

# Muhammad Irfan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

158  
papers

2,955  
citations

29  
h-index

47  
g-index

165  
ext. papers

3,632  
ext. citations

4.4  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
158	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
157	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
156	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
155	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
154	Field-free programmable spin logics based on spin Hall effect. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 212405	3.4	0
153	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , <b>2021</b> , 12, 6251	17.4	12
152	Spin-orbit torques: Materials, physics, and devices. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 120502	3.4	30
151	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
150	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
149	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
148	Dielectric properties of polymer/clay nanocomposites. <i>Polymers and Polymer Composites</i> , <b>2021</b> , 29, 807-818	1.8	2
147	Gradual magnetization switching via domain nucleation driven by spin-orbit torque. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 032407	3.4	4
146	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
145	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	
144	Switching the perpendicular magnetization of a magnetic insulator by magnon transfer torque. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
143	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
142	Heusler compound Ni <sub>2</sub> FeGa nanoarchitectures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 539, 168355	2.8	1

141	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
140	Optical and dielectric modulus Study of PPy-DBSA/Y2O3 composites. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 22365-22374	2.1	2
139	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
138	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	6
137	Interlayer coupling in intrinsically magnetic bilayer ScO2 and NbN2. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 082403	3.4	1
136	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	12
135	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
134	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
133	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
132	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
131	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
130	Research progress of spin light emitting diode. <i>Wuli Xuebao/Acta Physica Sinica</i> , <b>2020</b> , 69, 208501	0.6	
129	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
128	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
127	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
126	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li0.5CrI3 and CrI3. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 022412	3.4	10
125	Surface anisotropy induced spin wave nonreciprocity in epitaxial La0.33 Sr0.67 MnO3 film on SrTiO3 substrate. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 232402	3.4	2
124	A two-step fabrication and characterization of 1D hybrid ferromagnetic-multiferroic Ni □ BiFe1-xCoxO3 core-shell nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 493, 165738	2.8	1

123	Structural, Electrical and Dielectric Properties of Dodecylbenzene Sulphonic Acid Doped Polypyrrole/Nano-Y2O3 Composites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 1287-1292	3.2	12
122	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
121	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
120	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , <b>2019</b> , 5, eaaw8904	14.3	119
119	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
118	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
117	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
116	Influence of HfO2 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	
115	Strain controlling transport properties of heterostructure composed of monolayer CrI3. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192405	3.4	17
114	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
113	Spin-orbit torque switching in perpendicular Y3Fe5O12/Pt bilayer. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 192409	3.4	29
112	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
111	Fabrication and characterization of YIG nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 482, 358-363	2.8	6
110	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
109	Impact of Gd and Cu substitution on dielectric and magnetic properties of MnFeO3 multiferroic materials. <i>Physica B: Condensed Matter</i> , <b>2019</b> , 571, 199-203	2.8	2
108	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
107	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
106	Room-Temperature Spin-Orbit Torque from Topological Surface States. <i>Physical Review Letters</i> , <b>2019</b> , 123, 207205	7.4	67

105	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
104	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
103	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
102	Magnon Valve Effect between Two Magnetic Insulators. <i>Physical Review Letters</i> , <b>2018</b> , 120, 097205	7.4	59
101	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
100	First-principles study of perpendicular magnetic anisotropy in ferrimagnetic D022-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
99	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , <b>2018</b> , 18, 980-986	11.5	68
98	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
97	Experimental investigation and micromagnetic simulations of hybrid CoCrO/Ni coaxial nanostructures. <i>Nanotechnology</i> , <b>2018</b> , 29, 245601	3.4	2
96	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
95	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
94	Field-Free Programmable Spin Logics via Chirality-Reversible Spin-Orbit Torque Switching. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801318	24	63
93	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
92	Synthesis and low temperature magnetic measurements of polycrystalline Gadolinium nanowires. <i>Materials Letters</i> , <b>2018</b> , 228, 266-269	3.3	4
91	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
90	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	6
89	Room temperature spin injection into SiC via Schottky barrier. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 222402	3.4	3
88	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

87	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
86	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	24
85	Acceptor-modulated optical enhancements and band-gap narrowing in ZnO thin films. <i>AIP Advances</i> , <b>2018</b> , 8, 035212	1.5	17
84	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
83	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
82	Controllable synthesis of ferromagnetic-antiferromagnetic core-shell NWs with tunable magnetic properties. <i>Nanoscale</i> , <b>2017</b> , 9, 5694-5700	7.7	16
81	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
80	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
79	Structural, Electrical and Dielectric Properties of Pyrochlore LaCrZr <sub>2</sub> -xGexO <sub>7</sub> Nanospheres. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 5740-5744	1.3	3
78	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
77	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. <i>AIP Advances</i> , <b>2017</b> , 7, 015035	1.5	4
76	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
75	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
74	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. <i>Nature Communications</i> , <b>2017</b> , 8, 449	17.4	31
73	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
72	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
71	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
70	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

69	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
68	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
67	Magneto-Seebeck effect in spin valves. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 145105	2.5	5
66	Electrical control over perpendicular magnetization switching driven by spin-orbit torques. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	36
65	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
64	Observation of magnon-mediated electric current drag at room temperature. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	61
63	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
62	Magnetic investigations of post-annealed metallic Fe nanowires via electrodeposition method. <i>Materials Letters</i> , <b>2016</b> , 180, 235-238	3.3	13
61	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. <i>Nanoscale</i> , <b>2016</b> , 8, 14956-64	7.7	11
60	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
59	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
58	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
57	Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures. <i>Nanoscale</i> , <b>2016</b> , 8, 6064-70	7.7	20
56	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
55	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
54	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
53	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	11
52	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

51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	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	
43	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
42	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
41	Investigation of the magnetic properties of nanometric SrSmCoNi ferrite/PST matrix. <i>Ceramics International</i> , <b>2015</b> , 41, 8748-8754	5-1	13
40	Effect of interfacial structures on spin dependent tunneling in epitaxial L10-FePt/MgO/FePt perpendicular magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 083904	2-5	18
39	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
38	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
37	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
36	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
35	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. <i>Scientific Reports</i> , <b>2015</b> , 5, 18269	4-9	8
34	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



33	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
32	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
31	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. <i>Advanced Materials</i> , <b>2015</b> , 27, 6934-8	24	17
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	Exchange-biased hybrid ferromagnetic-multiferroic core-shell nanostructures. <i>Nanoscale</i> , <b>2014</b> , 6, 7215-20	20	24
22	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
21	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
20	Investigation of structural and electrical properties of vanadium substituted disordered pyrochlore-type Ho <sub>2-x</sub> V <sub>x</sub> Zr <sub>2</sub> O <sub>7</sub> nanostructure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 593, 117-122	5.7	12
19	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
18	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
17	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
16	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

15	Controlled nanostructuring of multiphase core-shell nanowires by a template-assisted electrodeposition approach. <i>Nanotechnology</i> , <b>2012</b> , 23, 305601	3-4	9
14	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
13	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
12	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
11	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
10	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
9	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
8	Electrochemical fabrication and magnetization properties of CoCrPt nanowires and nanotubes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 203101	3-4	31
7	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
6	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
5	Effects of current on nanoscale ring-shaped magnetic tunnel junctions. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	24
4	Current-induced magnetization switching in a microscale ring-shaped magnetic tunnel junction. <i>Physical Review B</i> , <b>2008</b> , 77,	3-3	15
3	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		
2	Field-Free SpinOrbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2109455	15.6	7
1	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