of thin-film silicon/zinc oxide solar cell structures. Physical Chemistry Chemical Physics, 2014, 16, 26266-26272.	2.8	9
44	Magnetic Anisotropy Engineering in Thin Film Ni Nanostructures by Magnetoelastic Coupling. Physical Review Applied, 2014, 1 , .	3.8	85
45	Magnetic antidot to dot crossover in Co and Py nanopatterned thin films. Physical Review B, 2014, 89, .	3.2	35
46	Hysteresis-free switching between vortex and collinear magnetic states. New Journal of Physics, 2014, 16, 053002.	2.9	16
47	Photoemission electron microscopy study of sub-200 nm self-assembled La0.7Sr0.3MnO3 epitaxial islands. Nanoscale, 2013, 5, 2990.	5.6	9
48	Magnetic Dipole and Higher Pole Interaction on a Square Lattice. Physical Review Letters, 2013, 110, 177209.	7.8	41
49	Lateral inhomogeneity of the Mg/(Zn+Mg) composition at the (Zn,Mg)O/Culn(S,Se)2 thin-film solar cell interface revealed by photoemission electron microscopy. Journal of Applied Physics, 2013, 113, 193709.	2.5	2
50	ELECTRICAL-FIELD CONTROL OF MAGNETISM MEDIATED BY STRAIN IN Ni NANOSTRUCTURES FABRICATED ON PRE-POLED PMN–PT (011). Spin, 2013, 03, 1340008.	1.3	2
51	Fabrication and Magnetic Characterization of Cobalt Antidot Arrays: Effect of the Surrounding Continuous Film. Journal of Nanoscience and Nanotechnology, 2012, 12, 7437-7441.	0.9	4
52	Disentangling the Physical Contributions to the Electrical Resistance in Magnetic Domain Walls: A Multiscale Study. Physical Review Letters, 2012, 108, 077201.	7.8	15
53	Magnetically Capped Rolled-up Nanomembranes. Nano Letters, 2012, 12, 3961-3966.	9.1	50
54	Control of the magnetization in pre-patterned half-metallic La0.7Sr0.3MnO3 nanostructures. Journal of Applied Physics, 2012, 112, 103921.	2.5	7

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55	Imaging magnetic responses of nanomagnets by XPEEM. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 365-370.	1.7	16
56	Intergrain variations of the chemical and electronic surface structure of polycrystalline Cu(In,Ga)Se2 thin-film solar cell absorbers. Applied Physics Letters, 2012, 101, .	3.3	3
57	X-ray photoemission electron microscopy studies of local magnetization in Py antidot array thin films. Physical Review B, 2012, 85, .	3.2	26
58	Equilibrium magnetic states in individual hemispherical permalloy caps. Applied Physics Letters, 2012, 101, .	3.3	72
59	Microstructure of vanadium-based contacts on n-type GaN. Journal Physics D: Applied Physics, 2012, 45, 105401.	2.8	5
60	Magnetic vortices on closely packed spherically curved surfaces. Physical Review B, 2012, 85, .	3.2	52
61	Temperature-driven nucleation of ferromagnetic domains in FeRh thin films. Applied Physics Letters, 2012, 100, .	3.3	79
62	Element-Specific Magnetic Hysteresis of Individual 18 nm Fe Nanocubes. Nano Letters, 2011, 11, 1710-1715.	9.1	64
63	Domain wall resistance in epitaxial Fe wires. Journal of Magnetism and Magnetic Materials, 2011, 323, 1027-1030.	2.3	4
64	Magnetostatic coupling of $90\hat{A}^\circ$ domain walls in Fe ₁₉ Ni ₈₁ /Cu/Co trilayers. New Journal of Physics, 2011, 13, 033015.	2.9	7
65	Fabrication of layered nanostructures by successive electron beam induced deposition with two precursors: protective capping of metallic iron structures. Nanotechnology, 2011, 22, 475304.	2.6	8
66	Photoemission electron microscopy of three-dimensional magnetization configurations in core-shell nanostructures. Physical Review B, 2011, 84, .	3.2	52
67	Laterally confined metal-to-insulator and quasi-two-dimensional–to–two-dimensional transition by focused Rb intercalation of1T-TaS2. Physical Review B, 2011, 84, .	3.2	6
68	Surface modification of polycrystalline Cu(ln, Ga)Se < inf>2 < /inf> thin-film solar cell absorber surfaces for PEEM measurements. , 2011, , .		0
69	Spinâ€resolved photoemission microscopy and magnetic imaging in applied magnetic fields. Surface and Interface Analysis, 2010, 42, 1532-1536.	1.8	63
70	Direct Determination of Large Spin-Torque Nonadiabaticity in Vortex Core Dynamics. Physical Review Letters, 2010, 105, 187203.	7.8	58
71	Spatially resolved measurements of the ferromagnetic phase transition by ac-susceptibility investigations with x-ray photoelectron emission microscope. Applied Physics Letters, 2010, 96, .	3.3	3
72	Standing-wave excited soft x-ray photoemission microscopy: Application to Co microdot magnetic arrays. Applied Physics Letters, 2010, 97, .	3.3	24

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73	Current-induced vortex dynamics and pinning potentials probed by homodyne detection. Physical Review B, 2010, 82, .	3.2	42
74	Temperature dependence of magnetic coupling in ultrathin <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mtext>NiO</mml:mtext><mml:mo>/</mml:mo><mml:msub><mml:mrow>< Physical Review B, 2009, 80, .</mml:mrow></mml:msub></mml:mrow></mml:math>	mml:mtex	t>Fe
75	Time-resolved magnetization dynamics of cross-tie domain walls in permalloy microstructures. Journal of Physics Condensed Matter, 2009, 21, 496001.	1.8	8
76	Femtosecond spin dynamics of ferromagnetic thin films and nanodots probed by spin polarized photoemission electron microscopy. Journal Physics D: Applied Physics, 2008, 41, 164002.	2.8	9
77	Depth-resolved soft x-ray photoelectron emission microscopy in nanostructures via standing-wave excited photoemission. Applied Physics Letters, 2008, 93, .	3.3	24
78	A new sample holder for laser-excited pump-probe magnetic measurements on a Focus photoelectron emission microscope. Review of Scientific Instruments, 2008, 79, 033702.	1.3	4
79	A spatially resolved investigation of the local, micro-magnetic domain structure of single and polycrystalline Co2FeSi. Journal Physics D: Applied Physics, 2007, 40, 1570-1575.	2.8	18
80	Mn3delectronic configurations in (Ga1 \hat{a} 2xMnx)Asferromagnetic semiconductors and their influence on magnetic ordering. Physical Review B, 2006, 74, .	3.2	11
81	Spin-Polarized Photoelectron Emission Microscopy of Magnetic Nanostructures. , 2001, , 557-564.		9
82	SPEEM: The photoemission microscope at the dedicated microfocus PGM beamline UE49-PGMa at BESSY II. Journal of Large-scale Research Facilities JLSRF, 0, 2, A90.	0.0	22