Muhammad Irfan

List of Publications by Year
in descending order

164 papers	4,304 citations	117571 34 h-index	138417 58 g-index
165 all docs	165 docs citations	165 times ranked	4673 citing authors

#	Article	IF	Citations
1	Electric Field Control of Nonvolatile Magnetization in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Co</mml:mi><mml:mn>40</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn mathvariant="normal">B</mml:mi><mml:mn>20</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>Pb</mml:mi><mml:mo		

#	Article	IF	Citations
19	Programmable Spin Logic Based on Spin Hall Effect in a Single Device. Advanced Electronic Materials, 2017, 3, 1600282.	2.6	59
20	Influence of cobalt doping on structural and magnetic properties of BiFeO3 nanoparticles. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	57
21	Spinel oxides: Î”1 spin-filter barrier for a class of magnetic tunnel junctions. Applied Physics Letters, 2012, 100, .	1.5	56
22	Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. Physical Review B, 2014, 90, .	1.1	56
23	Scaling relation between anomalous Nernst and Hall effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mo>[</mml:mo><mml:mrow><mml:mi> Physical Review B, 2016, 93, .	1.1	54
24	Structural and magnetic response of Mn substituted Co 2 Y-type barium hexaferrites. Journal of Alloys and Compounds, 2016, 686, 1017-1024.	2.8	49
25	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. Nature Communications, 2017, 8, 449.	5.8	49
26	Field-free spin Hall effect driven magnetization switching in Pd/Co/IrMn exchange coupling system. Applied Physics Letters, 2016, 109, .	1.5	48
27	Large magnetic anisotropy and strain induced enhancement of magnetic anisotropy in monolayer TaTe₂. Physical Chemistry Chemical Physics, 2017, 19, 24341-24347.	1.3	48
28	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. Physical Review B, 2018, 98, .	1.1	48
29	Thermally stable voltage-controlled perpendicular magnetic anisotropy in Mo|CoFeB|MgO structures. Applied Physics Letters, 2015, 107, .	1.5	47
30	Spin-orbit torque switching in perpendicular Y3Fe5O12/Pt bilayer. Applied Physics Letters, 2019, 114, .	1.5	47
31	Study of electrical and dielectric behavior of Tb +3 substituted Y-type hexagonal ferrite. Journal of Alloys and Compounds, 2014, 617, 863-868.	2.8	45
32	Electrical control over perpendicular magnetization switching driven by spin-orbit torques. Physical Review B, 2016, 94, .	1.1	40
33	Observation of pure inverse spin Hall effect in ferromagnetic metals via ferromagnetic/antiferromagnetic exchange-bias structures. Physical Review B, 2015, 92, .	1.1	38
34	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. Physical Review Letters, 2015, 115, 157204.	2.9	37
35	High frequency electrical transport properties of CoFe2O4 and Sr2NiMnFe12O22 composite ferrites. Ceramics International, 2014, 40, 155-162.	2.3	35
36	Synthesis and magnetic characterization of Co-NiO-Ni core-shell nanotube arrays. Journal of Applied Physics, 2011, 110, .	1.1	34

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37	All-electrical manipulation of magnetization in magnetic tunnel junction via spinâ€“orbit torque. Applied Physics Letters, 2020, 116, 162401.	1.5	34
38	Electrochemical fabrication and magnetization properties of CoCrPt nanowires and nanotubes. Applied Physics Letters, 2009, 94, .	1.5	33
39	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. Journal of Physical Chemistry C, 2019, 123, 691-697.	1.5	33
40	Strain controlling transport properties of heterostructure composed of monolayer CrI3. Applied Physics Letters, 2019, 114, .	1.5	31
41	Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. Applied Physics Letters, 2016, 108, .	1.5	30
42	MgO(001) barrier based magnetic tunnel junctions and their device applications. Science China: Physics, Mechanics and Astronomy, 2013, 56, 29-60.	2.0	28
43	Noise suppression and sensitivity manipulation of magnetic tunnel junction sensors with soft magnetic Co70.5Fe4.5Si15B10 layer. Journal of Applied Physics, 2017, 122, .	1.1	28
44	Enhanced exchange bias and improved ferromagnetic properties in Permalloyâ€“BiFe0.95Co0.05O3 coreâ€“shell nanostructures. Scientific Reports, 2016, 5, 18203.	1.6	27
45	Effects of current on nanoscale ring-shaped magnetic tunnel junctions. Physical Review B, 2008, 77, .	1.1	26
46	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. Applied Physics Letters, 2016, 108, .	1.5	26
47	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. Physical Review B, 2020, 101, .	1.1	26
48	Exchange-biased hybrid ferromagneticâ€“multiferroic coreâ€“shell nanostructures. Nanoscale, 2014, 6, 7215-7220.	2.8	25
49	Magnetic response of hybrid ferromagnetic and antiferromagnetic coreâ€“shell nanostructures. Nanoscale, 2016, 8, 6064-6070.	2.8	25
50	Electrical spin injection into InGaAs/GaAs quantum wells: A comparison between MgO tunnel barriers grown by sputtering and molecular beam epitaxy methods. Applied Physics Letters, 2014, 105, 012404.	1.5	24
51	Dielectric Behavior and Magnetic Properties of Mn-Substituted Niâ€“Zn Ferrites. Journal of Electronic Materials, 2015, 44, 2369-2377.	1.0	24
52	Acceptor-modulated optical enhancements and band-gap narrowing in ZnO thin films. AIP Advances, 2018, 8, .	0.6	24
53	Tunneling magnetoresistance in Fe3Si/MgO/Fe3Si(001) magnetic tunnel junctions. Applied Physics Letters, 2014, 104, .	1.5	23
54	First-principles study of perpendicular magnetic anisotropy in ferrimagnetic D022-Mn3X (X = Ga, Ge) on MgO and SrTiO3. Applied Physics Letters, 2018, 112, 142403.	1.5	22

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55	Fieldâ€Free Spinâ€“Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. Advanced Functional Materials, 2022, 32, 2109455.	7.8	21
56	Effect of a semiconductor electrode on the tunneling electroresistance in ferroelectric tunneling junction. Applied Physics Letters, 2016, 109, .	1.5	20
57	Effect of loading ZnNiCrFe2O4 nanoparticles on structural and microwave absorption properties of polyaniline nanocomposites. Journal of Materials Science: Materials in Electronics, 2016, 27, 9489-9495.	1.1	20
58	Observation of large anomalous Nernst effect in 2D layered materials Fe3GeTe2. Applied Physics Letters, 2019, 115, .	1.5	20
59	Structural, Electrical and Dielectric Properties of Dodecylbenzene Sulphonic Acid Doped Polypyrrole/Nano-Y2O3 Composites. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 1287-1292.	1.9	20
60	Field-free approaches for deterministic spinâ€“orbit torque switching of the perpendicular magnet. Materials Futures, 2022, 1, 022201.	3.1	20
61	Perpendicular magnetic anisotropy in Ta | Co40Fe40B20 | MgAl2O4 structures and perpendicular CoFeB | MgAl2O4 | CoFeB magnetic tunnel junction. Applied Physics Letters, 2014, 105, 102407.	1.5	19
62	Polarizationâ€Mediated Thermal Stability of Metal/Oxide Heterointerface. Advanced Materials, 2015, 27, 6934-6938.	11.1	19
63	Investigation of the magnetic properties of nanometric SrSmCoNi ferrite/PST matrix. Ceramics International, 2015, 41, 8748-8754.	2.3	19
64	First-principles study of MnAl for its application in MgO-based perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	1.5	19
65	Study of spin-orbit torque induced magnetization switching in synthetic antiferromagnet with ultrathin Ta spacer layer. Applied Physics Letters, 2018, 113, .	1.5	19
66	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. Physical Review B, 2020, 101, .	1.1	19
67	Junction resistance, tunnel magnetoresistance ratio, and spin-transfer torque in Zn-doped magnetic tunnel junctions. Physical Review B, 2012, 85, .	1.1	18
68	Effect of interfacial structures on spin dependent tunneling in epitaxial L1-FePt/MgO/FePt perpendicular magnetic tunnel junctions. Journal of Applied Physics, 2015, 117, .	1.1	18
69	Investigation of structural and electrical properties of vanadium substituted disordered pyrochlore-type Ho2â^'xVxZr2O7 nanostructure. Journal of Alloys and Compounds, 2014, 593, 117-122.	2.8	17
70	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li0.5CrI3 and CrI3. Applied Physics Letters, 2020, 117, 022412.	1.5	17
71	Giant tunneling magnetoresistance in van der Waals magnetic tunnel junctions formed by interlayer antiferromagnetic bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">CoBr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 103, .	1.1	17
72	Current-induced magnetization switching in a microscale ring-shaped magnetic tunnel junction. Physical Review B, 2008, 77, .	1.1	16

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73	Effect of loading titanium dioxide on structural, electrical and mechanical properties of polyaniline nanocomposites. Journal of Alloys and Compounds, 2015, 651, 328-332.	2.8	16
74	Controllable synthesis of ferromagneticâ€“antiferromagnetic coreâ€“shell NWs with tunable magnetic properties. Nanoscale, 2017, 9, 5694-5700.	2.8	16
75	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. Nano Letters, 2018, 18, 2381-2386.	4.5	16
76	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. Nanoscale, 2018, 10, 10213-10220.	2.8	16
77	Perpendicular magnetic tunnel junction and its application in magnetic random access memory. Chinese Physics B, 2014, 23, 077501.	0.7	15
78	Utilizing the anti-ferromagnetic functionality of a multiferroic shell to study exchange bias in hybrid coreâ€“shell nanostructures. Nanoscale, 2015, 7, 13398-13403.	2.8	15
79	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. Scientific Reports, 2016, 5, 18269.	1.6	14
80	Determination of spin relaxation times in heavy metals via second-harmonic spin injection magnetoresistance. Physical Review B, 2017, 96, .	1.1	14
81	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. Physical Review Applied, 2020, 13, .	1.5	14
82	Nanoelliptic Ring-Shaped Magnetic Tunnel Junction and Its Application in MRAM Design With Spin-Polarized Current Switching. IEEE Transactions on Magnetics, 2011, 47, 2957-2961.	1.2	13
83	Magnetic investigations of post-annealed metallic Fe nanowires via electrodeposition method. Materials Letters, 2016, 180, 235-238.	1.3	13
84	Structural and magnetic properties of Fe3Ga alloy nanowires: Effect of post annealing treatment. Journal of Alloys and Compounds, 2017, 691, 1-7.	2.8	13
85	Interface-induced perpendicular magnetic anisotropy in Co₂FeAl/NiFe₂O₄ superlattice: first-principles study. Physical Chemistry Chemical Physics, 2020, 22, 716-723.	1.3	13
86	HYSTERESIS AND ELECTRIC MODULUS ANALYSIS OF YÂ³âº DOPED MnNi-Y-TYPE HEXAGONAL FERRITE. Ceramics - Silikaty, 2016, , 34-40.	0.2	13
87	Double-pinned magnetic tunnel junction sensors with spin-valve-like sensing layers. Journal of Applied Physics, 2015, 118, .	1.1	12
88	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. Nanomaterials, 2016, 6, 72.	1.9	12
89	Epitaxial yttrium iron garnet film for fabrication of high frequency on-chip inductors. Applied Physics Letters, 2016, 109, .	1.5	12
90	Fabrication and magnetic investigations of highly uniform CoNiGa alloy nanowires. Journal of Magnetism and Magnetic Materials, 2017, 432, 124-128.	1.0	12

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91	Investigation of physical properties of SnS:Fe diluted magnetic semiconductor nanoparticles for spintronic applications. Journal of Magnetism and Magnetic Materials, 2018, 460, 111-119.	1.0	12
92	Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. Physical Review Applied, 2020, 14, .	1.5	12
93	Enhanced tunneling electroresistance in multiferroic tunnel junctions due to the reversible modulation of orbitals overlap. Applied Physics Letters, 2016, 109, .	1.5	11
94	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. Nanoscale, 2016, 8, 14956-14964.	2.8	11
95	Influence of Nd3+ substitution on physical, electrical and dielectric properties of Ba2Zn2Fe12O22 hexagonal ferrites prepared by solâ€“gel auto combustion method. Journal of Materials Science: Materials in Electronics, 2016, 27, 3637-3644.	1.1	11
96	Synthesis and low temperature magnetic measurements of polycrystalline Gadolinium nanowires. Materials Letters, 2018, 228, 266-269.	1.3	11
97	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. Physical Review B, 2020, 101, .	1.1	11
98	Gradual magnetization switching via domain nucleation driven by spinâ€“orbit torque. Applied Physics Letters, 2021, 118, 032407.	1.5	11
99	Electrical Spin Injection into the 2D Electron Gas in AlN/GaN Heterostructures with Ultrathin AlN Tunnel Barrier. Advanced Functional Materials, 2021, 31, 2009771.	7.8	11
100	Switching the perpendicular magnetization of a magnetic insulator by magnon transfer torque. Physical Review B, 2021, 104, .	1.1	11
101	Controlled nanostructuring of multiphase coreâ€“shell nanowires by a template-assisted electrodeposition approach. Nanotechnology, 2012, 23, 305601.	1.3	10
102	Transport Properties in Sputtered CoFeB/MgAl₂O₄/CoFeB Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	10
103	Post magnetic field annealing effect on magnetic and structural properties of Co80Pt20 nanowires and nanotubes fabricated by electrochemical method. Journal of Applied Physics, 2014, 115, 17A762.	1.1	10
104	Dopant-driven enhancements in the optoelectronic properties of laser ablated ZnO: Ga thin films. Journal of Applied Physics, 2018, 123, 161401.	1.1	10
105	Magnetic-field-free terahertz emission from a magnetic tunneling junction. Japanese Journal of Applied Physics, 2019, 58, 090913.	0.8	10
106	High-Sensitivity Tunnel Magnetoresistance Sensors Based on Double Indirect and Direct Exchange Coupling Effect*. Chinese Physics Letters, 2021, 38, 128501.	1.3	10
107	Quantum confinement effect and size-dependent photoluminescence in laser ablated ultra-thin GZO films. Materials Letters, 2018, 210, 358-362.	1.3	9
108	Fabrication and characterization of YIG nanotubes. Journal of Magnetism and Magnetic Materials, 2019, 482, 358-363.	1.0	9

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109	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. Applied Physics Letters, 2020, 116, .	1.5	9
110	Fabrication, morphological, structural and magnetic properties of electrodeposited Fe 3 Pt nanowires and nanotubes. Journal of Magnetism and Magnetic Materials, 2017, 424, 410-415.	1.0	8
111	Temperature mediated morphological and magnetic phase transitions of iron/iron oxide Core/Shell nanostructures. Journal of Alloys and Compounds, 2017, 696, 362-368.	2.8	8
112	First-principles prediction of switchable metallic ferroelectricity in multiferroic tunnel junctions. Physical Review B, 2019, 99, .	1.1	8
113	Zero-field spin transfer oscillators based on magnetic tunnel junction having perpendicular polarizer and planar free layer. AIP Advances, 2016, 6, 125305.	0.6	8
114	Structural Characterization and Temperature Dependence of Tunnel Magnetoresistance in Epitaxial Fe/MgO/Fe Junctions. IEEE Transactions on Magnetics, 2008, 44, 2562-2565.	1.2	7
115	Polypyrrole and its nanocomposites with Zn0.5Ni0.4Cr0.1Fe2O4 ferrite: preparation and electromagnetic properties. Journal of Materials Science: Materials in Electronics, 2016, 27, 6964-6973.	1.1	7
116	Magnetic Configurations and State Diagram of Nanoring Magnetic Tunnel Junctions. Physical Review Applied, 2018, 10, .	1.5	7
117	Micromagnetic simulation of spin torque ferromagnetic resonance in nano-ring-shape confined magnetic tunnel junctions. Applied Physics Letters, 2018, 113, 142406.	1.5	7
118	Advanced Method for the Reliable Estimation of Spin-Orbit-Torque Efficiency in Low-Coercivity Ferromagnetic Multilayers. Physical Review Applied, 2019, 11, .	1.5	7
119	Spin relaxation induced by interfacial effects in n-GaN/MgO/Co spin injectors. RSC Advances, 2020, 10, 12547-12553.	1.7	7
120	Response of iron oxide on hetero-nanostructures of soft and hard ferrites. Superlattices and Microstructures, 2016, 92, 374-379.	1.4	6
121	Low temperature nucleation of Griffiths Phase in Co doped LaMnO3 nanostructures. Applied Surface Science, 2017, 422, 184-191.	3.1	6
122	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. AIP Advances, 2017, 7, 015035.	0.6	6
123	Large photoluminescence enhancement in mechanical-exfoliated one-dimensional ZnO nanorods. Journal of Materials Science: Materials in Electronics, 2019, 30, 5170-5176.	1.1	6
124	Thermally activated magnetization back-hopping based true random number generator in nano-ring magnetic tunnel junctions. Applied Physics Letters, 2019, 114, .	1.5	6
125	Optical and dielectric modulus Study of PPy-DBSA/Y2O3 composites. Journal of Materials Science: Materials in Electronics, 2020, 31, 22365-22374.	1.1	6
126	Dielectric properties of polymer/clay nanocomposites. Polymers and Polymer Composites, 2021, 29, 807-813.	1.0	6

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127	Room temperature spin injection into SiC via Schottky barrier. Applied Physics Letters, 2018, 113, 222402.	1.5	5
128	First principle calculations and opto-electric enhancement in laser ablated GZO thin films. Optical and Quantum Electronics, 2018, 50, 1.	1.5	5
129	Surface anisotropy induced spin wave nonreciprocity in epitaxial La0.33 Sr0.67 MnO3 film on SrTiO3 substrate. Applied Physics Letters, 2020, 117, .	1.5	5
130	Improved photocatalytic H2 evolution over composites based on niobium pentoxide, metal sulfides and graphene. Materials Science in Semiconductor Processing, 2021, 122, 105492.	1.9	5
131	Efficient Spin-Orbit-Torque Switching Assisted by an Effective Perpendicular Field in a Magnetic Trilayer. Physical Review Applied, 2021, 16, .	1.5	5
132	Magneto-Seebeck effect in spin valves. Journal of Applied Physics, 2017, 122, .	1.1	5
133	Ferromagnetic barrier induced large enhancement of tunneling magnetoresistance in van der Waals perpendicular magnetic tunnel junctions. Nanoscale, 2021, 13, 19993-20001.	2.8	5
134	Role of an in-plane ferromagnet in a T-type structure for field-free magnetization switching. Applied Physics Letters, 2022, 120, .	1.5	5
135	Magnetic properties of Ni/BiFeO3 hybrid nanostructures. Journal of Alloys and Compounds, 2022, 912, 165133.	2.8	5
136	Magnetic field annealing effect and superparamagnetic contributions in one-dimensional CoPt nanostructures. Journal of Alloys and Compounds, 2017, 722, 83-87.	2.8	4
137	Structural, Electrical and Dielectric Properties of Pyrochlore LaCrZr_{2-x}Ge_xO₇ Nanospheres. Journal of Nanoscience and Nanotechnology, 2017, 17, 5740-5744.	0.9	4
138	Diameter dependent structural and magnetic properties of CoNi alloy nanotubes. Journal of Magnetism and Magnetic Materials, 2020, 500, 166264.	1.0	4
139	Investigation of dielectric relaxation behavior, electric modulus and a.c conductivity of low doped polyaniline cadmium oxide (PANI-CdO) nanocomposites. Polymer Bulletin, 2022, 79, 6581-6600.	1.7	4
140	Electrical detection of light helicity using a quantum-dot-based hybrid device at zero magnetic field. Physical Review Materials, 2020, 4, .	0.9	4
141	Impact of Gd and Cu substitution on dielectric and magnetic properties of MnFeO3 multiferroic materials. Physica B: Condensed Matter, 2019, 571, 199-203.	1.3	3
142	Giant tunneling magnetoresistance induced by bias voltage in spin-filter van der Waals magnetic tunnel junctions with an interlayer antiferromagnetic semiconductor barrier. Physical Review B, 2021, 104, .	1.1	3
143	Anomalous anisotropic spin-wave propagation in thin manganite films with uniaxial magnetic anisotropy. Applied Physics Letters, 2022, 120, .	1.5	3
144	Experimental investigation and micromagnetic simulations of hybrid CoCr2O4/Ni coaxial nanostructures. Nanotechnology, 2018, 29, 245601.	1.3	2

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145	Tunneling anisotropic magnetoresistance in fully epitaxial magnetic tunnel junctions with different barriers. Applied Physics Letters, 2018, 112, 242404.	1.5	2
146	Interlayer coupling in intrinsically magnetic bilayer ScO2 and NbN2. Applied Physics Letters, 2020, 116, .	1.5	2
147	Materials, physics, and devices of spinâ€“orbit torque effect. Applied Physics Letters, 2021, 118, 180401.	1.5	2
148	Linear diameter dependence magnetization of Fe-CoNi coreâ€“shell nanostructures. Journal of Magnetism and Magnetic Materials, 2021, 537, 168164.	1.0	2
149	Heusler compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.svg"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Ni</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml nanoarchitectures. Journal of Magnetism and Magnetic Materials, 2021, 539, 168355.	1.0	2
150	Electrical Properties and Characteristics of Polypyrrole Cadmium Oxide (PPy-CdO) Nanocomposite Schottky Diodes. Polymer Science - Series A, 2020, 62, 543-549.	0.4	2
151	Type-Y magnetic tunnel junctions with CoFeB doped tungsten as spin current source. Applied Physics Letters, 2022, 120, .	1.5	2
152	Influence of epitaxial BiFeO3 on superparamagnetic behavior of CoFeB thin film. Journal of Applied Physics, 2015, 117, 143904.	1.1	1
153	Magnetic fingerprint of interfacial coupling between CoFe and nanoscale ferroelectric domain walls. Applied Physics Letters, 2016, 109, 082906.	1.5	1
154	Study on conductivity and dielectric behavior of chemically synthesized polypyrrol dodecylbenzene sulfonic acid blended with poly(methyl methacrylate). Polymer Science - Series A, 2016, 58, 429-437.	0.4	1
155	Structural and Electronic Properties of PPy-DBSA/Zirconium Oxide Composites. Polymer Science - Series A, 2019, 61, 105-111.	0.4	1
156	Study of Structural, Thermal and Dielectric Modulus of PPyâ€“DBSAâ€“Zirconium Oxide Composites. Russian Journal of Physical Chemistry B, 2019, 13, 1057-1063.	0.2	1
157	A two-step fabrication and characterization of 1D hybrid ferromagnetic-multiferroic Ni â€“ BiFe1-xCoxO3 core-shell nanostructures. Journal of Magnetism and Magnetic Materials, 2020, 493, 165738.	1.0	1
158	Field-free programmable spin logics based on spin Hall effect. Applied Physics Letters, 2021, 119, .	1.5	1
159	Microstructural Investigation of RE3(Fe.V) 29 (RE = Nd, Tb) Magnetic Materials. Materials Research Society Symposia Proceedings, 1999, 577, 315.	0.1	0
160	Effect of ZnNiCrFe2O4 content on structural and dielectric properties of polyaniline based nanocomposites, synthesized via in-situ chemical polymerization. Polymer Science - Series B, 2016, 58, 449-456.	0.3	0
161	Influence of HfO2 interlayers on magnetocrystalline anisotropy in Fe |MgO |Fe magnetic tunnel junction: First-principles investigation. Journal of Applied Physics, 2019, 125, 233905.	1.1	0
162	Fabrication of Schottky Diodes Based on Cu Electrode and Polyaniline Cadmium Oxide (PANI/CdO) Composites. Polymer Science - Series B, 2021, 63, 432-440.	0.3	0

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163	The total ionizing dose effect of magnetometers system based on tunneling magnetoresistance sensor. , 2018, , .		0
164	Research progress of spin light emitting diode. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 208501.	0.2	0