

Florian Kronast

List of Publications by Year in descending order

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82
papers

2,633
citations

218677

26
h-index

197818

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. <i>Physical Review B</i> , 2022, 105, .	3.2	3
2	Layer-Dependent Magnetic Domains in Atomically Thin Fe ₅ GeTe ₂ . <i>ACS Nano</i> , 2022, 16, 10545-10553.	14.6	17
3	Driving magnetic domains at the nanoscale by interfacial strain-induced proximity. <i>Nanoscale</i> , 2021, 13, 4985-4994.	5.6	5
4	Domain-Wall Damping in Ultrathin Nanostripes with Dzyaloshinskii-Moriya Interaction. <i>Physical Review Applied</i> , 2021, 15, .	3.8	5
5	A Time-Resolved Paleomagnetic Record of Main Group Pallasites: Evidence for a Large-Cored, Thin-Mantled Parent Body. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006900.	3.6	10
6	Superconducting imprint of magnetic textures in ferromagnets with perpendicular magnetic anisotropy. <i>Scientific Reports</i> , 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. <i>Physical Review B</i> , 2020, 102, .	3.2	6
8	Spatially resolved X-ray absorption spectroscopy investigation of individual cation-intercalated multi-layered Ti ₃ C ₂ MXene particles. <i>Applied Surface Science</i> , 2020, 530, 147157.	6.1	10
9	Temperature dependence of the Dzyaloshinskii-Moriya interaction in ultrathin films. <i>Physical Review B</i> , 2020, 101, .	3.2	29
10	Enhancement of Ti ₃ C ₂ MXene Pseudocapacitance after Urea Intercalation Studied by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5079-5086.	3.1	46
11	Tunable Magnetic Vortex Dynamics in Ion-Implanted Permalloy Disks. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27812-27818.	8.0	8
12	Thermal nucleation and high-resolution imaging of submicrometer magnetic bubbles in thin thulium iron garnet films with perpendicular anisotropy. <i>Physical Review Materials</i> , 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. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 465801.	1.8	1
14	Magnetic and electrical transport signatures of uncompensated moments in epitaxial thin films of the noncollinear antiferromagnet Mn ₃ Ir. <i>Applied Physics Letters</i> , 2019, 115, 062403.	3.3	12
15	Experimental Observation of Exchange-Driven Chiral Effects in Curvilinear Magnetism. <i>Physical Review Letters</i> , 2019, 123, 077201.	7.8	57
16	Mechanism of Néel Order Switching in Antiferromagnetic Thin Films Revealed by Magnetotransport and Direct Imaging. <i>Physical Review Letters</i> , 2019, 123, 177201.	7.8	119
17	Steering of magnetic domain walls by single ultrashort laser pulses. <i>Physical Review B</i> , 2019, 99, .	3.2	15
18	Sample cartridge with built-in miniature molecule evaporator for in-situ measurement with a photoemission electron microscope. <i>Ultramicroscopy</i> , 2019, 200, 1-5.	1.9	1

#	ARTICLE	IF	CITATIONS
37	ATTENUATION OF SURFACE ACOUSTIC WAVES BY SPIN-WAVE EXCITATIONS IN $\text{Co}_{60}\text{Fe}_{20}\text{B}_{20}$. Spin, 2014, 04, 1440005.	1.3	0
38	Direct observation of temperature dependent magnetic domain structure of the multiferroic $\text{La}_{0.66}\text{Sr}_{0.34}\text{MnO}_3/\text{BiFeO}_3$ 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 BiFeO_3 films. Physical Review B, 2014, 89, .	3.2	26
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 $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanostructures 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 $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ 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/CuIn(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 $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ 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)Se ₂ 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° 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 of 1T-TaS ₂ . Physical Review B, 2011, 84, .	3.2	6
68	Surface modification of polycrystalline Cu(In, Ga)Se ₂ thin-film solar cell absorber surfaces for PEEM measurements. , 2011, , .		0
69	Spin-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 NiO/Fe . Physical Review B, 2009, 80, .	3.2	7
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 Co_2FeSi . Journal Physics D: Applied Physics, 2007, 40, 1570-1575.	2.8	18
80	Mn^{3d} electronic configurations in $(\text{Ga}_{1-x}\text{Mn}_x)\text{As}$ ferromagnetic 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