

# De-Lin Zhang

## List of Publications by Citations

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160  
papers

4,058  
citations

33  
h-index

58  
g-index

176  
ext. papers

4,870  
ext. citations

4.8  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
160	Spin transfer in nanomagnetic devices with perpendicular anisotropy. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 172506	3.4	232
159	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> , <b>2013</b> , 48, 598-610	5.5	223
158	Room-temperature high spin-orbit torque due to quantum confinement in sputtered BiSe films. <i>Nature Materials</i> , <b>2018</b> , 17, 800-807	27	214
157	Giant Spin Pumping and Inverse Spin Hall Effect in the Presence of Surface and Bulk Spin-Orbit Coupling of Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> . <i>Nano Letters</i> , <b>2015</b> , 15, 7126-32	11.5	200
156	Field-free switching of a perpendicular magnetic tunnel junction through the interplay of spin-orbit and spin-transfer torques. <i>Nature Electronics</i> , <b>2018</b> , 1, 582-588	28.4	167
155	Magnetic nanoparticles in nanomedicine: a review of recent advances. <i>Nanotechnology</i> , <b>2019</b> , 30, 502003	3.4	164
154	Exchange coupled composite media for perpendicular magnetic recording. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 3181-3186	2	134
153	Giant Magnetoresistance-based Biosensor for Detection of Influenza A Virus. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 400	5.7	98
152	Nanotechnology: Review of concepts and potential application of sensing platforms in food safety. <i>Food Microbiology</i> , <b>2018</b> , 75, 47-54	6	93
151	FePt Magnetic Nanoparticles and Their Assembly for Future Magnetic Media. <i>Proceedings of the IEEE</i> , <b>2008</b> , 96, 1847-1863	14.3	83
150	Portable GMR Handheld Platform for the Detection of Influenza A Virus. <i>ACS Sensors</i> , <b>2017</b> , 2, 1594-1601	1.2	71
149	Fabrication of Fe <sub>16</sub> N <sub>2</sub> Films by Sputtering Process and Experimental Investigation of Origin of Giant Saturation Magnetization in Fe <sub>16</sub> N <sub>2</sub> . <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 1710-1717	2	67
148	Perpendicular magnetic anisotropy and high spin-polarization ratio in epitaxial Fe-N thin films. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	65
147	Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600040	6.4	64
146	Magnetoresistive performance and comparison of supermagnetic nanoparticles on giant magnetoresistive sensor-based detection system. <i>Scientific Reports</i> , <b>2014</b> , 4, 5716	4.9	63
145	Fabrication and Characterization of Exchange Coupled Composite Media. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 682-686	2	62
144	A spintronics full adder for magnetic CPU. <i>IEEE Electron Device Letters</i> , <b>2005</b> , 26, 360-362	4.4	58

143	Giant magnetoresistive-based biosensing probe station system for multiplex protein assays. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 70, 61-8	11.8	57
142	Unidirectional spin-Hall and Rashba-Edelstein magnetoresistance in topological insulator-ferromagnet layer heterostructures. <i>Nature Communications</i> , <b>2018</b> , 9, 111	17.4	55
141	High Performance MgO-barrier Magnetic Tunnel Junctions for Flexible and Wearable Spintronic Applications. <i>Scientific Reports</i> , <b>2017</b> , 7, 42001	4.9	53
140	N site ordering effect on partially ordered Fe <sub>16</sub> N <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2011</b> , 98, 092506	3.4	51
139	A three-layer competition-based giant magnetoresistive assay for direct quantification of endoglin from human urine. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 2996-3002	7.8	45
138	Synthesis of Fe <sub>16</sub> N <sub>2</sub> compound Free-Standing Foils with 20 MGOe Magnetic Energy Product by Nitrogen Ion-Implantation. <i>Scientific Reports</i> , <b>2016</b> , 6, 25436	4.9	42
137	Development of a multiplexed giant magnetoresistive biosensor array prototype to quantify ovarian cancer biomarkers. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 301-307	11.8	41
136	In-Memory Processing on the Spintronic CRAM: From Hardware Design to Application Mapping. <i>IEEE Transactions on Computers</i> , <b>2019</b> , 68, 1159-1173	2.5	40
135	Strain induced giant magnetism in epitaxial Fe <sub>16</sub> N <sub>2</sub> thin film. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 072411	3.4	40
134	Magnetic detection of mercuric ion using giant magnetoresistance-based biosensing system. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 3712-6	7.8	38
133	Magnetic-Nanosensor-Based Virus and Pathogen Detection Strategies before and during COVID-19. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 9560-9580	5.6	38
132	Magnetic Particle Spectroscopy: A Short Review of Applications Using Magnetic Nanoparticles. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 4972-4989	5.6	36
131	Detection of Influenza a Virus in Swine Nasal Swab Samples With a Wash-Free Magnetic Bioassay and a Handheld Giant Magnetoresistance Sensing System. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1077	5.7	34
130	Surface Modification for Protein and DNA Immobilization onto GMR Biosensor. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 296-299	2	34
129	Efficient In-Memory Processing Using Spintronics. <i>IEEE Computer Architecture Letters</i> , <b>2018</b> , 17, 42-46	1.8	33
128	Low Gilbert Damping Constant in Perpendicularly Magnetized W/CoFeB/MgO Films with High Thermal Stability. <i>Scientific Reports</i> , <b>2018</b> , 8, 13395	4.9	33
127	Magnetic Particle Spectroscopy for Detection of Influenza A Virus Subtype H1N1. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13686-13697	9.5	32
126	Structural and magnetic properties of a core-shell type L10 FePt/Fe exchange coupled nanocomposite with tilted easy axis. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 083907	2.5	32

125	A Comparative Study Between Spin-Transfer-Torque and Spin-Hall-Effect Switching Mechanisms in PMTJ Using SPICE. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , <b>2017</b> , 3, 74-82	2.4	28
124	Field-free spin-orbit torque switching of composite perpendicular CoFeB/Gd/CoFeB layers utilized for three-terminal magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 012402	3.4	27
123	High temperature annealing stability of magnetic properties in MgO-based perpendicular magnetic tunnel junction stacks with CoFeB polarizing layer. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07C709	2.5	27
122	Fabrication of FePt type exchange coupled composite bit patterned media by block copolymer lithography. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B754	2.5	27
121	Advances in Magnetoresistive Biosensors. <i>Micromachines</i> , <b>2019</b> , 11,	3.3	26
120	Evaluation of hyperthermia of magnetic nanoparticles by dehydrating DNA. <i>Scientific Reports</i> , <b>2014</b> , 4, 7216	4.9	25
119	Time-Resolved Magneto-Optical Kerr Effect of Magnetic Thin Films for Ultrafast Thermal Characterization. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2328-32	6.4	25
118	Preparation of an $\text{Fe}_{16}\text{N}_2$ Magnet via a Ball Milling and Shock Compaction Approach. <i>Advanced Engineering Materials</i> , <b>2016</b> , 18, 1009-1016	3.5	25
117	Characterizing Physical Properties of Superparamagnetic Nanoparticles in Liquid Phase Using Brownian Relaxation. <i>Small</i> , <b>2017</b> , 13, 1604135	11	23
116	Spin-Torque Driven Switching Probability Density Function Asymmetry. <i>IEEE Transactions on Magnetism</i> , <b>2012</b> , 48, 3818-3820	2	22
115	Measurement of Brownian and Néel Relaxation of Magnetic Nanoparticles by a Mixing-Frequency Method. <i>IEEE Transactions on Magnetism</i> , <b>2013</b> , 49, 227-230	2	21
114	$\text{FePt/Fe}$ Exchange Coupled Composite Structure on MgO Substrates. <i>IEEE Transactions on Magnetism</i> , <b>2010</b> , 46, 2345-2348	2	21
113	Fabrication and Characterization of FePt Exchange Coupled Composite and Graded Bit Patterned Media. <i>IEEE Transactions on Magnetism</i> , <b>2013</b> , 49, 707-712	2	19
112	CoMET: Composite-Input Magnetoelectric- Based Logic Technology. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , <b>2017</b> , 3, 27-36	2.4	18
111	High-moment magnetic nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	18
110	Observation of High Spin-to-Charge Conversion by Sputtered Bismuth Selenide Thin Films at Room Temperature. <i>Nano Letters</i> , <b>2019</b> , 19, 4836-4844	11.5	18
109	Using Spin-Hall MTJs to Build an Energy-Efficient In-memory Computation Platform <b>2019</b> ,		17
108	SkyLogic <sup>®</sup> Proposal for a Skyrmion-Based Logic Device. <i>IEEE Transactions on Electron Devices</i> , <b>2019</b> , 66, 1990-1996	2.9	17

107	Picosecond Fresnel transmission electron microscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 222404	3.4	17
106	Biocompatible Fe-Si Nanoparticles with Adjustable Self-Regulation of Temperature for Medical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12649-54	9.5	17
105	Spintronic logic gates for spintronic data using magnetic tunnel junctions <b>2010</b> ,		17
104	Cubic and Spherical High-Moment FeCo Nanoparticles With Narrow Size Distribution. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 3340-3342	2	17
103	Spin transfer effect in magnetic tunnel junction with a nano-current-channel Layer in free layer. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 2612-2614	2	17
102	Tunable charge to spin conversion in strontium iridate thin films. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	17
101	DFT calculation and experimental investigation of Mn doping effect in Fe <sub>16</sub> N <sub>2</sub> . <i>AIP Advances</i> , <b>2016</b> , 6, 056007	1.5	17
100	Synthesis of Fe <sub>16</sub> N <sub>2</sub> Compound Anisotropic Magnet by the Strained-Wire Method. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	16
99	Magnetic Tunnel Junction Logic Architecture for Realization of Simultaneous Computation and Communication. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2970-2973	2	16
98	Demonstration of Ru as the 4th ferromagnetic element at room temperature. <i>Nature Communications</i> , <b>2018</b> , 9, 2058	17.4	16
97	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 981-988	28.7	16
96	Localized detection of reversal nucleation generated by high moment magnetic nanoparticles using a large-area magnetic sensor. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 123901	2.5	15
95	Magnetic Weyl semimetals with diamond structure realized in spinel compounds. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	15
94	External-Field-Free Spin Hall Switching of Perpendicular Magnetic Nanopillar with a Dipole-Coupled Composite Structure. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1901368	6.4	15
93	Room-temperature spin-to-charge conversion in sputtered bismuth selenide thin films via spin pumping from yttrium iron garnet. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 102401	3.4	14
92	High spin polarization in epitaxial Fe <sub>4</sub> N thin films using Cr and Ag as buffer layers. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 162407	3.4	14
91	The effect of strain induced by Ag underlayer on saturation magnetization of partially ordered Fe <sub>16</sub> N <sub>2</sub> thin films. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 242412	3.4	14
90	Synthesis of Fe-Fe <sub>16</sub> N <sub>2</sub> ribbons with a porous structure. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1337-1342	5.1	13

89	Magnetic Properties of Heterostructured Co/Au Nanoparticles Direct-Synthesized From Gas Phase. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 3109-3111	2	13
88	Magneto-resistive read sensor with perpendicular magnetic anisotropy. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 707-712	2	13
87	Weak antilocalization and low-temperature characterization of sputtered polycrystalline bismuth selenide. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 122402	3-4	12
86	Composition- and Phase-Controlled High-Magnetic-Moment Fe <sub>1-x</sub> Co <sub>x</sub> Nanoparticles for Biomedical Applications. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 197-200	2	12
85	Communication Between Magnetic Tunnel Junctions Using Spin-Polarized Current for Logic Applications. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2216-2219	2	12
84	L10 FePd Synthetic Antiferromagnet through an fcc Ru Spacer Utilized for Perpendicular Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , <b>2018</b> , 9,	4-3	11
83	Surface modification and bioconjugation of FeCo magnetic nanoparticles with proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 117, 449-56	6	11
82	Comparative analysis of several GMR strip sensor configurations for biological applications. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 216, 349-354	3-9	11
81	FeN foils by nitrogen ion-implantation. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A753	2-5	11
80	Measurement of Brownian Relaxation of Magnetic Nanoparticle by a Multi-Tone Mixing-Frequency Method. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 3513-3516	2	11
79	Strain effect of multilayer FeN structure on GaAs substrate. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17E149.5	11	
78	Iron nanoparticles with tunable tetragonal structure and magnetic properties. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3-2	11
77	Advanced spintronic memory and logic for non-volatile processors <b>2017</b> ,		10
76	Heavy-Metal-Free, Low-Damping, and Non-Interface Perpendicular Fe <sub>16</sub> N <sub>2</sub> Thin Film and Magnetoresistance Device. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1900089	2-5	10
75	Spin pumping and large field-like torque at room temperature in sputtered amorphous WTe <sub>2</sub> films. <i>APL Materials</i> , <b>2020</b> , 8, 041102	5-7	10
74	Enhancement of tunneling magnetoresistance by inserting a diffusion barrier in L10-FePd perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 152401	3-4	10
73	Scaling analysis of in-plane and perpendicular anisotropy magnetic tunnel junctions using a physics-based model <b>2014</b> ,		10
72	Characterization of L10-FePt/Fe based exchange coupled composite bit pattern media. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B914	2-5	10

71	High-frequency magnetoacoustic resonance through strain-spin coupling in perpendicular magnetic multilayers. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	10
70	Large-area GMR bio-sensors based on reverse nucleation switching mechanism. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 473, 484-489	2.8	10
69	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. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 44136-44146	9.5	10
68	9 T high magnetic field annealing effects on FeN bulk sample. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A758	7.5	9
67	Thermal stability of partially ordered Fe <sub>16</sub> N <sub>2</sub> film on non-magnetic Ag under layer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A767	2.5	9
66	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> , <b>2012</b> , 100, 032405	3.4	9
65	Irregularly Shaped Iron Nitride Nanoparticles as a Potential Candidate for Biomedical Applications: From Synthesis to Characterization. <i>ACS Omega</i> , <b>2020</b> , 5, 11756-11767	3.9	8
64	Damping constant measurement and inverse giant magnetoresistance in spintronic devices with Fe <sub>4</sub> N. <i>AIP Advances</i> , <b>2017</b> , 7, 125303	1.5	8
63	Fabrication of current-induced magnetization switching devices using etch-back planarization process. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10C702	2.5	8
62	Large-scale interlayer rotations and Te grain boundaries in (Bi,Sb) <sub>2</sub> Te <sub>3</sub> thin films. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	8
61	Evaluation of Operating Margin and Switching Probability of Voltage- Controlled Magnetic Anisotropy Magnetic Tunnel Junctions. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , <b>2018</b> , 4, 76-84	2.4	8
60	Quantitative analysis and optimization of magnetization precession initiated by ultrafast optical pulses. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 162405	3.4	8
59	High saturation magnetization and low magnetic anisotropy Fe-CN martensite thin film. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 152401	3.4	7
58	Epitaxial Fe <sub>16</sub> N <sub>2</sub> thin film on nonmagnetic seed layer. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 192402	3.4	7
57	Asymmetric Spin Torque Transfer in Nano GMR Device With Perpendicular Anisotropy. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2833-2835	2	7
56	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> , <b>2020</b> , 117,	3.4	7
55	A fast magnetoelectric device based on current-driven domain wall propagation <b>2016</b> ,		7
54	Investigation of Commercial Iron Oxide Nanoparticles: Structural and Magnetic Property Characterization. <i>ACS Omega</i> , <b>2021</b> , 6, 6274-6283	3.9	7

53	Voltage-Controlled Antiferromagnetism in Magnetic Tunnel Junctions. <i>Physical Review Letters</i> , <b>2020</b> , 124, 187701	7.4	6
52	In Vitro Viscosity Measurement on Superparamagnetic Nanoparticle Suspensions. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	6
51	Observation of Intermediate States in Magnetic Tunnel Junctions With Composite Free Layer. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2496-2499	2	6
50	A Portable Magnetic Particle Spectrometer for Future Rapid and Wash-Free Bioassays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7966-7976	9.5	6
49	Magnetization Response Spectroscopy of Superparamagnetic Nanoparticles Under Mixing Frequency Fields. <i>IEEE Transactions on Magnetics</i> , <b>2016</b> , 52, 1-4	2	5
48	Current-Induced Fast-Ordering of L1 <sub>0</sub> -FePt Films With Small Grain Size. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3660-3662	2	5
47	Effect of capping layer on formation and magnetic properties of MnBi thin films. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 213904	2.5	5
46	Fe <sub>3</sub> Si nanoparticles for alternating magnetic field heating. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	5
45	Chemical stability of highly (0001) textured Sm(CoCu) <sub>5</sub> thin films with a thin Ta capping layer. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07B715	2.5	5
44	Performance Characterization and Majority Gate Design for MESO-Based Circuits. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , <b>2018</b> , 4, 51-59	2.4	5
43	Giant Magnetoresistance Biosensors in Biomedical Applications.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	5
42	Design and fabrication of integrated magnetic field sensing system with enhanced sensitivity. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 511, 166728	2.8	4
41	Black Phosphorus: Revealing the Origins of 3D Anisotropic Thermal Conductivities of Black Phosphorus (Adv. Electron. Mater. 5/2016). <i>Advanced Electronic Materials</i> , <b>2016</b> , 2,	6.4	4
40	Interaction of Domain Walls and Magnetic Nanoparticles in Giant Magnetoresistive Nanostrips for Biological Applications. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3414-3417	2	4
39	Spontaneously Formed FePt Graded Granular Media With a Large Gain Factor. <i>IEEE Magnetics Letters</i> , <b>2012</b> , 3, 4500104-4500104	1.6	4
38	Quantitative analysis of interaction between domain walls and magnetic nanoparticles. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07D506	2.5	4
37	Magnetic structure of Fe <sub>16</sub> N <sub>2</sub> determined by polarized neutron diffraction on thin-film samples. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
36	Giant Anomalous Hall Effect due to Double-Degenerate Quasiflat Bands. <i>Physical Review Letters</i> , <b>2021</b> , 126, 106601	7.4	4



35	Fast spintronic thermal sensor for IC power driver cooling down <b>2016</b> ,		4
34	Computing-in-memory with spintronics <b>2018</b> ,		3
33	Deposition and spin polarization study of Fe4N thin films with (111) orientation. <i>AIP Advances</i> , <b>2017</b> , 7, 095001	1.5	3
32	Film Composition, Substrate Temperature, and Thickness Dependence of Sm(Co, Cu) <sub>5</sub> /Ru Thin Films With Perpendicular Anisotropy. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 3550-3553	2	3
31	High-Yield Gas-Phase Condensation Synthesis of Nanoparticles to Enable a Wide Array of Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7942-7949	5.6	3
30	Experimental demonstration of integrated magneto-electric and spin-orbit building blocks implementing energy-efficient logic <b>2019</b> ,		3
29	Tunable magnetic domain walls for therapeutic neuromodulation at cellular level: Stimulating neurons through magnetic domain walls. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 183902	2.5	3
28	Magnetocrystalline anisotropy of Fe16N2 under various DFT approaches. <i>AIP Advances</i> , <b>2021</b> , 11, 015039	1.5	3
27	Laser-initiated magnetization reversal and correlated morphological effects visualized with in situ Fresnel transmission electron microscopy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	2
26	Non-Local Lateral Spin-Valve Devices Fabricated With a Versatile Top-Down Fabrication Process. <i>IEEE Magnetics Letters</i> , <b>2016</b> , 7, 1-4	1.6	2
25	Ferromagnetic resonance and magnetization switching characteristics of perpendicular magnetic tunnel junctions with synthetic antiferromagnetic free layers. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 012404 <sup>3-4</sup>	3.4	2
24	Bipolar Electric-Field Switching of Perpendicular Magnetic Tunnel Junctions through Voltage-Controlled Exchange Coupling.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	2
23	Magnetic Particle Spectroscopy with One-Stage Lock-In Implementation for Magnetic Bioassays with Improved Sensitivities. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 17221-17231	3.8	2
22	Buffer layer engineering of L10 FePd thin films with large perpendicular magnetic anisotropy. <i>AIP Advances</i> , <b>2021</b> , 11, 025106	1.5	2
21	SpinOrbit Torque and Spin Hall Effect-Based Cellular Level Therapeutic Spintronic Neuromodulator: A Simulation Study. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 24963-24972	3.8	1
20	An Energy Efficient Non-Volatile Flip-Flop based on CoMET Technology <b>2019</b> ,		1
19	Incorporation of Phosphorus Impurities in a Silicon Nanowire Transistor with a Diameter of 5 nm. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	1
18	Theory of Quantum Computation With Magnetic Clusters. <i>IEEE Transactions on Quantum Engineering</i> , <b>2020</b> , 1, 1-8	2.9	1

17	Charge trapping analysis in sputtered BixSe1-x based accumulation-mode FETs. <i>AIP Advances</i> , <b>2020</b> , 10, 015315	1.5	1
16	Immobilization of DNA on Fe nanoparticles and their hybridization to functionalized surface. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	1
15	Magnetic logic and computation using magnetic tunnel junctions <b>2013</b> ,		1
14	Exchange Coupling in Synthetic Antiferromagnetic Multilayers for Magnetic Write Head. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 3621-3624	2	1
13	New perpendicular media by engineering the thermal stability and writing capability separately <b>2005</b> ,		1
12			
11	Effects of mobile oxygen ions in top-gated synthetic antiferromagnet structure. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 202405	3.4	1
10	Microstructure Analysis of Melt Spun FeN foils with $\beta$ -Fe16N2 Phase. <i>MRS Advances</i> , <b>2016</b> , 1, 2373-2378	0.7	1
9	Surface acoustic wave induced modulation of tunneling magnetoresistance in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 033901	2.5	1
8	Spin torque oscillation modes of a dual magnetic tunneling junction. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07D307	2.5	0
7	CRAM-Seq: Accelerating RNA-Seq Abundance Quantification using Computational RAM. <i>IEEE Transactions on Emerging Topics in Computing</i> , <b>2022</b> , 1-1	4.1	0
6	Enhancement of voltage controlled magnetic anisotropy (VCMA) through electron depletion. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 153904	2.5	0
5	FORC-study of magnetization reversal of L10-FePt based exchange coupled composite films. <i>AIP Advances</i> , <b>2017</b> , 7, 056510	1.5	
4	Molecular dynamic simulation study of plasma etching L10 FePt media in embedded mask patterning (EMP) process. <i>AIP Advances</i> , <b>2017</b> , 7, 056507	1.5	
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2	High Ms Fe16N2 thin film with Ag under layer on GaAs substrate. <i>AIP Advances</i> , <b>2016</b> , 6, 056203	1.5	
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