De-Lin Zhang

List of Publications by Year
in descending order

175 papers	5,756 citations	94269 37 h-index	91712 69 g-index
176 all docs	176 docs citations	176 times ranked	6094 citing authors

#	Article	IF	Citations
1	A review on magnetic and spintronic neurostimulation: challenges and prospects. Nanotechnology, 2022, 33, 182004.	1.3	12
2	Ferromagnetic resonance and magnetization switching characteristics of perpendicular magnetic tunnel junctions with synthetic antiferromagnetic free layers. Applied Physics Letters, 2022, 120, .	1.5	7
3	Strength-frequency curve for micromagnetic neurostimulation through excitatory postsynaptic potentials (EPSPs) on rat hippocampal neurons and numerical modeling of magnetic microcoil (Î¼coil). Journal of Neural Engineering, 2022, 19, 016018.	1.8	7
4	Bipolar Electric-Field Switching of Perpendicular Magnetic Tunnel Junctions through Voltage-Controlled Exchange Coupling. Nano Letters, 2022, 22, 622-629.	4.5	15
5	CRAM-Seq: Accelerating RNA-Seq Abundance Quantification Using Computational RAM. IEEE Transactions on Emerging Topics in Computing, 2022, 10, 2055-2071.	3.2	2
6	Giant magnetoresistance, Fermi-surface topology, Shoenberg effect, and vanishing quantum oscillations in the type-II Dirac semimetal candidates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSi</mml:mi><mml:mn>2</mml:mn></mml:msub></mm and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSi</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2022, 105, .	1.1	8
7	Giant Magnetoresistance Biosensors in Biomedical Applications. ACS Applied Materials & Interfaces, 2022, 14, 9945-9969.	4.0	31
8	Enhancement of voltage controlled magnetic anisotropy (VCMA) through electron depletion. Journal of Applied Physics, 2022, 131, .	1.1	6
9	Sub-ns Switching and Cryogenic-Temperature Performance of Mo-Based Perpendicular Magnetic Tunnel Junctions. IEEE Electron Device Letters, 2022, 43, 1215-1218.	2.2	3
10	Ultralow Current Switching of Syntheticâ€Antiferromagnetic Magnetic Tunnel Junctions Via Electricâ€Field Assisted by Spinâ€“Orbit Torque. Advanced Electronic Materials, 2022, 8, .	2.6	3
11	Charge trapping analysis in sputtered BixSe1-x based accumulation-mode FETs. II. Gate capacitance characteristics. AIP Advances, 2021, 11, 015221.	0.6	0
12	Magnetocrystalline anisotropy of Î±â€³â€“Fe16N2 under various DFT approaches. AIP Advances, 2021, 11, .	0.6	6
13	A Portable Magnetic Particle Spectrometer for Future Rapid and Wash-Free Bioassays. ACS Applied Materials & Interfaces, 2021, 13, 7966-7976.	4.0	17
14	Investigation of Commercial Iron Oxide Nanoparticles: Structural and Magnetic Property Characterization. ACS Omega, 2021, 6, 6274-6283.	1.6	21
15	Buffer layer engineering of L1 FePd thin films with large perpendicular magnetic anisotropy. AIP Advances, 2021, 11, .	0.6	8
16	Giant Anomalous Hall Effect due to Double-Degenerate Quasiflat Bands. Physical Review Letters, 2021, 126, 106601.	2.9	16
17	Large fieldlike torque in amorphous Ru2Sn3 originated from the intrinsic spin Hall effect. Physical Review Materials, 2021, 5, .	0.9	7
18	Magnetic Particle Spectroscopy with One-Stage Lock-In Implementation for Magnetic Bioassays with Improved Sensitivities. Journal of Physical Chemistry C, 2021, 125, 17221-17231.	1.5	8

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19	Surface acoustic wave induced modulation of tunneling magnetoresistance in magnetic tunnel junctions. Journal of Applied Physics, 2021, 130, .	1.1	3
20	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. Nature Nanotechnology, 2021, 16, 981-988.	15.6	45
21	One-Step, Wash-free, Nanoparticle Clustering-Based Magnetic Particle Spectroscopy Bioassay Method for Detection of SARS-CoV-2 Spike and Nucleocapsid Proteins in the Liquid Phase. ACS Applied Materials & Interfaces, 2021, 13, 44136-44146.	4.0	35
22	Advances in Magnetoresistive Biosensors. Micromachines, 2020, 11, 34.	1.4	53
23	Magnetic-Nanosensor-Based Virus and Pathogen Detection Strategies before and during COVID-19. ACS Applied Nano Materials, 2020, 3, 9560-9580.	2.4	81
24	Low Gilbert damping and high thermal stability of Ru-seeded L1-phase FePd perpendicular magnetic thin films at elevated temperatures. Applied Physics Letters, 2020, 117, .	1.5	13
25	Effects of mobile oxygen ions in top-gated synthetic antiferromagnet structure. Applied Physics Letters, 2020, 117, .	1.5	2
26	Effect of Oblique Versus Normal Deposition on the Properties of Perpendicularly Magnetized L1₀ FePd Thin Films. IEEE Magnetics Letters, 2020, 11, 1-5.	0.6	2
27	High-Yield Gas-Phase Condensation Synthesis of Nanoparticles to Enable a Wide Array of Applications. ACS Applied Nano Materials, 2020, 3, 7942-7949.	2.4	8
28	High-frequency magnetoacoustic resonance through strain-spin coupling in perpendicular magnetic multilayers. Science Advances, 2020, 6, .	4.7	16
29	Magnetic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>16</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> determined by polarized neutron diffraction on thin-film samples. Physical Review B, 2020, 102, .	1.1	10
30	Magnetic Particle Spectroscopy: A Short Review of Applications Using Magnetic Nanoparticles. ACS Applied Nano Materials, 2020, 3, 4972-4989.	2.4	78
31	Theory of Quantum Computation With Magnetic Clusters. IEEE Transactions on Quantum Engineering, 2020, 1, 1-8.	2.9	1
32	Voltage-Controlled Antiferromagnetism in Magnetic Tunnel Junctions. Physical Review Letters, 2020, 124, 187701.	2.9	15
33	Spin pumping and large field-like torque at room temperature in sputtered amorphous WTe2âˆ’x films. APL Materials, 2020, 8, .	2.2	21
34	Irregularly Shaped Iron Nitride Nanoparticles as a Potential Candidate for Biomedical Applications: From Synthesis to Characterization. ACS Omega, 2020, 5, 11756-11767.	1.6	14
35	Magnetic Particle Spectroscopy for Detection of Influenza A Virus Subtype H1N1. ACS Applied Materials & Interfaces, 2020, 12, 13686-13697.	4.0	55
36	Design and fabrication of integrated magnetic field sensing system with enhanced sensitivity. Journal of Magnetism and Magnetic Materials, 2020, 511, 166728.	1.0	5

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37	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. Physical Review B, 2020, 101, .	1.1	27
38	Externalâ€Fieldâ€Free Spin Hall Switching of Perpendicular Magnetic Nanopillar with a Dipoleâ€Coupled Composite Structure. Advanced Electronic Materials, 2020, 6, 1901368.	2.6	29
39	High-moment magnetic nanoparticles. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	25
40	Charge trapping analysis in sputtered BixSe1-x based accumulation-mode FETs. AIP Advances, 2020, 10, 015315.	0.6	2
41	Large-scale interlayer rotations and Te grain boundaries in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn thin films. Physical Review Materials, 2020, 4, .	0.9	10
42	In-Memory Processing on the Spintronic CRAM: From Hardware Design to Application Mapping. IEEE Transactions on Computers, 2019, 68, 1159-1173.	2.4	69
43	Observation of High Spin-to-Charge Conversion by Sputtered Bismuth Selenide Thin Films at Room Temperature. Nano Letters, 2019, 19, 4836-4844.	4.5	33
44	Synthesis of Î±â€²â€²-Fe₁₆N₂ribbons with a porous structure. Nanoscale Advances, 2019, 1, 1337-1342.	2.2	20
45	Magnetic nanoparticles in nanomedicine: a review of recent advances. Nanotechnology, 2019, 30, 502003.	1.3	340
46	Spinâ€“Orbit Torque and Spin Hall Effect-Based Cellular Level Therapeutic Spintronic Neuromodulator: A Simulation Study. Journal of Physical Chemistry C, 2019, 123, 24963-24972.	1.5	7
47	Detection of Influenza a Virus in Swine Nasal Swab Samples With a Wash-Free Magnetic Bioassay and a Handheld Giant Magnetoresistance Sensing System. Frontiers in Microbiology, 2019, 10, 1077.	1.5	53
48	An Energy Efficient Non-Volatile Flip-Flop based on CoMET Technology. , 2019, , .		2
49	Heavyâ€Metalâ€Free, Lowâ€Damping, and Nonâ€Interface Perpendicular Fe 16 N 2 Thin Film and Magnetoresistance Device. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900089.	1.2	12
50	High saturation magnetization and low magnetic anisotropy Fe-CN martensite thin film. Applied Physics Letters, 2019, 114, .	1.5	9
51	Using Spin-Hall MTJs to Build an Energy-Efficient In-memory Computation Platform. , 2019, , .		26
52	Incorporation of Phosphorus Impurities in a Silicon Nanowire Transistor with a Diameter of 5 nm. Micromachines, 2019, 10, 127.	1.4	4
53	Room-temperature spin-to-charge conversion in sputtered bismuth selenide thin films via spin pumping from yttrium iron garnet. Applied Physics Letters, 2019, 114, .	1.5	22
54	SkyLogicâ€”A Proposal for a Skyrmion-Based Logic Device. IEEE Transactions on Electron Devices, 2019, 66, 1990-1996.	1.6	26

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55	Experimental demonstration of integrated magneto-electric and spin-orbit building blocks implementing energy-efficient logic. , 2019, , .		8
56	Tunable magnetic domain walls for therapeutic neuromodulation at cellular level: Stimulating neurons through magnetic domain walls. Journal of Applied Physics, 2019, 126, .	1.1	7
57	Development of a multiplexed giant magnetoresistive biosensor array prototype to quantify ovarian cancer biomarkers. Biosensors and Bioelectronics, 2019, 126, 301-307.	5.3	61
58	Large-area GMR bio-sensors based on reverse nucleation switching mechanism. Journal of Magnetism and Magnetic Materials, 2019, 473, 484-489.	1.0	13
59	Tunable charge to spin conversion in strontium iridate thin films. Physical Review Materials, 2019, 3, .	0.9	37
60	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>L</mml:mi><mml:mn>1</mml:mn></mml:mrow><mml:mrow><mml:mi> Synthetic Antiferromagnet through an fcc Ru Spacer Utilized for Perpendicular Magnetic Tunnel Junctions. Physical Review Applied, 2018, 9, .	1.5	23
61	High spin polarization in epitaxial Fe4N thin films using Cr and Ag as buffer layers. Applied Physics Letters, 2018, 112, 162407.	1.5	19
62	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L1-FePd perpendicular magnetic tunnel junctions. Applied Physics Letters, 2018, 112, .	1.5	15
63	Nanotechnology: Review of concepts and potential application of sensing platforms in food safety. Food Microbiology, 2018, 75, 47-54.	2.1	131
64	Mapping strain with magnetics. Nature Electronics, 2018, 1, 96-97.	13.1	2
65	Unidirectional spin-Hall and Rashbaâ^'Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. Nature Communications, 2018, 9, 111.	5.8	87
66	Computing-in-memory with spintronics. , 2018, , .		12
67	Weak antilocalization and low-temperature characterization of sputtered polycrystalline bismuth selenide. Applied Physics Letters, 2018, 112, .	1.5	16
68	Efficient In-Memory Processing Using Spintronics. IEEE Computer Architecture Letters, 2018, 17, 42-46.	1.0	49
69	Field-free switching of a perpendicular magnetic tunnel junction through the interplay of spinâ€“orbit and spin-transfer torques. Nature Electronics, 2018, 1, 582-588.	13.1	304
70	Evaluation of Operating Margin and Switching Probability of Voltage- Controlled Magnetic Anisotropy Magnetic Tunnel Junctions. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2018, 4, 76-84.	1.1	18
71	Quantitative analysis and optimization of magnetization precession initiated by ultrafast optical pulses. Applied Physics Letters, 2018, 113, .	1.5	12
72	Performance Characterization and Majority Gate Design for MESO-Based Circuits. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2018, 4, 51-59.	1.1	8

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73	Low Gilbert Damping Constant in Perpendicularly Magnetized W/CoFeB/MgO Films with High Thermal Stability. Scientific Reports, 2018, 8, 13395.	1.6	50
74	Demonstration of Ru as the 4th ferromagnetic element at room temperature. Nature Communications, 2018, 9, 2058.	5.8	29
75	Room-temperature high spinâ€“orbit torque due to quantum confinement in sputtered BixSe(1â€“x) films. Nature Materials, 2018, 17, 800-807.	13.3	344
76	Epitaxial Fe16N2 thin film on nonmagnetic seed layer. Applied Physics Letters, 2018, 112, .	1.5	10
77	Iron nanoparticles with tunable tetragonal structure and magnetic properties. Physical Review Materials, 2018, 2, .	0.9	12
78	High Performance MgO-barrier Magnetic Tunnel Junctions for Flexible and Wearable Spintronic Applications. Scientific Reports, 2017, 7, 42001.	1.6	70
79	FORC-study of magnetization reversal of L10-FePt based exchange coupled composite films. AIP Advances, 2017, 7, 056510.	0.6	0
80	CoMET: Composite-Input Magnetoelectric- Based Logic Technology. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2017, 3, 27-36.	1.1	22
81	Advanced spintronic memory and logic for non-volatile processors. , 2017, , .		15
82	Characterization: Characterizing Physical Properties of Superparamagnetic Nanoparticles in Liquid Phase Using Brownian Relaxation (Small 22/2017). Small, 2017, 13, .	5.2	0
83	Characterizing Physical Properties of Superparamagnetic Nanoparticles in Liquid Phase Using Brownian Relaxation. Small, 2017, 13, 1604135.	5.2	26
84	Portable GMR Handheld Platform for the Detection of Influenza A Virus. ACS Sensors, 2017, 2, 1594-1601.	4.0	96
85	Localized detection of reversal nucleation generated by high moment magnetic nanoparticles using a large-area magnetic sensor. Journal of Applied Physics, 2017, 122, 123901.	1.1	19
86	Deposition and spin polarization study of Fe4N thin films with (111) orientation. AIP Advances, 2017, 7, 095001.	0.6	4
87	Picosecond Fresnel transmission electron microscopy. Applied Physics Letters, 2017, 110, 222404.	1.5	22
88	Field-free spin-orbit torque switching of composite perpendicular CoFeB/Gd/CoFeB layers utilized for three-terminal magnetic tunnel junctions. Applied Physics Letters, 2017, 111, .	1.5	34
89	A Comparative Study Between Spin-Transfer-Torque and Spin-Hall-Effect Switching Mechanisms in PMTJ Using SPICE. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2017, 3, 74-82.	1.1	33
90	Molecular dynamic simulation study of plasma etching L1 FePt media in embedded mask patterning (EMP) process. AIP Advances, 2017, 7, .	0.6	1

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91	Effect of capping layer on formation and magnetic properties of MnBi thin films. Journal of Applied Physics, 2017, 122, 213904.	1.1	6
92	Damping constant measurement and inverse giant magnetoresistance in spintronic devices with Fe4N. AIP Advances, 2017, 7, .	0.6	9
93	Giant Magnetoresistance-based Biosensor for Detection of Influenza A Virus. Frontiers in Microbiology, 2016, 7, 400.	1.5	132
94	Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus. Advanced Electronic Materials, 2016, 2, 1600040.	2.6	85
95	Microstructure Analysis of Melt Spun FeN foils with Î±â€™â€™-Fe16N2 Phase. MRS Advances, 2016, 1, 2373-2378	0.5	1
96	DFT calculation and experimental investigation of Mn doping effect in Fe16N2. AIP Advances, 2016, 6, .	0.6	20
97	High Ms Fe16N2 thin film with Ag under layer on GaAs substrate. AIP Advances, 2016, 6, .	0.6	1
98	Synthesis of Fe16N2 compound Free-Standing Foils with 20 MGOe Magnetic Energy Product by Nitrogen Ion-Implantation. Scientific Reports, 2016, 6, 25436.	1.6	50
99	Fast spintronic thermal sensor for IC power driver cooling down. , 2016, , .		4
100	A fast magnetoelectric device based on current-driven domain wall propagation. , 2016, , .		7
101	Magnetoelectric device feasibility demonstration â€" Voltage control of exchange bias in perpendicular Cr<inf>2</inf>O<inf>3</inf> Hall bar device. , 2016, , .		1
102	Synthesis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Î±</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo><m mathvariant="normal">N</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Anisotropic Magnet by t. Physical Review Applied, 2016, 6, .	1.6	20
103	Laser-initiated magnetization reversal and correlated morphological effects visualized within situFresnel transmission electron microscopy. Physical Review B, 2016, 94, .	1.1	2
104	Black Phosphorus: Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus (Adv. Electron. Mater. 5/2016). Advanced Electronic Materials, 2016, 2, .	2.6	4
105	Non-Local Lateral Spin-Valve Devices Fabricated With a Versatile Top-Down Fabrication Process. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	2
106	Time-Resolved Magneto-Optical Kerr Effect of Magnetic Thin Films for Ultrafast Thermal Characterization. Journal of Physical Chemistry Letters, 2016, 7, 2328-2332.	2.1	29
107	Preparation of an Î±â€³â€Fe₁₆N₂ Magnet via a Ball Milling and Shock Compaction Approach. Advanced Engineering Materials, 2016, 18, 1009-1016.	1.6	29
108	<italic>In Vitro</italic> Viscosity Measurement on Superparamagnetic Nanoparticle Suspensions. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	6

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109	Magnetization Response Spectroscopy of Superparamagnetic Nanoparticles Under Mixing Frequency Fields. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
110	Biocompatible Feâ€“Si Nanoparticles with Adjustable Self-Regulation of Temperature for Medical Applications. ACS Applied Materials & Interfaces, 2015, 7, 12649-12654.	4.0	18
111	Giant magnetoresistive-based biosensing probe station system for multiplex protein assays. Biosensors and Bioelectronics, 2015, 70, 61-68.	5.3	68
112	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spinâˆ'Orbit Coupling of Topological Insulator Bi₂Se₃. Nano Letters, 2015, 15, 7126-7132.	4.5	257
113	FeN foils by nitrogen ion-implantation. Journal of Applied Physics, 2014, 115, 17A753.	1.1	13
114	Thermal stability of partially ordered Fe16N2 film on non-magnetic Ag under layer. Journal of Applied Physics, 2014, 115, .	1.1	10
115	Scaling analysis of in-plane and perpendicular anisotropy magnetic tunnel junctions using a physics-based model. , 2014, , .		12
116	Surface modification and bioconjugation of FeCo magnetic nanoparticles with proteins. Colloids and Surfaces B: Biointerfaces, 2014, 117, 449-456.	2.5	14
117	The effect of electric field induced magnetic anisotropy in ferromagnetic resonance in magnetic tunnel junctions. , 2014, , .		0
118	Magnetic Detection of Mercuric Ion Using Giant Magnetoresistance-Based Biosensing System. Analytical Chemistry, 2014, 86, 3712-3716.	3.2	42
119	Comparative analysis of several GMR strip sensor configurations for biological applications. Sensors and Actuators A: Physical, 2014, 216, 349-354.	2.0	14
120	9 T high magnetic field annealing effects on FeN bulk sample. Journal of Applied Physics, 2014, 115, 17A758.	1.1	9
121	Magnetoresistive performance and comparison of supermagnetic nanoparticles on giant magnetoresistive sensor-based detection system. Scientific Reports, 2014, 4, 5716.	1.6	80
122	Evaluation of Hyperthermia of Magnetic Nanoparticles by Dehydrating DNA. Scientific Reports, 2014, 4, 7216.	1.6	33
123	Immobilization of DNA on Fe nanoparticles and their hybridization to functionalized surface. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	2
124	Interaction of Domain Walls and Magnetic Nanoparticles in Giant Magnetoresistive Nanostrips for Biological Applications. IEEE Transactions on Magnetics, 2013, 49, 3414-3417.	1.2	6
125	Current-Induced Fast-Ordering of L1<formula formulatype="inline"><tex Notation="TeX">$_{0}$</tex></formula>-FePt Films With Small Grain Size. IEEE Transactions on Magnetics, 2013, 49, 3660-3662.	1.2	5
126	Composition- and Phase-Controlled High-Magnetic-Moment Fe$_{1 - {m x}}$Co$_{m x}$ Nanoparticles for Biomedical Applications. IEEE Transactions on Magnetics, 2013, 49, 197-200.	1.2	14

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127	Fabrication and Characterization of FePt Exchange Coupled Composite and Graded Bit Patterned Media. IEEE Transactions on Magnetics, 2013, 49, 707-712.	1.2	20
128	Surface Modification for Protein and DNA Immobilization onto GMR Biosensor. IEEE Transactions on Magnetics, 2013, 49, 296-299.	1.2	40
129	Measurement of Brownian and NÃ©el Relaxation of Magnetic Nanoparticles by a Mixing-Frequency Method. IEEE Transactions on Magnetics, 2013, 49, 227-230.	1.2	23
130	Fe3Si nanoparticles for alternating magnetic field heating. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	6
131	A Scaling Roadmap and Performance Evaluation of In-Plane and Perpendicular MTJ Based STT-MRAMs for High-Density Cache Memory. IEEE Journal of Solid-State Circuits, 2013, 48, 598-610.	3.5	286
132	Strain induced giant magnetism in epitaxial Fe16N2 thin film. Applied Physics Letters, 2013, 102, .	1.5	48
133	The effect of strain induced by Ag underlayer on saturation magnetization of partially ordered Fe16N2 thin films. Applied Physics Letters, 2013, 103, .	1.5	16
134	Magnetic logic and computation using magnetic tunnel junctions. , 2013, , .		2
135	Strain effect of multilayer FeN structure on GaAs substrate. Journal of Applied Physics, 2013, 113, 17E149.	1.1	12
136	Characterization of L10-FePt/Fe based exchange coupled composite bit pattern media. Journal of Applied Physics, 2012, 111, 07B914.	1.1	11
137	Spontaneously Formed FePt Graded Granular Media With a Large Gain Factor. IEEE Magnetics Letters, 2012, 3, 4500104-4500104.	0.6	4
138	High power and low critical current spin torque oscillation from a magnetic tunnel junction with a built-in hard axis polarizer. Applied Physics Letters, 2012, 100, .	1.5	10
139	Spin-Torque Driven Switching Probability Density Function Asymmetry. IEEE Transactions on Magnetics, 2012, 48, 3818-3820.	1.2	24
140	Measurement of Brownian Relaxation of Magnetic Nanoparticle by a Multi-Tone Mixing-Frequency Method. IEEE Transactions on Magnetics, 2012, 48, 3513-3516.	1.2	12
141	Fabrication of $hbox{Fe}_{16}hbox{N}_{2}$ Films by Sputtering Process and Experimental Investigation of Origin of Giant Saturation Magnetization in $hbox{Fe}_{16}hbox{N}_{2}$. IEEE Transactions on Magnetics, 2012, 48, 1710-1717.	1.2	75
142	A Three-Layer Competition-Based Giant Magnetoresistive Assay for Direct Quantification of Endoglin from Human Urine. Analytical Chemistry, 2011, 83, 2996-3002.	3.2	46
143	Quantitative analysis of interaction between domain walls and magnetic nanoparticles. Journal of Applied Physics, 2011, 109, 07D506.	1.1	4
144	Spin torque oscillation modes of a dual magnetic tunneling junction. Journal of Applied Physics, 2011, 109, .	1.1	1

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145	Magnetic Tunnel Junction Logic Architecture for Realization of Simultaneous Computation and Communication. IEEE Transactions on Magnetics, 2011, 47, 2970-2973.	1.2	24
146	High temperature annealing stability of magnetic properties in MgO-based perpendicular magnetic tunnel junction stacks with CoFeB polarizing layer. Journal of Applied Physics, 2011, 109, .	1.1	29
147	Perpendicular magnetic anisotropy and high spin-polarization ratio in epitaxial Fe-N thin films. Physical Review B, 2011, 84, .	1.1	72
148	Structural and magnetic properties of a core-shell type L10 FePt/Fe exchange coupled nanocomposite with tilted easy axis. Journal of Applied Physics, 2011, 109, 083907.	1.1	36
149	Fabrication of FePt type exchange coupled composite bit patterned media by block copolymer lithography. Journal of Applied Physics, 2011, 109, .	1.1	29
150	Chemical stability of highly (0001) textured Sm(CoCu)5 thin films with a thin Ta capping layer. Journal of Applied Physics, 2011, 109, 07B715.	1.1	5
151	N site ordering effect on partially ordered Fe16N2. Applied Physics Letters, 2011, 98, .	1.5	61
152	$L1_{0}$ FePt/Fe Exchange Coupled Composite Structure on MgO Substrates. IEEE Transactions on Magnetics, 2010, 46, 2345-2348.	1.2	22
153	Communication Between Magnetic Tunnel Junctions Using Spin-Polarized Current for Logic Applications. IEEE Transactions on Magnetics, 2010, 46, 2216-2219.	1.2	13
154	Spintronic logic gates for spintronic data using magnetic tunnel junctions. , 2010, , .		24
155	FePt Magnetic Nanoparticles and Their Assembly for Future Magnetic Media. Proceedings of the IEEE, 2008, 96, 1847-1863.	16.4	92
156	Design and Fabrication of Spin Torque Transfer Devices with Magnetic Nano-Current-Confined Structures for Lower Switching Current Density. , 2008, , .		0
157	Film Composition, Substrate Temperature, and Thickness Dependence of Sm(Co, Cu)$_{5}$/Ru Thin Films With Perpendicular Anisotropy. IEEE Transactions on Magnetics, 2008, 44, 3550-3553.	1.2	5
158	Exchange Coupling in Synthetic Antiferromagnetic Multilayers for Magnetic Write Head. IEEE Transactions on Magnetics, 2008, 44, 3621-3624.	1.2	1
159	Observation of Intermediate States in Magnetic Tunnel Junctions With Composite Free Layer. IEEE Transactions on Magnetics, 2008, 44, 2496-2499.	1.2	11
160	Fabrication and Characterization of Exchange Coupled Composite Media. IEEE Transactions on Magnetics, 2007, 43, 682-686.	1.2	67
161	Asymmetric Spin Torque Transfer in Nano GMR Device With Perpendicular Anisotropy. IEEE Transactions on Magnetics, 2007, 43, 2833-2835.	1.2	7
162	Cubic and Spherical High-Moment FeCo Nanoparticles With Narrow Size Distribution. IEEE Transactions on Magnetics, 2007, 43, 3340-3342.	1.2	19

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163	Magnetic Properties of Heterostructured Coâ€“Au Nanoparticles Direct-Synthesized From Gas Phase. IEEE Transactions on Magnetics, 2007, 43, 3109-3111.	1.2	16
164	Spin transfer in nanomagnetic devices with perpendicular anisotropy. Applied Physics Letters, 2006, 88, 172506.	1.5	253
165	Tilting for the top. Nature Materials, 2005, 4, 191-192.	13.3	94
166	Magneto-resistive read sensor with perpendicular magnetic anisotropy. IEEE Transactions on Magnetics, 2005, 41, 707-712.	1.2	14
167	Exchange coupled composite media for perpendicular magnetic recording. IEEE Transactions on Magnetics, 2005, 41, 3181-3186.	1.2	144
168	Spin transfer effect in magnetic tunnel junction with a nano-current-channel Layer in free layer. IEEE Transactions on Magnetics, 2005, 41, 2612-2614.	1.2	21
169	Spin transfer effect in magnetic tunnel junction with low resistance. , 2005, , .		0
170	Fabrication of current-induced magnetization switching devices using etch-back planarization process. Journal of Applied Physics, 2005, 97, 10C702.	1.1	10
171	New perpendicular media by engineering the thermal stability and writing capability separately. , 2005, , .		1
172	Fabrication of Core-shell Type FeCo-Au (Ag) High Moment Magnetic Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
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