

De-Lin Zhang

List of Publications by Year in descending order

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175
papers

5,756
citations

94269

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176
times ranked

6094
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature high spin-orbit torque due to quantum confinement in sputtered Bi ₂ Se ₃ films. <i>Nature Materials</i> , 2018, 17, 800-807.	13.3	344
2	Magnetic nanoparticles in nanomedicine: a review of recent advances. <i>Nanotechnology</i> , 2019, 30, 502003.	1.3	340
3	Field-free switching of a perpendicular magnetic tunnel junction through the interplay of spin-orbit and spin-transfer torques. <i>Nature Electronics</i> , 2018, 1, 582-588.	13.1	304
4	A Scaling Roadmap and Performance Evaluation of In-Plane and Perpendicular MTJ Based STT-MRAMs for High-Density Cache Memory. <i>IEEE Journal of Solid-State Circuits</i> , 2013, 48, 598-610.	3.5	286
5	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator Bi ₂ Se ₃ . <i>Nano Letters</i> , 2015, 15, 7126-7132.	4.5	257
6	Spin transfer in nanomagnetic devices with perpendicular anisotropy. <i>Applied Physics Letters</i> , 2006, 88, 172506.	1.5	253
7	Exchange coupled composite media for perpendicular magnetic recording. <i>IEEE Transactions on Magnetics</i> , 2005, 41, 3181-3186.	1.2	144
8	Giant Magnetoresistance-based Biosensor for Detection of Influenza A Virus. <i>Frontiers in Microbiology</i> , 2016, 7, 400.	1.5	132
9	Nanotechnology: Review of concepts and potential application of sensing platforms in food safety. <i>Food Microbiology</i> , 2018, 75, 47-54.	2.1	131
10	Portable GMR Handheld Platform for the Detection of Influenza A Virus. <i>ACS Sensors</i> , 2017, 2, 1594-1601.	4.0	96
11	Tilting for the top. <i>Nature Materials</i> , 2005, 4, 191-192.	13.3	94
12	FePt Magnetic Nanoparticles and Their Assembly for Future Magnetic Media. <i>Proceedings of the IEEE</i> , 2008, 96, 1847-1863.	16.4	92
13	Unidirectional spin-Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. <i>Nature Communications</i> , 2018, 9, 111.	5.8	87
14	Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus. <i>Advanced Electronic Materials</i> , 2016, 2, 1600040.	2.6	85
15	Magnetic-Nanosensor-Based Virus and Pathogen Detection Strategies before and during COVID-19. <i>ACS Applied Nano Materials</i> , 2020, 3, 9560-9580.	2.4	81
16	Magnetoresistive performance and comparison of supermagnetic nanoparticles on giant magnetoresistive sensor-based detection system. <i>Scientific Reports</i> , 2014, 4, 5716.	1.6	80
17	Magnetic Particle Spectroscopy: A Short Review of Applications Using Magnetic Nanoparticles. <i>ACS Applied Nano Materials</i> , 2020, 3, 4972-4989.	2.4	78
18	Fabrication of Fe ₁₆ N ₂ Films by Sputtering Process and Experimental Investigation of Origin of Giant Saturation Magnetization in Fe ₁₆ N ₂ . <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1710-1717.	1.2	75

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19	A spintronics full adder for magnetic CPU. IEEE Electron Device Letters, 2005, 26, 360-362.	2.2	74
20	Perpendicular magnetic anisotropy and high spin-polarization ratio in epitaxial Fe-N thin films. Physical Review B, 2011, 84, .	1.1	72
21	High Performance MgO-barrier Magnetic Tunnel Junctions for Flexible and Wearable Spintronic Applications. Scientific Reports, 2017, 7, 42001.	1.6	70
22	In-Memory Processing on the Spintronic CRAM: From Hardware Design to Application Mapping. IEEE Transactions on Computers, 2019, 68, 1159-1173.	2.4	69
23	Giant magnetoresistive-based biosensing probe station system for multiplex protein assays. Biosensors and Bioelectronics, 2015, 70, 61-68.	5.3	68
24	Fabrication and Characterization of Exchange Coupled Composite Media. IEEE Transactions on Magnetics, 2007, 43, 682-686.	1.2	67
25	N site ordering effect on partially ordered Fe ₁₆ N ₂ . Applied Physics Letters, 2011, 98, .	1.5	61
26	Development of a multiplexed giant magnetoresistive biosensor array prototype to quantify ovarian cancer biomarkers. Biosensors and Bioelectronics, 2019, 126, 301-307.	5.3	61
27	Magnetic Particle Spectroscopy for Detection of Influenza A Virus Subtype H1N1. ACS Applied Materials & Interfaces, 2020, 12, 13686-13697.	4.0	55
28	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
29	Advances in Magnetoresistive Biosensors. Micromachines, 2020, 11, 34.	1.4	53
30	Synthesis of Fe ₁₆ N ₂ compound Free-Standing Foils with 20 MGOe Magnetic Energy Product by Nitrogen Ion-Implantation. Scientific Reports, 2016, 6, 25436.	1.6	50
31	Low Gilbert Damping Constant in Perpendicularly Magnetized W/CoFeB/MgO Films with High Thermal Stability. Scientific Reports, 2018, 8, 13395.	1.6	50
32	Efficient In-Memory Processing Using Spintronics. IEEE Computer Architecture Letters, 2018, 17, 42-46.	1.0	49
33	Strain induced giant magnetism in epitaxial Fe ₁₆ N ₂ thin film. Applied Physics Letters, 2013, 102, .	1.5	48
34	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
35	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. Nature Nanotechnology, 2021, 16, 981-988.	15.6	45
36	Magnetic Detection of Mercuric Ion Using Giant Magnetoresistance-Based Biosensing System. Analytical Chemistry, 2014, 86, 3712-3716.	3.2	42

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37	Surface Modification for Protein and DNA Immobilization onto GMR Biosensor. IEEE Transactions on Magnetics, 2013, 49, 296-299.	1.2	40
38	Tunable charge to spin conversion in strontium iridate thin films. Physical Review Materials, 2019, 3, .	0.9	37
39	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
40	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
41	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
42	Evaluation of Hyperthermia of Magnetic Nanoparticles by Dehydrating DNA. Scientific Reports, 2014, 4, 7216.	1.6	33
43	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
44	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
45	Giant Magnetoresistance Biosensors in Biomedical Applications. ACS Applied Materials & Interfaces, 2022, 14, 9945-9969.	4.0	31
46	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
47	Fabrication of FePt type exchange coupled composite bit patterned media by block copolymer lithography. Journal of Applied Physics, 2011, 109, .	1.1	29
48	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
49	Preparation of an $\text{Fe}_{16}\text{N}_{2}$ Magnet via a Ball Milling and Shock Compaction Approach. Advanced Engineering Materials, 2016, 18, 1009-1016.	1.6	29
50	Demonstration of Ru as the 4th ferromagnetic element at room temperature. Nature Communications, 2018, 9, 2058.	5.8	29
51	External-Field-Free Spin Hall Switching of Perpendicular Magnetic Nanopillar with a Dipole-Coupled Composite Structure. Advanced Electronic Materials, 2020, 6, 1901368.	2.6	29
52	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. Physical Review B, 2020, 101, .	1.1	27
53	Characterizing Physical Properties of Superparamagnetic Nanoparticles in Liquid Phase Using Brownian Relaxation. Small, 2017, 13, 1604135.	5.2	26
54	Using Spin-Hall MTJs to Build an Energy-Efficient In-memory Computation Platform. , 2019, , .		26

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55	SkyLogic's A Proposal for a Skyrmion-Based Logic Device. IEEE Transactions on Electron Devices, 2019, 66, 1990-1996.	1.6	26
56	High-moment magnetic nanoparticles. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	25
57	Spintronic logic gates for spintronic data using magnetic tunnel junctions. , 2010, , .		24
58	Magnetic Tunnel Junction Logic Architecture for Realization of Simultaneous Computation and Communication. IEEE Transactions on Magnetics, 2011, 47, 2970-2973.	1.2	24
59	Spin-Torque Driven Switching Probability Density Function Asymmetry. IEEE Transactions on Magnetics, 2012, 48, 3818-3820.	1.2	24
60	Measurement of Brownian and Néel Relaxation of Magnetic Nanoparticles by a Mixing-Frequency Method. IEEE Transactions on Magnetics, 2013, 49, 227-230.	1.2	23
61	Synthetic Antiferromagnet through an fcc Ru Spacer Utilized for Perpendicular Magnetic Tunnel Junctions. Physical Review Applied, 2018, 9, .	1.5	23
62	FePt/Fe Exchange Coupled Composite Structure on MgO Substrates. IEEE Transactions on Magnetics, 2010, 46, 2345-2348.	1.2	22
63	CoMET: Composite-Input Magnetoelectric- Based Logic Technology. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2017, 3, 27-36.	1.1	22
64	Picosecond Fresnel transmission electron microscopy. Applied Physics Letters, 2017, 110, 222404.	1.5	22
65	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
66	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
67	Spin pumping and large field-like torque at room temperature in sputtered amorphous WTe ₂ films. APL Materials, 2020, 8, .	2.2	21
68	Investigation of Commercial Iron Oxide Nanoparticles: Structural and Magnetic Property Characterization. ACS Omega, 2021, 6, 6274-6283.	1.6	21
69	Fabrication and Characterization of FePt Exchange Coupled Composite and Graded Bit Patterned Media. IEEE Transactions on Magnetics, 2013, 49, 707-712.	1.2	20
70	DFT calculation and experimental investigation of Mn doping effect in Fe ₁₆ N ₂ . AIP Advances, 2016, 6, .	0.6	20
71	Synthesis of $\hat{I} \pm \hat{a} \hat{\epsilon}^2$ -Fe ₁₆ N ₂ Anisotropic Magnet by t. Physical Review Applied, 2016. 6, .	1.5	20
72	Synthesis of $\hat{I} \pm \hat{a} \hat{\epsilon}^2$ -Fe ₁₆ N ₂ ribbons with a porous structure. Nanoscale Advances, 2019, 1, 1337-1342.	2.2	20

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73	Cubic and Spherical High-Moment FeCo Nanoparticles With Narrow Size Distribution. IEEE Transactions on Magnetics, 2007, 43, 3340-3342.	1.2	19
74	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
75	High spin polarization in epitaxial Fe ₄ N thin films using Cr and Ag as buffer layers. Applied Physics Letters, 2018, 112, 162407.	1.5	19
76	Biocompatible Fe@Si Nanoparticles with Adjustable Self-Regulation of Temperature for Medical Applications. ACS Applied Materials & Interfaces, 2015, 7, 12649-12654.	4.0	18
77	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
78	A Portable Magnetic Particle Spectrometer for Future Rapid and Wash-Free Bioassays. ACS Applied Materials & Interfaces, 2021, 13, 7966-7976.	4.0	17
79	Magnetic Properties of Heterostructured Co@Au Nanoparticles Direct-Synthesized From Gas Phase. IEEE Transactions on Magnetics, 2007, 43, 3109-3111.	1.2	16
80	The effect of strain induced by Ag underlayer on saturation magnetization of partially ordered Fe ₁₆ N ₂ thin films. Applied Physics Letters, 2013, 103, .	1.5	16
81	Weak antilocalization and low-temperature characterization of sputtered polycrystalline bismuth selenide. Applied Physics Letters, 2018, 112, .	1.5	16
82	High-frequency magnetoacoustic resonance through strain-spin coupling in perpendicular magnetic multilayers. Science Advances, 2020, 6, .	4.7	16
83	Giant Anomalous Hall Effect due to Double-Degenerate Quasiflat Bands. Physical Review Letters, 2021, 126, 106601.	2.9	16
84	Advanced spintronic memory and logic for non-volatile processors. , 2017, , .		15
85	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L1-FePd perpendicular magnetic tunnel junctions. Applied Physics Letters, 2018, 112, .	1.5	15
86	Voltage-Controlled Antiferromagnetism in Magnetic Tunnel Junctions. Physical Review Letters, 2020, 124, 187701.	2.9	15
87	Bipolar Electric-Field Switching of Perpendicular Magnetic Tunnel Junctions through Voltage-Controlled Exchange Coupling. Nano Letters, 2022, 22, 622-629.	4.5	15
88	Magneto-resistive read sensor with perpendicular magnetic anisotropy. IEEE Transactions on Magnetics, 2005, 41, 707-712.	1.2	14
89	Composition- and Phase-Controlled High-Magnetic-Moment Fe _{1-x} Co _x Nanoparticles for Biomedical Applications. IEEE Transactions on Magnetics, 2013, 49, 197-200.	1.2	14
90	Surface modification and bioconjugation of FeCo magnetic nanoparticles with proteins. Colloids and Surfaces B: Biointerfaces, 2014, 117, 449-456.	2.5	14

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91	Comparative analysis of several GMR strip sensor configurations for biological applications. <i>Sensors and Actuators A: Physical</i> , 2014, 216, 349-354.	2.0	14
92	Irregularly Shaped Iron Nitride Nanoparticles as a Potential Candidate for Biomedical Applications: From Synthesis to Characterization. <i>ACS Omega</i> , 2020, 5, 11756-11767.	1.6	14
93	Communication Between Magnetic Tunnel Junctions Using Spin-Polarized Current for Logic Applications. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2216-2219.	1.2	13
94	FeN foils by nitrogen ion-implantation. <i>Journal of Applied Physics</i> , 2014, 115, 17A753.	1.1	13
95	Large-area GMR bio-sensors based on reverse nucleation switching mechanism. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 484-489.	1.0	13
96	Low Gilbert damping and high thermal stability of Ru-seeded L1-phase FePd perpendicular magnetic thin films at elevated temperatures. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	13
97	Measurement of Brownian Relaxation of Magnetic Nanoparticle by a Multi-Tone Mixing-Frequency Method. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 3513-3516.	1.2	12
98	Strain effect of multilayer FeN structure on GaAs substrate. <i>Journal of Applied Physics</i> , 2013, 113, 17E149.	1.1	12
99	Scaling analysis of in-plane and perpendicular anisotropy magnetic tunnel junctions using a physics-based model. , 2014, , .		12
100	Computing-in-memory with spintronics. , 2018, , .		12
101	Quantitative analysis and optimization of magnetization precession initiated by ultrafast optical pulses. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	12
102	Heavyâ€Metalâ€Free, Lowâ€Damping, and Nonâ€Interface Perpendicular Fe 16 N 2 Thin Film and Magnetoresistance Device. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900089.	1.2	12
103	Iron nanoparticles with tunable tetragonal structure and magnetic properties. <i>Physical Review Materials</i> , 2018, 2, .	0.9	12
104	A review on magnetic and spintronic neurostimulation: challenges and prospects. <i>Nanotechnology</i> , 2022, 33, 182004.	1.3	12
105	Observation of Intermediate States in Magnetic Tunnel Junctions With Composite Free Layer. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2496-2499.	1.2	11
106	Characterization of L10-FePt/Fe based exchange coupled composite bit pattern media. <i>Journal of Applied Physics</i> , 2012, 111, 07B914.	1.1	11
107	Fabrication of current-induced magnetization switching devices using etch-back planarization process. <i>Journal of Applied Physics</i> , 2005, 97, 10C702.	1.1	10
108	High power and low critical current spin torque oscillation from a magnetic tunnel junction with a built-in hard axis polarizer. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	10

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109	Thermal stability of partially ordered Fe16N2 film on non-magnetic Ag under layer. Journal of Applied Physics, 2014, 115, .	1.1	10
110	Epitaxial Fe16N2 thin film on nonmagnetic seed layer. Applied Physics Letters, 2018, 112, .	1.5	10
111	Magnetic structure of N_{16} determined by polarized neutron diffraction on thin-film samples. Physical Review B, 2020, 102, .	1.1	10
112	Large-scale interlayer rotations and Te grain boundaries in Mo_2W_2C thin films. Physical Review Materials, 2020, 4, .	1.1	10
113	9 T high magnetic field annealing effects on FeN bulk sample. Journal of Applied Physics, 2014, 115, 17A758.	1.1	9
114	Damping constant measurement and inverse giant magnetoresistance in spintronic devices with Fe4N. AIP Advances, 2017, 7, .	0.6	9
115	High saturation magnetization and low magnetic anisotropy Fe-CN martensite thin film. Applied Physics Letters, 2019, 114, .	1.5	9
116	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
117	Experimental demonstration of integrated magneto-electric and spin-orbit building blocks implementing energy-efficient logic. , 2019, .		8
118	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
119	Buffer layer engineering of L1 FePd thin films with large perpendicular magnetic anisotropy. AIP Advances, 2021, 11, .	0.6	8
120	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
121	Giant magnetoresistance, Fermi-surface topology, Shoenberg effect, and vanishing quantum oscillations in the type-II Dirac semimetal candidates $MoSi_2$ and WSi_2 . Physical Review B, 2022, 105, .	1.1	8
122	Asymmetric Spin Torque Transfer in Nano GMR Device With Perpendicular Anisotropy. IEEE Transactions on Magnetics, 2007, 43, 2833-2835.	1.2	7
123	A fast magnetoelectric device based on current-driven domain wall propagation. , 2016, .		7
124	Magnetization Response Spectroscopy of Superparamagnetic Nanoparticles Under Mixing Frequency Fields. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	7
125	Spin-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
126	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

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127	Large fieldlike torque in amorphous Ru ₂ Sn ₃ originated from the intrinsic spin Hall effect. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
128	Ferromagnetic resonance and magnetization switching characteristics of perpendicular magnetic tunnel junctions with synthetic antiferromagnetic free layers. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
129	Strength-frequency curve for micromagnetic neurostimulation through excitatory postsynaptic potentials (EPSPs) on rat hippocampal neurons and numerical modeling of magnetic microcoil (1/4coil). <i>Journal of Neural Engineering</i> , 2022, 19, 016018.	1.8	7
130	Interaction of Domain Walls and Magnetic Nanoparticles in Giant Magnetoresistive Nanostrips for Biological Applications. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3414-3417.	1.2	6
131	Fe ₃ Si nanoparticles for alternating magnetic field heating. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	6
132	<i>In Vitro</i> Viscosity Measurement on Superparamagnetic Nanoparticle Suspensions. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	6
133	Effect of capping layer on formation and magnetic properties of MnBi thin films. <i>Journal of Applied Physics</i> , 2017, 122, 213904.	1.1	6
134	Magnetocrystalline anisotropy of Fe_{16}N_2 under various DFT approaches. <i>AIP Advances</i> , 2021, 11, .	0.6	6
135	Enhancement of voltage controlled magnetic anisotropy (VCMA) through electron depletion. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	6
136	Film Composition, Substrate Temperature, and Thickness Dependence of Sm(Co, Cu) ₅ /Ru Thin Films With Perpendicular Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3550-3553.	1.2	5
137	Chemical stability of highly (0001) textured Sm(CoCu) ₅ thin films with a thin Ta capping layer. <i>Journal of Applied Physics</i> , 2011, 109, 07B715.	1.1	5
138	Current-Induced Fast-Ordering of L1 ₀ -FePt Films With Small Grain Size. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 3660-3662.	1.2	5
139	Design and fabrication of integrated magnetic field sensing system with enhanced sensitivity. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 511, 166728.	1.0	5
140	Quantitative analysis of interaction between domain walls and magnetic nanoparticles. <i>Journal of Applied Physics</i> , 2011, 109, 07D506.	1.1	4
141	Spontaneously Formed FePt Graded Granular Media With a Large Gain Factor. <i>IEEE Magnetics Letters</i> , 2012, 3, 4500104-4500104.	0.6	4
142	Fast spintronic thermal sensor for IC power driver cooling down. , 2016, , .		4
143	Black Phosphorus: Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus (<i>Adv. Electron. Mater.</i> 5/2016). <i>Advanced Electronic Materials</i> , 2016, 2, .	2.6	4
144	Deposition and spin polarization study of Fe ₄ N thin films with (111) orientation. <i>AIP Advances</i> , 2017, 7, 095001.	0.6	4

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145	Incorporation of Phosphorus Impurities in a Silicon Nanowire Transistor with a Diameter of 5 nm. <i>Micromachines</i> , 2019, 10, 127.	1.4	4
146	Surface acoustic wave induced modulation of tunneling magnetoresistance in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	3
147	Sub-ns Switching and Cryogenic-Temperature Performance of Mo-Based Perpendicular Magnetic Tunnel Junctions. <i>IEEE Electron Device Letters</i> , 2022, 43, 1215-1218.	2.2	3
148	Ultralow Current Switching of Synthetic Antiferromagnetic Magnetic Tunnel Junctions Via Electric Field Assisted by Spin Orbit Torque. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	3
149	Immobilization of DNA on Fe nanoparticles and their hybridization to functionalized surface. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	2
150	Magnetic logic and computation using magnetic tunnel junctions. , 2013, , .		2
151	Laser-initiated magnetization reversal and correlated morphological effects visualized with <i>in situ</i> Fresnel transmission electron microscopy. <i>Physical Review B</i> , 2016, 94, .	1.1	2
152	Non-Local Lateral Spin-Valve Devices Fabricated With a Versatile Top-Down Fabrication Process. <i>IEEE Magnetics Letters</i> , 2016, 7, 1-4.	0.6	2
153	Mapping strain with magnetics. <i>Nature Electronics</i> , 2018, 1, 96-97.	13.1	2
154	An Energy Efficient Non-Volatile Flip-Flop based on CoMET Technology. , 2019, , .		2
155	Effects of mobile oxygen ions in top-gated synthetic antiferromagnet structure. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
156	Effect of Oblique Versus Normal Deposition on the Properties of Perpendicularly Magnetized FePd Thin Films. <i>IEEE Magnetics Letters</i> , 2020, 11, 1-5.	0.6	2
157	Charge trapping analysis in sputtered $\text{Bi}_{1-x}\text{Se}_x$ based accumulation-mode FETs. <i>AIP Advances</i> , 2020, 10, 015315.	0.6	2
158	CRAM-Seq: Accelerating RNA-Seq Abundance Quantification Using Computational RAM. <i>IEEE Transactions on Emerging Topics in Computing</i> , 2022, 10, 2055-2071.	3.2	2
159	New perpendicular media by engineering the thermal stability and writing capability separately. , 2005, , .		1
160	Exchange Coupling in Synthetic Antiferromagnetic Multilayers for Magnetic Write Head. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 3621-3624.	1.2	1
161	Spin torque oscillation modes of a dual magnetic tunneling junction. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	1
162	Microstructure Analysis of Melt Spun FeN foils with Fe_{16}N_2 Phase. <i>MRS Advances</i> , 2016, 1, 2373-2378.	0.5	1

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163	High Ms Fe ₁₆ N ₂ thin film with Ag under layer on GaAs substrate. AIP Advances, 2016, 6, .	0.6	1
164	Magnetoelectric device feasibility demonstration " Voltage control of exchange bias in perpendicular Cr ₂ O ₃ Hall bar device. , 2016, , .		1
165	Molecular dynamic simulation study of plasma etching L1 FePt media in embedded mask patterning (EMP) process. AIP Advances, 2017, 7, .	0.6	1
166	Theory of Quantum Computation With Magnetic Clusters. IEEE Transactions on Quantum Engineering, 2020, 1, 1-8.	2.9	1
167	N site ordering effect on partially ordered Fe ₁₆ N ₂ . , 0, .		1
168	Spin transfer effect in magnetic tunnel junction with low resistance. , 2005, , .		0
169	Fabrication of Core-shell Type FeCo-Au (Ag) High Moment Magnetic Nanoparticles. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
170	Fabrication of core-shell type magnetic nanoparticles by a nanocluster deposition technique. , 2005, , .		0
171	Design and Fabrication of Spin Torque Transfer Devices with Magnetic Nano-Current-Confined Structures for Lower Switching Current Density. , 2008, , .		0
172	The effect of electric field induced magnetic anisotropy in ferromagnetic resonance in magnetic tunnel junctions. , 2014, , .		0
173	FORC-study of magnetization reversal of L10-FePt based exchange coupled composite films. AIP Advances, 2017, 7, 056510.	0.6	0
174	Characterization: Characterizing Physical Properties of Superparamagnetic Nanoparticles in Liquid Phase Using Brownian Relaxation (Small 22/2017). Small, 2017, 13, .	5.2	0
175	Charge trapping analysis in sputtered Bi _x Se _{1-x} based accumulation-mode FETs. II. Gate capacitance characteristics. AIP Advances, 2021, 11, 015221.	0.6	0