

# Muhammad Irfan

## List of Publications by Citations

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158  
papers

2,955  
citations

29  
h-index

47  
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165  
ext. papers

3,632  
ext. citations

4.4  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
158	Electric-field control of nonvolatile magnetization in Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> /Pb(Mg(1/3)Nb(2/3))(0.7)Ti(0.3)O <sub>3</sub> structure at room temperature. <i>Physical Review Letters</i> , <b>2012</b> , 108, 137203	7.4	291
157	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , <b>2019</b> , 5, eaaw8904	14.3	119
156	The perpendicular anisotropy of Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub> sandwiched between Ta and MgO layers and its application in CoFeB/MgO/CoFeB tunnel junction. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 012502	3.4	84
155	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 980-986	11.5	68
154	Room-Temperature Spin-Orbit Torque from Topological Surface States. <i>Physical Review Letters</i> , <b>2019</b> , 123, 207205	7.4	67
153	Field-Free Programmable Spin Logics via Chirality-Reversible Spin-Orbit Torque Switching. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801318	24	63
152	Observation of magnon-mediated electric current drag at room temperature. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	61
151	Nanoring magnetic tunnel junction and its application in magnetic random access memory demo devices with spin-polarized current switching (invited). <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 07E933	2.5	60
150	Spin-orbit torque in MgO/CoFeB/Ta/CoFeB/MgO symmetric structure with interlayer antiferromagnetic coupling. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	59
149	Magnon Valve Effect between Two Magnetic Insulators. <i>Physical Review Letters</i> , <b>2018</b> , 120, 097205	7.4	59
148	Strain induced enhancement of perpendicular magnetic anisotropy in Co/graphene and Co/BN heterostructures. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	58
147	Effect of Y <sub>2</sub> O <sub>3</sub> doping on the electrical transport properties of Sr <sub>2</sub> MnNiFe <sub>12</sub> O <sub>22</sub> Y-type hexaferrite. <i>Current Applied Physics</i> , <b>2014</b> , 14, 112-117	2.6	53
146	Spinel oxides: $\pi$ spin-filter barrier for a class of magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 222401	3.4	49
145	Programmable Spin Logic Based on Spin Hall Effect in a Single Device. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600282	6.4	47
144	Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	47
143	Spin-orbit torque switching in a T-type magnetic configuration with current orthogonal to easy axes. <i>Nature Communications</i> , <b>2019</b> , 10, 233	17.4	45
142	Field-free spin Hall effect driven magnetization switching in Pd/Co/IrMn exchange coupling system. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 132402	3.4	43

141	Effect of alumina and silicon carbide hybrid reinforcements on tensile, compressive and microhardness behavior of Mg <sub>3</sub> Al <sub>2</sub> Zn alloy. <i>Materials Characterization</i> , <b>2015</b> , 106, 382-389	3.9	41
140	Influence of cobalt doping on structural and magnetic properties of BiFeO <sub>3</sub> nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	41
139	Scaling relation between anomalous Nernst and Hall effect in [Pt/Co] <sub>n</sub> multilayers. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	39
138	Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo[CoFeB]/MgO structures. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 142403	3.4	39
137	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. <i>Physical Review Letters</i> , <b>2020</b> , 124, 027203	7.4	36
136	Electrical control over perpendicular magnetization switching driven by spin-orbit torques. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	36
135	Study of electrical and dielectric behavior of Tb +3 substituted Y-type hexagonal ferrite. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 617, 863-868	5.7	33
134	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. <i>Nature Communications</i> , <b>2017</b> , 8, 449	17.4	31
133	Electrochemical fabrication and magnetization properties of CoCrPt nanowires and nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 203101	3.4	31
132	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. <i>Physical Review Letters</i> , <b>2015</b> , 115, 157204	7.4	30
131	Spin-orbit torques: Materials, physics, and devices. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 120502	3.4	30
130	Spin-orbit torque switching in perpendicular Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> /Pt bilayer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192409	3.4	29
129	Observation of pure inverse spin Hall effect in ferromagnetic metals via ferromagnetic/antiferromagnetic exchange-bias structures. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	29
128	Synthesis and magnetic characterization of Co-NiO-Ni core-shell nanotube arrays. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 073912	2.5	29
127	Large magnetic anisotropy and strain induced enhancement of magnetic anisotropy in monolayer TaTe. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 24341-24347	3.6	27
126	Enhanced exchange bias and improved ferromagnetic properties in Permalloy-BiFe <sub>0.95</sub> Co <sub>0.05</sub> O <sub>3</sub> core-shell nanostructures. <i>Scientific Reports</i> , <b>2015</b> , 5, 18203	4.9	26
125	Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 152404	3.4	25
124	Structural and magnetic response of Mn substituted Co <sub>2</sub> Y-type barium hexaferrites. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 1017-1024	5.7	24

123	Exchange-biased hybrid ferromagnetic-multiferroic core-shell nanostructures. <i>Nanoscale</i> , <b>2014</b> , 6, 7215-20	24
122	Effects of current on nanoscale ring-shaped magnetic tunnel junctions. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3 24
121	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3 24
120	High frequency electrical transport properties of CoFe <sub>2</sub> O <sub>4</sub> and Sr <sub>2</sub> NiMnFe <sub>12</sub> O <sub>22</sub> composite ferrites. <i>Ceramics International</i> , <b>2014</b> , 40, 155-162	5.1 23
119	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 212406	3.4 23
118	MgO(001) barrier based magnetic tunnel junctions and their device applications. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2013</b> , 56, 29-60	3.6 21
117	Electrical spin injection into InGaAs/GaAs quantum wells: A comparison between MgO tunnel barriers grown by sputtering and molecular beam epitaxy methods. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 012404	3.4 21
116	Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures. <i>Nanoscale</i> , <b>2016</b> , 8, 6064-70	7.7 20
115	Tunneling magnetoresistance in Fe <sub>3</sub> Si/MgO/Fe <sub>3</sub> Si(001) magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 172406	3.4 20
114	First-principles study of perpendicular magnetic anisotropy in ferrimagnetic D0 <sub>22</sub> -Mn <sub>3</sub> X (X = Ga, Ge) on MgO and SrTiO <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2018</b> , 112, 142403	3.4 19
113	Noise suppression and sensitivity manipulation of magnetic tunnel junction sensors with soft magnetic Co <sub>70.5</sub> Fe <sub>4.5</sub> Si <sub>15</sub> B <sub>10</sub> layer. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 113903	2.5 18
112	Effect of interfacial structures on spin dependent tunneling in epitaxial L1 <sub>0</sub> -FePt/MgO/FePt perpendicular magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 083904	2.5 18
111	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 691-697	3.8 18
110	Strain controlling transport properties of heterostructure composed of monolayer CrI <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192405	3.4 17
109	Dielectric Behavior and Magnetic Properties of Mn-Substituted Ni <sub>2</sub> Zn Ferrites. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 2369-2377	1.9 17
108	Effect of loading ZnNiCrFe <sub>2</sub> O <sub>4</sub> nanoparticles on structural and microwave absorption properties of polyaniline nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 9489-9495	2.1 17
107	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. <i>Advanced Materials</i> , <b>2015</b> , 27, 6934-8	24 17
106	Junction resistance, tunnel magnetoresistance ratio, and spin-transfer torque in Zn-doped magnetic tunnel junctions. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3 17

105	All-electrical manipulation of magnetization in magnetic tunnel junction via spin-orbit torque. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 162401	3.4	17
104	Acceptor-modulated optical enhancements and band-gap narrowing in ZnO thin films. <i>AIP Advances</i> , <b>2018</b> , 8, 035212	1.5	17
103	Controllable synthesis of ferromagnetic-antiferromagnetic core-shell NWs with tunable magnetic properties. <i>Nanoscale</i> , <b>2017</b> , 9, 5694-5700	7.7	16
102	First-principles study of MnAl for its application in MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 252403	3.4	16
101	Perpendicular magnetic anisotropy in Ta Co <sub>40</sub> Fe <sub>40</sub> B <sub>20</sub>  MgAl <sub>2</sub> O <sub>4</sub> structures and perpendicular CoFeB MgAl <sub>2</sub> O <sub>4</sub>  CoFeB magnetic tunnel junction. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 102407	3.4	16
100	Utilizing the anti-ferromagnetic functionality of a multiferroic shell to study exchange bias in hybrid core-shell nanostructures. <i>Nanoscale</i> , <b>2015</b> , 7, 13398-403	7.7	15
99	Current-induced magnetization switching in a microscale ring-shaped magnetic tunnel junction. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	15
98	Study of spin-orbit torque induced magnetization switching in synthetic antiferromagnet with ultrathin Ta spacer layer. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 162402	3.4	14
97	Investigation of the magnetic properties of nanometric SrSmCoNi ferrite/PST matrix. <i>Ceramics International</i> , <b>2015</b> , 41, 8748-8754	5.1	13
96	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. <i>Nano Letters</i> , <b>2018</b> , 18, 2381-2386	11.5	13
95	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. <i>Nanoscale</i> , <b>2018</b> , 10, 10213-10220	7.7	13
94	Magnetic investigations of post-annealed metallic Fe nanowires via electrodeposition method. <i>Materials Letters</i> , <b>2016</b> , 180, 235-238	3.3	13
93	Effect of a semiconductor electrode on the tunneling electroresistance in ferroelectric tunneling junction. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 163501	3.4	13
92	Effect of loading titanium dioxide on structural, electrical and mechanical properties of polyaniline nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 651, 328-332	5.7	12
91	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
90	Perpendicular magnetic tunnel junction and its application in magnetic random access memory. <i>Chinese Physics B</i> , <b>2014</b> , 23, 077501	1.2	12
89	Investigation of structural and electrical properties of vanadium substituted disordered pyrochlore-type Ho <sub>2</sub> VxZr <sub>2</sub> O <sub>7</sub> nanostructure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 593, 117-122	5.7	12
88	Structural and magnetic properties of Fe <sub>3</sub> Ga alloy nanowires: Effect of post annealing treatment. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 691, 1-7	5.7	12

87	Nanoelliptic Ring-Shaped Magnetic Tunnel Junction and Its Application in MRAM Design With Spin-Polarized Current Switching. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 2957-2961	2	12
86	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , <b>2021</b> , 12, 6251	17.4	12
85	Structural, Electrical and Dielectric Properties of Dodecylbenzene Sulphonic Acid Doped Polypyrrole/Nano-Y <sub>2</sub> O <sub>3</sub> Composites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 1287-1292	3.2	12
84	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. <i>Nanoscale</i> , <b>2016</b> , 8, 14956-64	7.7	11
83	HYSTERESIS AND ELECTRIC MODULUS ANALYSIS OF Y <sup>3+</sup> DOPED MnNi-Y-TYPE HEXAGONAL FERRITE. <i>Ceramics - Silikaty</i> , <b>2016</b> , 34-40	0.6	11
82	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	11
81	Observation of large anomalous Nernst effect in 2D layered materials Fe <sub>3</sub> GeTe <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2019</b> , 115, 212402	3.4	11
80	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li <sub>0.5</sub> CrI <sub>3</sub> and CrI <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 117, 022412	3.4	10
79	Epitaxial yttrium iron garnet film for fabrication of high frequency on-chip inductors. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 162405	3.4	10
78	Fabrication and magnetic investigations of highly uniform CoNiGa alloy nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 432, 124-128	2.8	9
77	Determination of spin relaxation times in heavy metals via second-harmonic spin injection magnetoresistance. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	9
76	Quantum confinement effect and size-dependent photoluminescence in laser ablated ultra-thin GZO films. <i>Materials Letters</i> , <b>2018</b> , 210, 358-362	3.3	9
75	Post magnetic field annealing effect on magnetic and structural properties of Co <sub>80</sub> Pt <sub>20</sub> nanowires and nanotubes fabricated by electrochemical method. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A762	2.5	9
74	Controlled nanostructuring of multiphase core-shell nanowires by a template-assisted electrodeposition approach. <i>Nanotechnology</i> , <b>2012</b> , 23, 305601	3.4	9
73	Dopant-driven enhancements in the optoelectronic properties of laser ablated ZnO: Ga thin films. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 161401	2.5	8
72	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. <i>Scientific Reports</i> , <b>2015</b> , 5, 18269	4.9	8
71	Fabrication, morphological, structural and magnetic properties of electrodeposited Fe <sub>3</sub> Pt nanowires and nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 424, 410-415	2.8	8
70	Transport Properties in Sputtered CoFeB/MgAl <sub>2</sub> O <sub>4</sub> /CoFeB Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , <b>2014</b> , 50, 1-4	2	8

69	Double-pinned magnetic tunnel junction sensors with spin-valve-like sensing layers. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 053904	2.5	7
68	Investigation of physical properties of SnS:Fe diluted magnetic semiconductor nanoparticles for spintronic applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 460, 111-119	2.8	7
67	Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 090913	1.4	7
66	Temperature mediated morphological and magnetic phase transitions of iron/iron oxide Core/Shell nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 362-368	5.7	7
65	Structural Characterization and Temperature Dependence of Tunnel Magnetoresistance in Epitaxial Fe/MgO/Fe Junctions. <i>IEEE Transactions on Magnetics</i> , <b>2008</b> , 44, 2562-2565	2	7
64	Field-Free Spin Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 190455	15.6	7
63	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
62	Large photoluminescence enhancement in mechanical-exfoliated one-dimensional ZnO nanorods. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2019</b> , 30, 5170-5176	2.1	6
61	Fabrication and characterization of YIG nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 482, 358-363	2.8	6
60	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	6
59	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 142404	3.4	6
58	Response of iron oxide on hetero-nanostructures of soft and hard ferrites. <i>Superlattices and Microstructures</i> , <b>2016</b> , 92, 374-379	2.8	6
57	Zero-field spin transfer oscillators based on magnetic tunnel junction having perpendicular polarizer and planar free layer. <i>AIP Advances</i> , <b>2016</b> , 6, 125305	1.5	6
56	Giant tunneling magnetoresistance in van der Waals magnetic tunnel junctions formed by interlayer antiferromagnetic bilayer CoBr <sub>2</sub> . <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	6
55	Enhanced tunneling electroresistance in multiferroic tunnel junctions due to the reversible modulation of orbitals overlap. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 192902	3.4	6
54	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	6
53	Advanced Method for the Reliable Estimation of Spin-Orbit-Torque Efficiency in Low-Coercivity Ferromagnetic Multilayers. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	5
52	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	5



51	Influence of Nd <sup>3+</sup> substitution on physical, electrical and dielectric properties of Ba <sub>2</sub> Zn <sub>2</sub> Fe <sub>12</sub> O <sub>22</sub> hexagonal ferrites prepared by sol-gel auto combustion method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 3637-3644	2.1	5
50	First principle calculations and opto-electric enhancement in laser ablated GZO thin films. <i>Optical and Quantum Electronics</i> , <b>2018</b> , 50, 1	2.4	5
49	Magneto-Seebeck effect in spin valves. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 145105	2.5	5
48	Interface-induced perpendicular magnetic anisotropy in CoFeAl/NiFeO superlattice: first-principles study. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 716-723	3.6	5
47	Polypyrrole and its nanocomposites with Zn <sub>0.5</sub> Ni <sub>0.4</sub> Cr <sub>0.1</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite: preparation and electromagnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 6964-6973	2.1	5
46	Micromagnetic simulation of spin torque ferromagnetic resonance in nano-ring-shape confined magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 142406	3.4	5
45	Magnetic field annealing effect and superparamagnetic contributions in one-dimensional CoPt nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 83-87	5.7	4
44	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. <i>AIP Advances</i> , <b>2017</b> , 7, 015035	1.5	4
43	Synthesis and low temperature magnetic measurements of polycrystalline Gadolinium nanowires. <i>Materials Letters</i> , <b>2018</b> , 228, 266-269	3.3	4
42	Gradual magnetization switching via domain nucleation driven by spin-orbit torque. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 032407	3.4	4
41	Electrical Spin Injection into the 2D Electron Gas in AlN/GaN Heterostructures with Ultrathin AlN Tunnel Barrier. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009771	15.6	4
40	Low temperature nucleation of Griffiths Phase in Co doped LaMnO <sub>3</sub> nanostructures. <i>Applied Surface Science</i> , <b>2017</b> , 422, 184-191	6.7	3
39	Structural, Electrical and Dielectric Properties of Pyrochlore LaCrZr <sub>2-x</sub> GexO <sub>7</sub> Nanospheres. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 5740-5744	1.3	3
38	Diameter dependent structural and magnetic properties of CoNi alloy nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 500, 166264	2.8	3
37	Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	3
36	Room temperature spin injection into SiC via Schottky barrier. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 222402	3.4	3
35	Thermally activated magnetization back-hopping based true random number generator in nano-ring magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 112401	3.4	2
34	Optical and dielectric modulus Study of PPy-DBSA/Y <sub>2</sub> O <sub>3</sub> composites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 22365-22374	2.1	2



33	Spin relaxation induced by interfacial effects in n-GaN/MgO/Co spin injectors.. <i>RSC Advances</i> , <b>2020</b> , 10, 12547-12553	3.7	2
32	Experimental investigation and micromagnetic simulations of hybrid CoCrO/Ni coaxial nanostructures. <i>Nanotechnology</i> , <b>2018</b> , 29, 245601	3.4	2
31	Impact of Gd and Cu substitution on dielectric and magnetic properties of MnFeO <sub>3</sub> multiferroic materials. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 571, 199-203	2.8	2
30	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
29	Electrical detection of light helicity using a quantum-dot-based hybrid device at zero magnetic field. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	2
28	Electrical Properties and Characteristics of Polypyrrole Cadmium Oxide (PPy-CdO) Nanocomposite Schottky Diodes. <i>Polymer Science - Series A</i> , <b>2020</b> , 62, 543-549	1.2	2
27	Surface anisotropy induced spin wave nonreciprocity in epitaxial La <sub>0.33</sub> Sr <sub>0.67</sub> MnO <sub>3</sub> film on SrTiO <sub>3</sub> substrate. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 232402	3.4	2
26	Efficient Spin-Orbit-Torque Switching Assisted by an Effective Perpendicular Field in a Magnetic Trilayer. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	2
25	Improved photocatalytic H <sub>2</sub> evolution over composites based on niobium pentoxide, metal sulfides and graphene. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 122, 105492	4.3	2
24	Dielectric properties of polymer/clay nanocomposites. <i>Polymers and Polymer Composites</i> , <b>2021</b> , 29, 807-818	3.1	2
23	Interlayer coupling in intrinsically magnetic bilayer ScO <sub>2</sub> and NbN <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 116, 082403	3.4	1
22	Study on conductivity and dielectric behavior of chemically synthesized polypyrrol dodecylbenzene sulfonic acid blended with poly(methyl methacrylate). <i>Polymer Science - Series A</i> , <b>2016</b> , 58, 429-437	1.2	1
21	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 242404	3.4	1
20	Influence of epitaxial BiFeO <sub>3</sub> on superparamagnetic behavior of CoFeB thin film. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 143904	2.5	1
19	Magnetic fingerprint of interfacial coupling between CoFe and nanoscale ferroelectric domain walls. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 082906	3.4	1
18	A two-step fabrication and characterization of 1D hybrid ferromagnetic-multiferroic Ni □ BiFe <sub>1-x</sub> CoxO <sub>3</sub> core-shell nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 493, 165738 <sup>2,8</sup>	2.8	1
17	Switching the perpendicular magnetization of a magnetic insulator by magnon transfer torque. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
16	Linear diameter dependence magnetization of Fe-CoNi core-shell nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 537, 168164	2.8	1

15	Heusler compound Ni <sub>2</sub> FeGa nanoarchitectures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 539, 168355	2.8	1
14	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 192402	3.4	1
13	Type-Y magnetic tunnel junctions with CoFeB doped tungsten as spin current source. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 182405	3.4	1
12	Magnetic properties of Ni/BiFeO <sub>3</sub> hybrid nanostructures. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 912, 165133	5.7	1
11	Structural and Electronic Properties of PPy-DBSA/Zirconium Oxide Composites. <i>Polymer Science - Series A</i> , <b>2019</b> , 61, 105-111	1.2	0
10	Field-free programmable spin logics based on spin Hall effect. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 212405	3.4	0
9	Investigation of dielectric relaxation behavior, electric modulus and a.c conductivity of low doped polyaniline cadmium oxide (PANI-CdO) nanocomposites. <i>Polymer Bulletin</i> , 1	2.4	0
8	Study of Structural, Thermal and Dielectric Modulus of PPy/DBSA/Zirconium Oxide Composites. <i>Russian Journal of Physical Chemistry B</i> , <b>2019</b> , 13, 1057-1063	1.2	0
7	Role of an in-plane ferromagnet in a T-type structure for field-free magnetization switching. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 122402	3.4	0
6	High-Sensitivity Tunnel Magnetoresistance Sensors Based on Double Indirect and Direct Exchange Coupling Effect*. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 128501	1.8	0
5	Influence of HfO <sub>2</sub> interlayers on magnetocrystalline anisotropy in Fe  MgO  Fe magnetic tunnel junction: First-principles investigation. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 233905	2.5	
4	Microstructural Investigation of RE <sub>3</sub> (Fe.V) 29 (RE = Nd, Tb) Magnetic Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 577, 315		
3	Research progress of spin light emitting diode. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2020</b> , 69, 208501	0.6	
2	Effect of ZnNiCrFe <sub>2</sub> O <sub>4</sub> content on structural and dielectric properties of polyaniline based nanocomposites, synthesized via in-situ chemical polymerization. <i>Polymer Science - Series B</i> , <b>2016</b> , 58, 449-456	0.8	
1	Fabrication of Schottky Diodes Based on Cu Electrode and Polyaniline Cadmium Oxide (PANI/CdO) Composites. <i>Polymer Science - Series B</i> , <b>2021</b> , 63, 432-440	0.8	