

# Mathias KlÄœui

## List of Publications by Year in descending order

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367  
papers

18,449  
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15880

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123  
g-index

377  
all docs

377  
docs citations

377  
times ranked

12875  
citing authors



#	ARTICLE	IF	CITATIONS
19	Magnetic Imaging and Microscopy. , 2021, , 1-52.		1
20	Commensurability between Element Symmetry and the Number of Skyrmions Governing Skyrmion Diffusion in Confined Geometries. Advanced Functional Materials, 2021, 31, 2010739.	7.8	26
21	Imaging Topological Spin Structures Using Light-Polarization and Magnetic Microscopy. Physical Review Applied, 2021, 15, .	1.5	18
22	Identification of Néel Vector Orientation in Antiferromagnetic Domains Switched by Currents in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Pt} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Thin Films. Physical Review Applied, 2021, 15, .	1.5	16
23	Effective strain manipulation of the antiferromagnetic state of polycrystalline NiO. Applied Physics Letters, 2021, 118, .	1.5	6
24	Anisotropic Skyrmion Diffusion Controlled by Magnetic-Field-Induced Symmetry Breaking. Physical Review Applied, 2021, 15, .	1.5	20
25	Revealing the importance of interfaces for pure spin current transport. Physical Review Research, 2021, 3, .	1.3	4
26	Room-Temperature Antiferromagnetic Resonance and Inverse Spin-Hall Voltage in Canted Antiferromagnets. Physical Review Letters, 2021, 126, 187201.	2.9	39
27	Direct Imaging of Chiral Domain Walls and Néel-Type Skyrmionium in Ferrimagnetic Alloys. Advanced Functional Materials, 2021, 31, 2102307.	7.8	16
28	Precise electrical detection of the field and current-induced switching mode of a magnetic nanodisk in a non-local spin valve. Journal Physics D: Applied Physics, 2021, 54, 345004.	1.3	0
29	Exceptional sign changes of the nonlocal spin Seebeck effect in antiferromagnetic hematite. Physical Review B, 2021, 103, .	1.1	14
30	Heisenberg Exchange and Dzyaloshinskii-Moriya Interaction in Ultrathin Pt(W)/CoFeB Single and Multilayers. IEEE Transactions on Magnetics, 2021, 57, 1-7.	1.2	9
31	Optical Readout of the Néel Vector in the Metallic Antiferromagnet Mn <sub>2</sub> Au. Physical Review Applied, 2021, 16, .	1.5	13
32	Magnetic Coupling in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Y} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 12 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Gd} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Physical Review Applied, 2021, 16, .		
33	Modulating the polarization of broadband terahertz pulses from a spintronic emitter at rates up to 10 kHz. Optica, 2021, 8, 1013.	4.8	33
34	Impact of nitrogen doping on the band structure and the charge carrier scattering in monolayer graphene. Physical Review Materials, 2021, 5, .	0.9	3
35	Orbitronics: Orbital currents in solids. Europhysics Letters, 2021, 135, 37001.	0.7	77
36	Imprinting the complex dielectric permittivity of liquids into the spintronic terahertz emission. Applied Physics Letters, 2021, 119, .	1.5	8



#	ARTICLE	IF	CITATIONS
55	Efficient Spin Torques in Antiferromagnetic $\text{CoO}/\text{Pt}$ Quantified by Comparing Field- and Current-Induced Switching. <i>Physical Review Letters</i> , 2020, 125, 077201.	2.9	40
56	Harnessing Orbital-to-Spin Conversion of Interfacial Orbital Currents for Efficient Spin-Orbit Torques. <i>Physical Review Letters</i> , 2020, 125, 177201.	2.9	92
57	Skyrmion Lattice Phases in Thin Film Multilayer. <i>Advanced Functional Materials</i> , 2020, 30, 2004037.	7.8	30
58	Concurrent magneto-optical imaging and magneto-transport readout of electrical switching of insulating antiferromagnetic thin films. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	26
59	Structural sensitivity of the spin Hall magnetoresistance in antiferromagnetic thin films. <i>Physical Review B</i> , 2020, 102, .	1.1	19
60	Magnetic State Control via Field-Angle-Selective Switching in Asymmetric Rings. <i>Physical Review Applied</i> , 2020, 14, .	1.5	2
61	Identifying the origin of the nonmonotonic thickness dependence of spin-orbit torque and interfacial Dzyaloshinskii-Moriya interaction in a ferrimagnetic insulator heterostructure. <i>Physical Review B</i> , 2020, 102, .	1.1	19
62	Theory of domain-wall magnetoresistance in metallic antiferromagnets. <i>Physical Review B</i> , 2020, 102, .	1.1	1
63	Faster chiral versus collinear magnetic order recovery after optical excitation revealed by femtosecond XUV scattering. <i>Nature Communications</i> , 2020, 11, 6304.	5.8	19
64	Long-distance spin-transport across the Morin phase transition up to room temperature in ultra-low damping single crystals of the antiferromagnet $\text{Ir}_2\text{Fe}_2\text{O}_3$ . <i>Nature Communications</i> , 2020, 11, 6332.	5.8	65
65	Magnetic Direct-Write Skyrmion Nanolithography. <i>ACS Nano</i> , 2020, 14, 14960-14970.	7.3	17
66	Freezing and melting skyrmions in 2D. <i>Nature Nanotechnology</i> , 2020, 15, 726-727.	15.6	5
67	The challenge in realizing an exchange coupled $\text{BiFeO}_3$ -double perovskite bilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 506, 166766.	1.0	1
68	Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. <i>Nano Letters</i> , 2020, 20, 2993-3002.	4.5	52
69	Current induced chiral domain wall motion in $\text{CuIr}/\text{CoFeB}/\text{MgO}$ thin films with strong higher order spin-orbit torques. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	5
70	Determination of fine magnetic structure of magnetic multilayer with quasi antiferromagnetic layer by using polarized neutron reflectivity analysis. <i>AIP Advances</i> , 2020, 10, .	0.6	6
71	Impact of Annealing Temperature on Tunneling Magnetoresistance Multilayer Stacks. <i>IEEE Magnetics Letters</i> , 2020, 11, 1-5.	0.6	9
72	High quality epitaxial $\text{Mn}_2\text{Au}$ (001) thin films grown by molecular beam epitaxy. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	11

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73	Magnetoresistance Effects in the Metallic Antiferromagnet $Mn_2Au$ . Physical Review Applied, 2020, 14, .	1.5	25
74	Giant spin Seebeck effect through an interface organic semiconductor. Materials Horizons, 2020, 7, 1413-1420.	6.4	29
75	Charge transport mechanism in networks of armchair graphene nanoribbons. Scientific Reports, 2020, 10, 1988.	1.6	41
76	Hysteresis in graphene nanoribbon field-effect devices. Physical Chemistry Chemical Physics, 2020, 22, 5667-5672.	1.3	9
77	The role of temperature and drive current in skyrmion dynamics. Nature Electronics, 2020, 3, 30-36.	13.1	98
78	Engineering the dynamics of topological spin textures by anisotropic spin-orbit torques. Physical Review B, 2020, 101, .	1.1	13
79	An insulating doped antiferromagnet with low magnetic symmetry as a room temperature spin conduit. Applied Physics Letters, 2020, 117, .	1.5	12
80	Electric-Field Control of Spin-Orbit Torques in Perpendicularly Magnetized $W/Mo/CoFeB/MgO$ Films. Physical Review Letters, 2020, 124, 217701.	2.9	45
81	Control of the coupling strength and linewidth of a cavity magnon-polariton. Physical Review Research, 2020, 2, .	1.3	43
82	Generation of broadband THz transients via metallic spintronic emitters driven by 20-fs pulses at 1030 nm. , 2020, , .		0
83	Exchange bias in epitaxial $Mn_2Au$ ( $0\hat{a}e\%0\hat{a}e\%1$ )/ $Fe$ ( $0\hat{a}e\%0\hat{a}e\%1$ ) bilayers. Journal Physics D: Applied Physics, 2019, 52, 465003.	1.3	3
84	Piezo-electrical control of gyration dynamics of magnetic vortices. Applied Physics Letters, 2019, 115, 062404.	1.5	11
85	Surface resonance of thin films of the Heusler half-metal $CoMn_2Sb$ probed by soft x-ray angular resolved photoemission spectroscopy. Physical Review B, 2019, 99, .	1.1	11
86	Antenna-coupled spintronic terahertz emitters driven by a 1550-nm femtosecond laser oscillator. Applied Physics Letters, 2019, 115, .	1.5	48
87	Spin structure and spin Hall magnetoresistance of epitaxial thin films of the insulating non-collinear antiferromagnet $SmFeO_3$ . Journal of Physics Condensed Matter, 2019, 31, 445804.	0.7	13
88	Tunable Superstructures of Dendronized Graphene Nanoribbons in Liquid Phase. Journal of the American Chemical Society, 2019, 141, 10972-10977.	6.6	36
89	Scaling of intrinsic domain wall magnetoresistance with confinement in electromigrated nanocontacts. Physical Review B, 2019, 99, .	1.1	7
90	Quasi-antiferromagnetic multilayer stacks with 90 degree coupling mediated by thin Fe oxide spacers. Journal of Applied Physics, 2019, 126, .	1.1	9

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91	Interfacial Dzyaloshinskii-Moriya interaction and chiral magnetic textures in a ferrimagnetic insulator. Physical Review B, 2019, 100, .	1.1	73
92	Impact of Pump Wavelength on Terahertz Emission of a Cavity-Enhanced Spintronic Trilayer. , 2019, , .		0
93	Mechanism of Néel Order Switching in Antiferromagnetic Thin Films Revealed by Magnetotransport and Direct Imaging. Physical Review Letters, 2019, 123, 177201.	2.9	119
94	Impact of electromagnetic fields and heat on spin transport signals in $\text{Y}_3\text{Fe}_5\text{O}_{12}$ . Physical Review B, 2019, 100, .		
95	Enhancing domain wall velocity through interface intermixing in W-CoFeB-MgO films with perpendicular anisotropy. Applied Physics Letters, 2019, 115, .	1.5	34
96	Impact of pump wavelength on terahertz emission of a cavity-enhanced spintronic trilayer. Applied Physics Letters, 2019, 114, .	1.5	54
97	Microstructure Design for Fast Lifetime Measurements of Magnetic Tunneling Junctions. Sensors, 2019, 19, 583.	2.1	1
98	Anisotropies and magnetic phase transitions in insulating antiferromagnets determined by a Spin-Hall magnetoresistance probe. Communications Physics, 2019, 2, .	2.0	54
99	Long-range chiral exchange interaction in synthetic antiferromagnets. Nature Materials, 2019, 18, 703-708.	13.3	83
100	Gilbert damping of CoFe-alloys. Journal Physics D: Applied Physics, 2019, 52, 325001.	1.3	10
101	Imaging of current induced Néel vector switching in antiferromagnetic $\text{Mn}_2\text{O}_3$ . Physical Review B, 2019, 99, .		
102	Thermal skyrmion diffusion used in a reshuffler device. Nature Nanotechnology, 2019, 14, 658-661.	15.6	221
103	Tuning of interfacial perpendicular magnetic anisotropy and domain structures in magnetic thin film multilayers. Journal Physics D: Applied Physics, 2019, 52, 295002.	1.3	5
104	Unidirectional Spin Hall Magnetoresistance as a Tool for Probing the Interfacial Spin Polarization of $\text{Co}_2\text{Mn}$ . Physical Review Applied, 2019, 11, .	1.5	11
105	Orientation-dependent direct and inverse spin Hall effects in $\text{Co}_{60}\text{Fe}_{20}\text{B}_{20}$ . Physical Review B, 2019, 99, .	1.1	19
106	Antiferromagnetic NiO thickness dependent sign of the spin Hall magnetoresistance in $\hat{\Gamma}^3\text{-Fe}_2\text{O}_3/\text{NiO}/\text{Pt}$ epitaxial stacks. Applied Physics Letters, 2019, 114, 102405.	1.5	11
107	Staggered Magnetic Nanowire Devices for Effective Domain-Wall Pinning in Racetrack Memory. Physical Review Applied, 2019, 11, .	1.5	44
108	Individual skyrmion manipulation by local magnetic field gradients. Communications Physics, 2019, 2, .	2.0	74

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109	Steering between level repulsion and attraction: broad tunability of two-port driven cavity magnon-polaritons. <i>New Journal of Physics</i> , 2019, 21, 125001.	1.2	27
110	Effect of DC Electric Field on the Emitted THz Signal of Antenna-Coupled Spintronic Emitters. , 2019, , .		0
111	Magnons at low excitations: Observation of incoherent coupling to a bath of two-level systems. <i>Physical Review Research</i> , 2019, 1, .	1.3	19
112	Magnetic Skyrmion as a Nonlinear Resistive Element: A Potential Building Block for Reservoir Computing. <i>Physical Review Applied</i> , 2018, 9, .	1.5	191
113	Complex Terahertz and Direct Current Inverse Spin Hall Effect in YIG/Cu1â€“xlrx Bilayers Across a Wide Concentration Range. <i>Nano Letters</i> , 2018, 18, 1064-1069.	4.5	44
114	Writing and reading antiferromagnetic Mn2Au by Néel spin-orbit torques and large anisotropic magnetoresistance. <i>Nature Communications</i> , 2018, 9, 348.	5.8	348
115	Direct imaging of antiferromagnetic domains in $\text{Mn}_2\text{Au}$ manipulated by high magnetic fields. <i>Physical Review B</i> , 2018, 97, .	5.8	58
116	Signature of a highly spin polarized resonance state at $\text{Co}_2\text{MnSi}/\text{Ag}$ interfaces. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 135307.	1.3	4
117	Evidence for phonon skew scattering in the spin Hall effect of platinum. <i>Physical Review B</i> , 2018, 97, .	1.1	18
118	Magnon detection using a ferroic collinear multilayer spin valve. <i>Nature Communications</i> , 2018, 9, 1089.	5.8	67
119	Spin transport across antiferromagnets induced by the spin Seebeck effect. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 144004.	1.3	32
120	45° sign switching of effective exchange bias due to competing anisotropies in fully epitaxial $\text{Co}_3\text{FeN}/\text{MnN}$ bilayers. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 015806.	0.7	2
121	Spin Hall magnetoresistance in the non-collinear ferrimagnet $\text{Gd}_2\text{O}_3$ close to the compensation temperature. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 035802.	0.7	28
122	Perspective: Magnetic skyrmions—Overview of recent progress in an active research field. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	387
123	Direct observation of spin diffusion enhanced nonadiabatic spin torque effects in rare-earth-doped permalloy. <i>Physical Review B</i> , 2018, 98, .	1.1	3
124	Current-Induced Skyrmion Generation through Morphological Thermal Transitions in Chiral Ferromagnetic Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1805461.	11.1	81
125	Importance of spin current generation and detection by spin injection and the spin Hall effect for lateral spin valve performance. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 465802.	0.7	2
126	Modification of Dzyaloshinskii-Moriya-Interaction-Stabilized Domain Wall Chirality by Driving Currents. <i>Physical Review Letters</i> , 2018, 121, 147203.	2.9	35



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127	Terahertz spectroscopy for all-optical spintronic characterization of the spin-Hall-effect metals Pt, W and Cu <sub>80</sub> Ir <sub>20</sub> . Journal Physics D: Applied Physics, 2018, 51, 364003.	1.3	78
128	Tunable long-distance spin transport in a crystalline antiferromagnetic iron oxide. Nature, 2018, 561, 222-225.	13.7	364
129	Development of a scanning electron microscopy with polarization analysis system for magnetic imaging with ns time resolution and phase-sensitive detection. Review of Scientific Instruments, 2018, 89, 083703.	0.6	13
130	Strain detection in non-magnetic steel by Kerr-microscopy of magnetic tracer layers. Journal of Magnetism and Magnetic Materials, 2018, 465, 143-146.	1.0	2
131	Complex temperature dependence of coupling and dissipation of cavity magnon polaritons from millikelvin to room temperature. Physical Review B, 2018, 97, .	1.1	38
132	Spin transport in multilayer systems with fully epitaxial NiO thin films. Physical Review B, 2018, 98, .	1.1	23
133	Femtosecond formation dynamics of the spin Seebeck effect revealed by terahertz spectroscopy. Nature Communications, 2018, 9, 2899.	5.8	131
134	Full angular dependence of the spin Hall and ordinary magnetoresistance in epitaxial antiferromagnetic NiO(001)/Pt thin films. Physical Review B, 2018, 98, .	1.1	103
135	The ultrafast dynamics and conductivity of photoexcited graphene at different Fermi energies. Science Advances, 2018, 4, eaar5313.	4.7	95
136	N <sup>+</sup> el Spin-Orbit Torque Driven Antiferromagnetic Resonance in Mn <sub>2</sub> Au Probed by Time-Domain THz Spectroscopy. Physical Review Letters, 2018, 120, 237201.	2.9	33
137	Temperature-dependent magnetic anisotropy in the layered magnetic semiconductors Cr <sub>3</sub> and CrB <sub>3</sub> and Phys	0.9	70
138	10.1063/1.5037528.1. , 2018, , .		0
139	Reversible Photochemical Control of Doping Levels in Supported Graphene. Journal of Physical Chemistry C, 2017, 121, 4083-4091.	1.5	28
140	Robust Two-Dimensional Electronic Properties in Three-Dimensional Microstructures of Rotationally Stacked Turbostratic Graphene. Physical Review Applied, 2017, 7, .	1.5	18
141	Chemical Vapor Deposition Synthesis and Terahertz Photoconductivity of Low-Band-Gap $N = 9$ Armchair Graphene Nanoribbons. Journal of the American Chemical Society, 2017, 139, 3635-3638.	6.6	88
142	Geometrical control of pure spin current induced domain wall depinning. Journal of Physics Condensed Matter, 2017, 29, 085802.	0.7	8
143	Magnon Mode Selective Spin Transport in Compensated Ferrimagnets. Nano Letters, 2017, 17, 3334-3340.	4.5	42
144	Reconstruction of an effective magnon mean free path distribution from spin Seebeck measurements in thin films. New Journal of Physics, 2017, 19, 013011.	1.2	10

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145	Manipulation of antiferromagnetic domain distribution in Mn <sub>2</sub> Au by ultrahigh magnetic fields and by strain. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1600438.	1.2	36
146	Skyrmion Hall effect revealed by direct time-resolved X-ray microscopy. <i>Nature Physics</i> , 2017, 13, 170-175.	6.5	607
147	Skyrmions and multisublattice helical states in a frustrated chiral magnet. <i>Physical Review B</i> , 2017, 96, .	1.1	30
148	Geometrical Dependence of Domain-Wall Propagation and Nucleation Fields in Magnetic-Domain-Wall Sensors. <i>Physical Review Applied</i> , 2017, 8, .	1.5	17
149	Investigation of the Dzyaloshinskii-Moriya interaction and room temperature skyrmions in W/CoFeB/MgO thin films and microwires. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	74
150	Switching by Domain-Wall Automotion in Asymmetric Ferromagnetic Rings. <i>Physical Review Applied</i> , 2017, 7, .	1.5	24
151	Temperature dependence of the non-local spin Seebeck effect in YIG/Pt nanostructures. <i>AIP Advances</i> , 2017, 7, .	0.6	27
152	Dimensional Confinement in Carbon-based Structures – From 3D to 1D. <i>Annalen Der Physik</i> , 2017, 529, 1700051.	0.9	6
153	Energy- and $k$ -resolved mapping of the magnetic circular dichroism in threshold photoemission from Co films on Pt(111). <i>Physical Review B</i> , 2017, 95, .	1.1	0
154	Angular dependence of the domain wall depinning field in sensors with segmented corners.. <i>Journal of Physics: Conference Series</i> , 2017, 903, 012053.	0.3	1
155	Reliable Propagation of Magnetic Domain Walls in Cross Structures for Advanced Multiturn Sensors. <i>Physical Review Applied</i> , 2017, 8, .	1.5	11
156	Exploiting Coherence in Nonlinear Spin-Superfluid Transport. <i>Physical Review Letters</i> , 2017, 119, 187705.	2.9	15
157	Measurements of ultrafast spin-profiles and spin-diffusion properties in the domain wall area at a metal/ferromagnetic film interface. <i>Scientific Reports</i> , 2017, 7, 15064.	1.6	11
158	Photoswitchable Micro-Supercapacitor Based on a Diarylethene-Graphene Composite Film. <i>Journal of the American Chemical Society</i> , 2017, 139, 9443-9446.	6.6	96
159	Lateral Fusion of Chemical Vapor Deposited $N = 5$ Armchair Graphene Nanoribbons. <i>Journal of the American Chemical Society</i> , 2017, 139, 9483-9486.	6.6	65
160	Ultrabroadband single-cycle terahertz pulses with peak fields of $300 \text{ kV cm}^{-1}$ from a metallic spintronic emitter. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	158
161	Multiscale simulations of topological transformations in magnetic-skyrmion spin structures. <i>Physical Review B</i> , 2017, 96, .	1.1	26
162	Effective field analysis using the full angular spin-orbit torque magnetometry dependence. <i>Physical Review B</i> , 2017, 95, .	1.1	27

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163	Probing ultrafast changes of spin and charge density profiles with resonant XUV magnetic reflectivity at the free-electron laser FERMI. Structural Dynamics, 2017, 4, 055101.	0.9	7
164	Ferromagnetic layer thickness dependence of the Dzyaloshinskii-Moriya interaction and spin-orbit torques in PtCoAlO <sub>x</sub> . AIP Advances, 2017, 7, .	0.6	24
165	Geometrically enhanced closed-loop multi-turn sensor devices that enable reliable magnetic domain wall motion. Applied Physics Letters, 2017, 111, 242402.	1.5	11
166	Direct imaging of delayed magneto-dynamic modes induced by surface acoustic waves. Nature Communications, 2017, 8, 407.	5.8	72
167	Modification of magnetic anisotropy in Ni thin films by poling of (011) PMN-PT piezosubstrates. Ferroelectrics, 2016, 499, 135-142.	0.3	2
168	Skyrmionen - magnetische Wirbel als Datenspeicher. Physik in Unserer Zeit, 2016, 47, 110-111.	0.0	1
169	Magnetization reversal of the domain structure in the anti-perovskite nitride Co <sub>3</sub> FeN investigated by high-resolution X-ray microscopy. Journal of Applied Physics, 2016, 119, .	1.1	6
170	Enhanced Nonadiabaticity in Vortex Cores due to the Emergent Hall Effect. Physical Review Letters, 2016, 117, 277203.	2.9	29
171	Spin-resolved terahertz spectroscopy. , 2016, , .		0
172	Manipulating antiferromagnets with magnetic fields: Ratchet motion of multiple domain walls induced by asymmetric field pulses. Applied Physics Letters, 2016, 109, 142404.	1.5	23
173	Domain wall spin structures in mesoscopic Fe rings probed by high resolution SEMPA. Journal Physics D: Applied Physics, 2016, 49, 425004.	1.3	6
174	The effect of interface roughness on exchange bias in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> ∕BiFeO <sub>3</sub> heterostructures. Applied Physics Letters, 2016, 108, .	1.5	54
175	Thermal generation of spin current in epitaxial CoFe <sub>2</sub> O <sub>4</sub> thin films. Applied Physics Letters, 2016, 108, .	1.5	26
176	Efficient metallic spintronic emitters of ultrabroadband terahertz radiation. Nature Photonics, 2016, 10, 483-488.	15.6	605
177	Dirac cone and pseudogapped density of states in the topological half-Heusler compound YPtBi. Physical Review B, 2016, 94, .	1.1	9
178	Magnetic skyrmions: from fundamental to applications. Journal Physics D: Applied Physics, 2016, 49, 423001.	1.3	318
179	Localized domain wall nucleation dynamics in asymmetric ferromagnetic rings revealed by direct time-resolved magnetic imaging. Physical Review B, 2016, 94, .	1.1	17
180	Influence of Thickness and Interface on the Low-Temperature Enhancement of the Spin Seebeck Effect in YIG Films. Physical Review X, 2016, 6, .	2.8	103

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181	Quantitative analysis of magnetization reversal in Ni thin films on unpoled and poled (001) [PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> ] <sub>0.68</sub> â€“[PbTiO <sub>3</sub> ] <sub>0.32</sub> piezoelectric substrates. Journal Physics D: Applied Physics, 2016, 49, 335004.		
182	Local Domain-Wall Velocity Engineering via Tailored Potential Landscapes in Ferromagnetic Rings. Physical Review Applied, 2016, 5, .	1.5	10
183	Publisher's Note: Magnetic field control of the spin Seebeck effect [Phys. Rev. B92, 174411 (2015)]. Physical Review B, 2016, 93, .	1.1	0
184	Multiscale model approach for magnetization dynamics simulations. Physical Review B, 2016, 94, .	1.1	15
185	Magnetization switching behavior with competing anisotropies in epitaxial $\text{Co}/\text{MnO}_2/\text{MnO}_2/\text{Co}$ exchange-coupled bilayers. Physical Review B, 2016, 94, .		
186	Synthesis of Graphene Nanoribbons by Ambient-Pressure Chemical Vapor Deposition and Device Integration. Journal of the American Chemical Society, 2016, 138, 15488-15496.	6.6	129
187	Influence of the MgO barrier thickness on the lifetime characteristics of magnetic tunnelling junctions for sensors. Journal Physics D: Applied Physics, 2016, 49, 225001.	1.3	2
188	Asymmetric Hysteresis for Probing Dzyaloshinskiiâ€“Moriya Interaction. Nano Letters, 2016, 16, 4438-4446.	4.5	74
189	Topological Defects in Nanostructuresâ€“Chiral Domain Walls and Skyrmions. Springer Series in Materials Science, 2016, , 199-218.	0.4	3
190	Origin of the spin Seebeck effect in compensated ferrimagnets. Nature Communications, 2016, 7, 10452.	5.8	154
191	Observation of room-temperature magnetic skyrmions and their current-driven dynamics in ultrathin metallic ferromagnets. Nature Materials, 2016, 15, 501-506.	13.3	1,331
192	Chapter 8 Magnetic Skyrmion Dynamics. Series in Materials Science and Engineering, 2016, , 211-238.	0.1	2
193	Domain Wall Memory Device. , 2016, , 1387-1441.		2
194	Monitoring surface resonances on Co <sub>2</sub> MnSi(100) by spin-resolved photoelectron spectroscopy. Physical Review B, 2015, 91, .	1.1	14
195	Accurate calculation of the transverse anisotropy of a magnetic domain wall in perpendicularly magnetized multilayers. Physical Review B, 2015, 92, .	1.1	12
196	Thermal conductance of thin film YIG determined using Bayesian statistics. Physical Review B, 2015, 92, .	1.1	9
197	Magnetic field control of the spin Seebeck effect. Physical Review B, 2015, 92, .	1.1	61
198	Spin-orbit torques for current parallel and perpendicular to a domain wall. Applied Physics Letters, 2015, 107, .	1.5	12

#	ARTICLE	IF	CITATIONS
199	Time-resolved imaging of pulse-induced magnetization reversal with a microwave assist field. Scientific Reports, 2015, 5, 10695.	1.6	3
200	Spin currents injected electrically and thermally from highly spin polarized Co <sub>2</sub> MnSi. Applied Physics Letters, 2015, 107, .	1.5	16
201	Magnetic configurations in nanostructured Co <sub>2</sub> MnGa thin film elements. New Journal of Physics, 2015, 17, 083030.	1.2	10
202	Electroburning of few-layer graphene flakes, epitaxial graphene, and turbostratic graphene discs in air and under vacuum. Beilstein Journal of Nanotechnology, 2015, 6, 711-719.	1.5	19
203	Imaging spin dynamics on the nanoscale using X-Ray microscopy. Frontiers in Physics, 2015, 3, .	1.0	51
204	Thickness and power dependence of the spin-pumping effect in $Y_3Fe_5O_{12}/Pt$ heterostructures measured by the inverse spin Hall effect. Physical Review B, 2015, 91, .	1.1	18
205	Recent developments in the manipulation of magnetic domain walls in CoFeB/MgO wires for applications to high-density nonvolatile memories. , 2015, , 333-378.		5
206	Length Scale of the Spin Seebeck Effect. Physical Review Letters, 2015, 115, 096602.	2.9	163
207	Magnetoresistance and Charge Transport in Graphene Governed by Nitrogen Dopants. ACS Nano, 2015, 9, 1360-1366.	7.3	51
208	Magnetoelectric properties of epitaxial $Fe_3O_4$ thin films on (011) PMN-PT piezosubstrates. Physical Review B, 2015, 91, .	1.1	18
209	Dynamics and inertia of skyrmionic spin structures. Nature Physics, 2015, 11, 225-228.	6.5	304
210	Drastic modification of graphene oxide properties by incorporation of nickel: a simple inorganic chemistry approach. Journal of Materials Science, 2015, 50, 3425-3433.	1.7	1
211	Enhanced Magneto-optic Kerr Effect and Magnetic Properties of $CeY_3O_{12}$ . Physical Review Applied, 2015, 4, .	1.1	18
212	Accessing the fundamentals of magnetotransport in metals with terahertz probes. Nature Physics, 2015, 11, 761-766.	6.5	103
213	Tuning the Magnetic Properties of Carbon by Nitrogen Doping of Its Graphene Domains. Journal of the American Chemical Society, 2015, 137, 7678-7685.	6.6	82
214	Role of spin diffusion in current-induced domain wall motion for disordered ferromagnets. Physical Review B, 2015, 91, .	1.1	23
215	Electrically Driven Magnetic Domain Wall Rotation in Multiferroic Heterostructures to Manipulate Suspended On-Chip Magnetic Particles. ACS Nano, 2015, 9, 4814-4826.	7.3	78
216	Electric field modification of magnetotransport in Ni thin films on (011) PMN-PT piezosubstrates. Applied Physics Letters, 2015, 106, .	1.5	33



#	ARTICLE	IF	CITATIONS
235	Electronic properties of Co <sub>2</sub> FeSi investigated by X-ray magnetic linear dichroism. Journal of Magnetism and Magnetic Materials, 2014, 368, 364-373.	1.0	4
236	The effect of magnetic anisotropy on the spin configurations of patterned La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> elements. Journal of Physics Condensed Matter, 2013, 25, 176004.	0.7	5
237	Double resonance response in nonlinear magnetic vortex dynamics. Physical Review B, 2013, 88, .	1.1	6
238	Magnetic states in low-pinning high-anisotropy material nanostructures suitable for dynamic imaging. Physical Review B, 2013, 87, .	1.1	17
239	Correlation between spin structure oscillations and domain wall velocities. Nature Communications, 2013, 4, 2328.	5.8	55
240	Optimal ferromagnetically-coated carbon nanotube tips for ultra-high resolution magnetic force microscopy. Nanotechnology, 2013, 24, 105705.	1.3	14
241	Domain-Wall Induced Large Magnetoresistance Effects at Zero Applied Field in Ballistic Nanocontacts. Physical Review Letters, 2013, 110, 067203.	2.9	16
242	Magnetic domain structure of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin-films probed at variable temperature with scanning electron microscopy with polarization analysis. Applied Physics Letters, 2013, 102, .	1.5	19
243	Automatable sample fabrication process for pump-probe X-ray holographic imaging. Optics Express, 2013, 21, 30563.	1.7	12
244	ELECTRICAL-FIELD CONTROL OF MAGNETISM MEDIATED BY STRAIN IN Ni NANOSTRUCTURES FABRICATED ON PRE-POLED PMN-PT (011). Spin, 2013, 03, 1340008.	0.6	2
245	The effect of magnetocrystalline anisotropy on the domain structure of patterned Fe <sub>2</sub> CrSi Heusler alloy thin films. Journal of Applied Physics, 2013, 114, 073905.	1.1	8
246	Pure spin current-induced domain wall motion probed by localized spin signal detection. Physical Review B, 2013, 88, .	1.1	18
247	Holographically aided iterative phase retrieval. Optics Express, 2012, 20, 29210.	1.7	19
248	Test of band structure calculations for Heusler compounds by spin-resolved photoemission spectroscopy. Physical Review B, 2012, 86, .	1.1	21
249	Ultrafast optical demagnetization manipulates nanoscale spin structure in domain walls. Nature Communications, 2012, 3, 1100.	5.8	168
250	Determination of the spin torque non-adiabaticity in perpendicularly magnetized nanowires. Journal of Physics Condensed Matter, 2012, 24, 024220.	0.7	10
251	Control of the magnetization in pre-patterned half-metallic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nanostructures. Journal of Applied Physics, 2012, 112, 103921.	1.1	7
252	Interaction between propagating spin waves and domain walls on a ferromagnetic nanowire. Physical Review B, 2012, 85, .	1.1	61

#	ARTICLE	IF	CITATIONS
253	Formation of magnetic domains and domain walls in epitaxial Fe <sub>3</sub> O <sub>4</sub> (100) elements (invited). Journal of Applied Physics, 2011, 109, 07D315.	1.1	23
254	Control of spin configuration in half-metallic La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> nano-structures. Applied Physics Letters, 2011, 99, 062508.	1.5	23
255	Current-induced domain wall motion in nanoscale ferromagnetic elements. Journal Physics D: Applied Physics, 2011, 44, 384005.	1.3	29
256	Spin configurations in Co <sub>2</sub> FeAl <sub>0.4</sub> Si <sub>0.6</sub> Heusler alloy thin film elements. Applied Physics Letters, 2011, 99, .	1.5	13
257	Skyrmions in perpendicular magnetic anisotropy dots: Imaging and simulations. , 2011, , .		0
258	Analytical description for current-induced vortex core displacement. Journal of Applied Physics, 2011, 109, 07C908.	1.1	3
259	Current-induced domain wall motion in nanoscale ferromagnetic elements. Materials Science and Engineering Reports, 2011, 72, 159-187.	14.8	164
260	Extraction of the spin torque non-adiabaticity from thermally activated domain wall hopping. Applied Physics Letters, 2011, 99, .	1.5	7
261	Domain wall velocity measurement in permalloy nanowires with X-ray magnetic circular dichroism imaging and single shot Kerr microscopy. Journal of Magnetism and Magnetic Materials, 2010, 322, 1347-1352.	1.0	10
262	Tailoring laser-induced domain wall pinning. Solid State Communications, 2010, 150, 489-491.	0.9	17
263	Current-induced domain wall motion in Ni <sub>80</sub> Fe <sub>20</sub> nanowires with low depinning fields. Journal Physics D: Applied Physics, 2010, 43, 045003.	1.3	9
264	Direct Determination of Large Spin-Torque Nonadiabaticity in Vortex Core Dynamics. Physical Review Letters, 2010, 105, 187203.	2.9	58
265	Imaging of Domain Wall Inertia in Permalloy Half-Ring Nanowires by Time-Resolved Photoemission Electron Microscopy. Physical Review Letters, 2010, 104, 067201.	2.9	49
266	Nonadiabatic Spin Torque Investigated Using Thermally Activated Magnetic Domain Wall Dynamics. Physical Review Letters, 2010, 105, 056601.	2.9	86
267	Magnetic-field-induced domain-wall motion in permalloy nanowires with modified Gilbert damping. Physical Review B, 2010, 82, .	1.1	26
268	Direct imaging of current induced magnetic vortex gyration in an asymmetric potential well. Applied Physics Letters, 2010, 96, 152506.	1.5	15
269	Spatially resolved measurements of the ferromagnetic phase transition by ac-susceptibility investigations with x-ray photoelectron emission microscope. Applied Physics Letters, 2010, 96, .	1.5	3
270	Current-induced domain wall motion in Co/Pt nanowires: Separating spin torque and Oersted-field effects. Applied Physics Letters, 2010, 96, .	1.5	47



#	ARTICLE	IF	CITATIONS
271	In situ contacting and current-injection into samples in photoemission electron microscopes. Review of Scientific Instruments, 2010, 81, 113707.	0.6	10
272	Direct observation of high velocity current induced domain wall motion. Applied Physics Letters, 2010, 96, 032504.	1.5	33
273	Domain-Wall Depinning Assisted by Pure Spin Currents. Physical Review Letters, 2010, 105, 076601.	2.9	44
274	Magnetotransport effects of ultrathin Ni80Fe20 films probed in situ. New Journal of Physics, 2010, 12, 013001.	1.2	9
275	Domain Wall Spin Structures and Dynamics Probed by Synchrotron Techniques. Springer Proceedings in Physics, 2010, , 367-384.	0.1	2
276	Current-induced vortex dynamics and pinning potentials probed by homodyne detection. Physical Review B, 2010, 82, .	1.1	42
277	Analytical description for current-induced vortex core displacement. , 2010, , .		0
278	Magnetoresistance measurement of tailored Permalloy nanocontacts. Physical Review B, 2010, 82, .	1.1	9
279	Scaling of spin relaxation and angular momentum dissipation in permalloy nanowires. Physical Review B, 2009, 80, .	1.1	26
280	Geometry-dependent scaling of critical current densities for current-induced domain wall motion and transformations. Physical Review B, 2009, 80, .	1.1	8
281	Temperature dependence of the current-induced domain wall motion from a modified Landau-Lifshitz-Bloch equation. Physical Review B, 2009, 80, .	1.1	45
282	Effects of combined current injection and laser irradiation on Permalloy microwire switching. Applied Physics Letters, 2009, 95, 212502.	1.5	8
283	Vortex domain wall chirality rectification due to the interaction with end domain spin structures in permalloy nanowires. Applied Physics Letters, 2009, 95, .	1.5	14
284	Detection of vortex core polarities by a homodyne detection scheme. , 2009, , .		0
285	Reversible switching between bidomain states by injection of current pulses in a magnetic wire with out-of-plane magnetization. Journal of Applied Physics, 2009, 105, 07C106.	1.1	18
286	Tunable steady-state domain wall oscillator with perpendicular magnetic anisotropy. Applied Physics Letters, 2009, 95, .	1.5	49
287	Racetrack "Speicher" Magnetband reloaded? Datenspeicher auf Basis magnetischer Domänenwände. Physik in Unserer Zeit, 2009, 40, 138-144.	0.0	1
288	Concepts for Domain Wall Motion in Nanoscale Ferromagnetic Elements due to Spin Torque and in Particular Oersted Fields. Journal of Magnetism, 2009, 14, 53-61.	0.2	9

#	ARTICLE	IF	CITATIONS
289	Flipping a domain wall switch. <i>Physics Magazine</i> , 2008, 1, .	0.1	4
290	Large-Scale Synthesis of Single-Crystalline Iron Oxide Magnetic Nanorings. <i>Journal of the American Chemical Society</i> , 2008, 130, 16968-16977.	6.6	438
291	Quantitative determination of vortex core dimensions in head-to-head domain walls using off-axis electron holography. <i>Applied Physics Letters</i> , 2008, 92, 112502.	1.5	19
292	Selective domain wall depinning by localized Oersted fields and Joule heating. <i>Applied Physics Letters</i> , 2008, 93, 132503.	1.5	20
293	Energy Equilibration Processes of Electrons, Magnons, and Phonons at the Femtosecond Time Scale. <i>Physical Review Letters</i> , 2008, 101, 237401.	2.9	63
294	Head-to-head domain walls in magnetic nanostructures. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 313001.	0.7	178
295	Single shot Kerr magnetometer for observing real-time domain wall motion in permalloy nanowires. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 164009.	1.3	18
296	Nonadiabatic Spin Transfer Torque in High Anisotropy Magnetic Nanowires with Narrow Domain Walls. <i>Physical Review Letters</i> , 2008, 101, 216601.	2.9	128
297	Correlation between magnetic spin structure and the three-dimensional geometry in chemically synthesized nanoscale magnetite rings. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	9
298	Relationship between Nonadiabaticity and Damping in Permalloy Studied by Current Induced Spin Structure Transformations. <i>Physical Review Letters</i> , 2008, 100, 066603.	2.9	78
299	Quantitative Determination of the Nonlinear Pinning Potential for a Magnetic Domain Wall. <i>Physical Review Letters</i> , 2008, 101, 256602.	2.9	49
300	Easy axis magnetization reversal in cobalt antidot arrays. <i>Journal of Applied Physics</i> , 2008, 103, 07D509.	1.1	17
301	Direct imaging of current-induced domain wall motion in CoFeB structures. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	18
302	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3
303	Micromagnetism and magnetotransport properties of micron-sized epitaxialCrO <sub>2</sub> (100)wires. <i>Physical Review B</i> , 2007, 75, .	1.1	23
304	Angular dependence of the depinning field for head-to-head domain walls at constrictions. <i>Journal of Applied Physics</i> , 2007, 101, 09F509.	1.1	13
305	Influence of substrate roughness on the magnetic properties of thin fcc Co films. <i>Journal of Applied Physics</i> , 2007, 101, 09D113.	1.1	7
306	Effect of substrate roughness on the magnetic properties of thin fcc Co films. <i>Physical Review B</i> , 2007, 76, .	1.1	27

#	ARTICLE	IF	CITATIONS
307	The influence of thermal activation and the intrinsic temperature dependence of the spin torque effect in current-induced domain wall motion. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1247-1252.	1.3	12
308	Spin torque and heating effects in current-induced domain wall motion probed by transmission electron microscopy. <i>Applied Physics Letters</i> , 2007, 90, 132506.	1.5	57
309	Domain structures and the influence of current on domains and domain walls in highly spin-polarized CrO <sub>2</sub> wire elements. <i>Physical Review B</i> , 2007, 75, .	1.1	18
310	Transverse domain walls in nanoconstrictions. <i>Applied Physics Letters</i> , 2007, 91, 112502.	1.5	39
311	Detection of Current-Induced Resonance of Geometrically Confined Domain Walls. <i>Physical Review Letters</i> , 2007, 99, 146601.	2.9	93
312	Ferromagnetic nanorings. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 255207.	0.7	68
313	Domain walls, domain wall transformations and structural changes in permalloy nanowires when subjected to current pulses. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3922-3928.	0.8	22
314	Numerical investigation of spin-torque using the Heisenberg model. <i>European Physical Journal B</i> , 2007, 59, 429-433.	0.6	32
315	Nano-Systems in External Fields and Reduced Geometry: Numerical Investigations. , 2007, , 97-112.		0
316	Magnetization reversal in cobalt antidot arrays. <i>Physical Review B</i> , 2006, 73, .	1.1	91
317	Magnetic states in wide annular structures. <i>Journal of Applied Physics</i> , 2006, 99, 08G308.	1.1	12
318	Temperature Dependence of the Spin Torque Effect in Current-Induced Domain Wall Motion. <i>Physical Review Letters</i> , 2006, 97, 046602.	2.9	92
319	Observation of thermally activated domain wall transformations. <i>Applied Physics Letters</i> , 2006, 88, 052507.	1.5	96
320	Quantitative determination of domain wall coupling energetics. <i>Applied Physics Letters</i> , 2006, 88, 212510.	1.5	39
321	Fabrication of curved-line nanostructures on membranes for transmission electron microscopy investigations of domain walls. <i>Microelectronic Engineering</i> , 2006, 83, 1726-1729.	1.1	13
322	Fundamental magnetic states of disk and ring elements. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 246, 13-19.	0.6	23
323	Anisotropy engineering in Co nanodiscs fabricated using prepatterned silicon pillars. <i>Nanotechnology</i> , 2006, 17, 1960-1963.	1.3	4
324	Current-induced vortex nucleation and annihilation in vortex domain walls. <i>Applied Physics Letters</i> , 2006, 88, 232507.	1.5	85

#	ARTICLE	IF	CITATIONS
325	Spatially Resolved Dynamic Eigenmode Spectrum of Co Rings. <i>Physical Review Letters</i> , 2006, 96, 057207.	2.9	67
326	Velocity of vortex walls moved by current. <i>Journal of Applied Physics</i> , 2006, 99, 08G523.	1.1	26
327	Fabrication of magnetic ring structures for Lorentz electron microscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 86-89.	1.0	13
328	Spin switching phase diagram of mesoscopic ring magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 61-67.	1.0	42
329	Domain wall coupling and collective switching in interacting mesoscopic ring magnet arrays. <i>Applied Physics Letters</i> , 2005, 86, 032504.	1.5	32
330	Critical parameters for current-induced domain wall motion. , 2005, , .		0
331	Controlled and Reproducible Domain Wall Displacement by Current Pulses Injected into Ferromagnetic Ring Structures. <i>Physical Review Letters</i> , 2005, 94, 106601.	2.9	301
332	Current induced modifications of domain wall. , 2005, , .		0
333	Direct Observation of Domain-Wall Configurations Transformed by Spin Currents. <i>Physical Review Letters</i> , 2005, 95, 026601.	2.9	327
334	Multiplicity of magnetic domain states in circular elements probed by photoemission electron microscopy. <i>Physical Review B</i> , 2005, 72, .	1.1	35
335	Direct observation of domain-wall pinning at nanoscale constrictions. <i>Applied Physics Letters</i> , 2005, 87, 102509.	1.5	127
336	Observation of a geometrically constrained domain wall in epitaxial FCC Co small disks. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1674-1675.	1.0	7
337	Spin configurations and classification of switching processes in ferromagnetic rings down to sub-dimensions. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1631-1636.	1.0	26
338	Domain wall behaviour at constrictions in ferromagnetic ring structures. <i>Physica B: Condensed Matter</i> , 2004, 343, 343-349.	1.3	38
339	Domain wall pinning in ferromagnetic structures fabricated by focused ion beam. <i>Microelectronic Engineering</i> , 2004, 73-74, 785-789.	1.1	11
340	Effect of the magnetocrystalline anisotropy on the magnetic behavior of ring elements. <i>Journal of Applied Physics</i> , 2004, 95, 6732-6734.	1.1	8
341	Switching processes and switching reproducibility in ferromagnetic ring structures. <i>Applied Physics Letters</i> , 2004, 84, 951-953.	1.5	52
342	Head-to-head domain-wall phase diagram in mesoscopic ring magnets. <i>Applied Physics Letters</i> , 2004, 85, 5637-5639.	1.5	118

#	ARTICLE	IF	CITATIONS
343	Multistep switching phase diagram of ferromagnetic ring structures. Journal of Applied Physics, 2004, 95, 6639-6641.	1.1	23
344	Switching field phase diagram of Co nanoring magnets. Applied Physics Letters, 2003, 82, 2470-2472.	1.5	122
345	Domain wall pinning and controlled magnetic switching in narrow ferromagnetic ring structures with notches (invited). Journal of Applied Physics, 2003, 93, 7885-7890.	1.1	33
346	Direct observation of remanent magnetic states in epitaxial fcc Co small disks. Physical Review B, 2003, 67, .	1.1	54
347	Fabrication and anisotropy investigations of patterned epitaxial magnetic films using a lift-off process. Journal of Applied Physics, 2003, 93, 7349-7351.	1.1	5
348	Domain wall motion induced by spin polarized currents in ferromagnetic ring structures. Applied Physics Letters, 2003, 83, 105-107.	1.5	172
349	Direct observation of spin configurations and classification of switching processes in mesoscopic ferromagnetic rings. Physical Review B, 2003, 68, .	1.1	83
350	Nanoscale ferromagnetic rings fabricated by electron-beam lithography. Journal of Applied Physics, 2003, 93, 10011-10013.	1.1	63
351	Domain Wall Pinning in Narrow Ferromagnetic Ring Structures Probed by Magnetoresistance Measurements. Physical Review Letters, 2003, 90, 097202.	2.9	183
352	Vortex formation in narrow ferromagnetic rings. Journal of Physics Condensed Matter, 2003, 15, R985-R1024.	0.7	232
353	Magnetoresistance magnetometry of (Ni <sub>80</sub> Fe <sub>20</sub> ) <sup>100</sup> nm wires with varying anisotropic magnetoresistance ratio. Journal of Applied Physics, 2003, 93, 8104-8106.	1.1	4
354	Controlled magnetic switching in single narrow rings probed by magnetoresistance measurements. Applied Physics Letters, 2002, 81, 108-110.	1.5	114
355	Fabrication and magnetic properties of prepatterned epitaxial nanodots. Microelectronic Engineering, 2002, 61-62, 593-600.	1.1	3
356	Fabrication of magnetic rings for high density memory devices. Microelectronic Engineering, 2002, 61-62, 577-583.	1.1	27
357	Switching properties of free-standing epitaxial ring magnets. Journal of Magnetism and Magnetic Materials, 2002, 240, 7-10.	1.0	41
358	Fast and controllable switching in narrow ring nanomagnets. Journal of Magnetism and Magnetic Materials, 2002, 242-245, 553-558.	1.0	15
359	Mesoscopic FCC Co ring magnets. Journal of Magnetism and Magnetic Materials, 2002, 249, 208-213.	1.0	2
360	Vortex formation in magnetic narrow rings: The role of magneto-crystalline anisotropy. Journal of Applied Physics, 2001, 89, 7579-7581.	1.1	35

#	ARTICLE	IF	CITATIONS
361	Vortex circulation control in mesoscopic ring magnets. Applied Physics Letters, 2001, 78, 3268-3270.	1.5	140
362	Observation of a Bi-Domain State and Nucleation Free Switching in Mesoscopic Ring Magnets. Physical Review Letters, 2001, 86, 1098-1101.	2.9	454
363	Effects of interdot dipole coupling in mesoscopic epitaxial Fe[100] dot arrays. IEEE Transactions on Magnetics, 2001, 37, 2055-2057.	1.2	15
364	Correction to "Computational study of first magnetization curves in small rings". IEEE Transactions on Magnetics, 2001, 37, 3085-3085.	1.2	1
365	Precessional switching in narrow ring nanomagnets. Physica B: Condensed Matter, 2001, 306, 211-215.	1.3	18
366	Computational study of first magnetization curves in small rings. IEEE Transactions on Magnetics, 2000, 36, 3155-3157.	1.2	41
367	Giant Dzyaloshinskii-Moriya Interaction and Room-Temperature Nanoscale Skyrmions in CoFeB/MgO Heterostructures. SSRN Electronic Journal, 0, , .	0.4	0