

# Zhidong Zhang

## List of Publications by Citations

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306  
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7,910  
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L-index

#	Paper	IF	Citations
289	Microwave-absorption properties of ZnO-coated iron nanocapsules. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 173117	3.4	337
288	Ferroelectrics. Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO <sub>3</sub> films. <i>Science</i> , <b>2015</b> , 348, 547-51	33.3	308
287	Electric-field control of magnetism in a few-layered van der Waals ferromagnetic semiconductor. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 554-559	28.7	299
286	Broadband microwave absorption of CoNi@C nanocapsules enhanced by dual dielectric relaxation and multiple magnetic resonances. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 223113	3.4	178
285	Microwave absorption properties of core double-shell FeCo/C/BaTiO <sub>3</sub> nanocomposites. <i>Nanoscale</i> , <b>2014</b> , 6, 3967-71	7.7	176
284	Dual nonlinear dielectric resonance and strong natural resonance in Ni/ZnO nanocapsules. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 053119	3.4	132
283	Colossal barocaloric effects in plastic crystals. <i>Nature</i> , <b>2019</b> , 567, 506-510	50.4	131
282	Room-Temperature Ferroelectricity in Hexagonally Layered Hn <sub>2</sub> Se <sub>3</sub> Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803738	15.6	127
281	Optimal electromagnetic-wave absorption by enhanced dipole polarization in Ni/C nanocapsules. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 083116	3.4	125
280	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , <b>2019</b> , 5, eaaw8904	14.3	119
279	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701144	24	117
278	Broadband electromagnetic-wave absorption by FeCo/C nanocapsules. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 023114	3.4	114
277	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 499-505	16.4	111
276	Large magnetocaloric effect and enhanced magnetic refrigeration in ternary Gd-based bulk metallic glasses. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 023918	2.5	106
275	Strain-induced magnetism in MoS <sub>2</sub> monolayer with defects. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 054305.5	3.5	93
274	Size-Dependent Magnetic, Photoabsorbing, and Photocatalytic Properties of Single-Crystalline Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 25241-25246	3.8	92
273	High pressure effect on structure, electronic structure, and thermoelectric properties of MoS <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 013709	2.5	91

272	CoxNi100-x nanoparticles encapsulated by curved graphite layers: controlled in situ metal-catalytic preparation and broadband microwave absorption. <i>Nanoscale</i> , <b>2015</b> , 7, 17312-9	7.7	82
271	Double resonance Raman modes in monolayer and few-layer MoTe2. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	76
270	Graphene nanoflakes with optimized nitrogen doping fabricated by arc discharge as highly efficient absorbers toward microwave absorption. <i>Carbon</i> , <b>2019</b> , 148, 204-213	10.4	74
269	Excellent microwave-absorption performances by matched magnetic dielectric properties in double-shelled Co/C/polyaniline nanocomposites. <i>RSC Advances</i> , <b>2015</b> , 5, 40384-40392	3.7	70
268	Large, Temperature-Tunable Low-Field Magnetoresistance in La0.7Sr0.3MnO3:NiO Nanocomposite Films Modulated by Microstructures. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5393-5401	15.6	66
267	Magnetocaloric effect in Ho2In over a wide temperature range. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 182501	3.4	60
266	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe2. <i>Nano Research</i> , <b>2020</b> , 13, 3358-3363	10	59
265	Large reversible magnetocaloric effect in TbCoC2 in low magnetic field. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 242508	3.4	58
264	Understanding strong magnetostriction in Fe(100-x)Ga(x) alloys. <i>Scientific Reports</i> , <b>2013</b> , 3, 3521	4.9	57
263	Intrinsic electrocaloric effects in ferroelectric poly(vinylidene fluoride-trifluoroethylene) copolymers: Roles of order of phase transition and stresses. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 102903	3.4	53
262	Effect of metal grain size on multiple microwave resonances of Fe/TiO2 metal-semiconductor composite. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 133115	3.4	50
261	Synthesis of hierarchical cobalt dendrites based on nanoflake self-assembly and their microwave absorption properties. <i>RSC Advances</i> , <b>2016</b> , 6, 40844-40853	3.7	49
260	Fermi level shifting, charge transfer and induced magnetic coupling at La0.7Ca0.3MnO3/LaNiO3 interface. <i>Scientific Reports</i> , <b>2015</b> , 5, 8460	4.9	48
259	Ab initio studies of the effect of nanoclusters on magnetostriction of Fe1-xGax alloys. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 262505	3.4	46
258	Structure and electromagnetic properties of both regular and defective onion-like carbon nanoparticles. <i>Carbon</i> , <b>2015</b> , 95, 910-918	10.4	45
257	Atomic-scale mapping of dipole frustration at 90° charged domain walls in ferroelectric PbTiO3 films. <i>Scientific Reports</i> , <b>2014</b> , 4, 4115	4.9	45
256	Magnetostructural coupling and magnetocaloric effect in NiMnIn. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 172506	3.4	45
255	Magnetostriction and anisotropy compensation in TbxDy1-xPr0.3(Fe0.9B0.1)1.93 alloys. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 562-564	3.4	45

254	Gate tunable giant anisotropic resistance in ultra-thin GaTe. <i>Nature Communications</i> , <b>2019</b> , 10, 2302	17.4	44
253	Hexagonal phase stabilization and magnetic orders of multiferroic Lu <sub>1-x</sub> Sc <sub>x</sub> FeO <sub>3</sub> . <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	43
252	Magnetic and optical properties of multiferroic GdMnO <sub>3</sub> nanoparticles. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09B510	2.5	43
251	Magnetic anisotropy and coercivity of Fe <sub>3</sub> Se <sub>4</sub> nanostructures. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 202103	3.4	40
250	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO <sub>3</sub> films. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 404001	3	38
249	Linear magnetoresistance versus weak antilocalization effects in Bi <sub>2</sub> Te <sub>3</sub> . <i>Nano Research</i> , <b>2015</b> , 8, 2963-2969	3.6	36
248	Microwave response of FeCo/carbon nanotubes composites. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07A3015	3.15	36
247	Anisotropic behavior of exchange coupling in textured Nd <sub>2</sub> Fe <sub>14</sub> B/Fe multilayer films. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 053903	2.5	36
246	Amorphous boron nanoparticles and BN encapsulating boron nano-peanuts prepared by arc-decomposing diborane and nitriding. <i>Journal of Materials Science</i> , <b>2003</b> , 38, 689-692	4.3	36
245	Flower-like dynamics of coupled Skyrmions with dual resonant modes by a single-frequency microwave magnetic field. <i>Scientific Reports</i> , <b>2014</b> , 4, 6153	4.9	35
244	Electromagnetic-wave absorption properties of FeCo nanocapsules and coral-like aggregates self-assembled by the nanocapsules. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 064319	2.5	34
243	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. <i>RSC Advances</i> , <b>2017</b> , 7, 8258-8263	3.7	33
242	Enhanced wideband microwave absorption of hollow carbon nanowires derived from a template of Al <sub>4</sub> C <sub>3</sub> @C nanowires. <i>Carbon</i> , <b>2020</b> , 161, 252-258	10.4	33
241	Hydrothermal Synthesis of Three-Dimensional Hierarchical CuO Butterfly-Like Architectures. <i>European Journal of Inorganic Chemistry</i> , <b>2009</b> , 2009, 168-173	2.3	33
240	Clifford algebra approach of 3D Ising model. <i>Advances in Applied Clifford Algebras</i> , <b>2019</b> , 29, 1	1	32
239	Anomalous lattice vibrations of monolayer MoS <sub>2</sub> probed by ultraviolet Raman scattering. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 14561-8	3.6	31
238	Interpreting core-level spectra of oxidizing phosphorene: Theory and experiment. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	31
237	Magnetic properties of nickel hydroxide nanoparticles. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 083919	2.5	31

- 236 Magnetic properties and enhanced magnetic refrigeration in  $(\text{Mn}_{1-x}\text{Fe}_x)_5\text{Ge}_3$  compounds. *Journal of Applied Physics*, **2007**, 101, 123911 2.5 31
- 235 The origin of large overestimation of the magnetic entropy changes calculated directly by Maxwell relation. *Applied Physics Letters*, **2010**, 96, 222509 3.4 30
- 234 Sound speed of a Bose-Einstein condensate in an optical lattice. *Physical Review A*, **2008**, 78, 2.6 30
- 233 Enhanced thermoelectric performance of BiCuSeO by increasing Seebeck coefficient through magnetic ion incorporation. *Journal of Materials Chemistry A*, **2017**, 5, 13392-13399 13 28
- 232 Magnetic and reversible magnetocaloric properties of  $(\text{Gd}_{1-x}\text{Dy}_x)_4\text{Co}_3$  ferrimagnets. *Journal of Applied Physics*, **2009**, 105, 053902 2.5 28
- 231 Anisotropic thermopower and magnetothermopower in a misfit-layered calcium cobaltite. *Applied Physics Letters*, **2011**, 98, 202109 3.4 28
- 230 Recent developments of rare-earth-free hard-magnetic materials. *Science China: Physics, Mechanics and Astronomy*, **2016**, 59, 1 3.6 26
- 229 New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. *Physical Review Materials*, **2019**, 3, 3.2 26
- 228 Prospect and status of iron-based rare-earth-free permanent magnetic materials. *Journal of Magnetism and Magnetic Materials*, **2019**, 469, 535-544 2.8 26
- 227 Broadband photovoltaic effect of n-type topological insulator Bi<sub>2</sub>Te<sub>3</sub> films on p-type Si substrates. *Nano Research*, **2017**, 10, 1872-1879 10 25
- 226 Negative imaginary parts of complex permeability and microwave absorption performance of core double-shelled FeCo/C/Fe<sub>2.5</sub>Cr<sub>0.5</sub>Se<sub>4</sub> nanocomposites. *RSC Advances*, **2016**, 6, 73020-73027 3.7 25
- 225 Exchange bias in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/NiO and LaMnO<sub>3</sub>/NiO interfaces. *Journal of Applied Physics*, **2013**, 113, 223903 2.5 25
- 224 Spin canting and spin-flop transition in antiferromagnetic Cr<sub>2</sub>O<sub>3</sub> nanocrystals. *Journal of Applied Physics*, **2009**, 106, 053913 2.5 25
- 223 Coercivity mechanism of anisotropic Pr<sub>2</sub>Fe<sub>14</sub>B thin films with perpendicular texture. *Physical Review B*, **2005**, 72, 3.3 25
- 222 Arc-discharge synthesis of nitrogen-doped C embedded TiCN nanocubes with tunable dielectric/magnetic properties for electromagnetic absorbing applications. *Nanoscale*, **2019**, 11, 19994-20005 7.7 25
- 221 Magnetic Behavior, Electromagnetic Multiresonances, and Microwave Absorption of the Interfacial Engineered Fe@FeSi/SiO<sub>2</sub> Nanocomposite. *ACS Applied Nano Materials*, **2018**, 1, 1309-1320 5.6 24
- 220 Magnetism of amorphous carbon nanofibers. *Applied Physics Letters*, **2009**, 95, 263105 3.4 24
- 219 Nitrogen-doped graphene layer-encapsulated NiFe bimetallic nanoparticles synthesized by an arc discharge method for a highly efficient microwave absorber. *Inorganic Chemistry Frontiers*, **2020**, 7, 1148-1160 6.8 23

218	Wide-band microwave absorption by in situ tailoring morphology and optimized N-doping in nano-SiC. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 223105	3-4	23
217	High Pr-content (Tb <sub>0.2</sub> Pr <sub>0.8</sub> )(Fe <sub>0.4</sub> Co <sub>0.6</sub> ) <sub>1.93</sub> Bx magnetostrictive alloys. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 082506	3-4	23
216	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 082502	2-5	23
215	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 19584-19595	9-5	22
214	Disorder-modulated microwave absorption properties of carbon-coated FeCo nanocapsules. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A514	2-5	22
213	Giant reversible magnetocaloric effect in cobalt hydroxide nanoparticles. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 202502	3-4	22
212	Structure and magnetic properties of Gd nanoparticles and carbon coated Gd/GdC <sub>2</sub> nanocapsules. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 6779-6784	2-5	22
211	Synthesis and structure of multi-layered WS <sub>2</sub> (CoS), MoS <sub>2</sub> (Mo) nanocapsules and single-layered WS <sub>2</sub> (W) nanoparticles. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 4287-4291	4-3	22
210	Computational complexity of spin-glass three-dimensional (3D) Ising model. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 44, 116-120	9-1	21
209	Size and morphology-controlled synthesis of Ni <sub>3</sub> C nanoparticles in a TEG solution and their magnetic properties. <i>RSC Advances</i> , <b>2016</b> , 6, 81989-81994	3-7	21
208	Interface transformation for enhanced microwave-absorption properties of core double-shell nanocomposites. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 694, 1224-1231	5-7	20
207	Reversible room-temperature magnetocaloric effect in Mn <sub>5</sub> PB <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2010</b> , 97, 2025034	3-4	20
206	Magnetic anisotropy and metal-insulator transition in SrRuO <sub>3</sub> thin films at different growth temperatures. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113925	2-5	20
205	Hydrothermal self-assembly of hierarchical cobalt hyperbranches by a sodium tartrate-assisted route. <i>RSC Advances</i> , <b>2011</b> , 1, 1287	3-7	20
204	Charge-order melting and magnetic phase separation in thin films of Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	20
203	Microstructure and magnetic properties of graphite-coated Gd nanocapsules. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 103104	3-4	20
202	Composition anisotropy compensation and spontaneous magnetostriction in Tb <sub>0.2</sub> Dy <sub>0.8</sub> Pr <sub>x</sub> (Fe <sub>0.9</sub> B <sub>0.1</sub> ) <sub>1.93</sub> alloys. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2664-2666	3-4	20
201	High Curie temperature and coercivity performance of Fe <sub>3-x</sub> Cr <sub>x</sub> Se <sub>4</sub> nanostructures. <i>Nanoscale</i> , <b>2015</b> , 7, 5395-402	7-7	19

200	Permittivity and permeability of Zn(Fe)/ZnO nanocapsules and their microwave absorption in the 2-18 GHz range. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A527	2.5	19
199	Synthesis and characterization of Al <sub>2</sub> O <sub>3</sub> nanorods. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 294-299	1.6	19
198	Magnetization processes and magnetostriction of Tb <sub>0.27</sub> Dy <sub>0.73</sub> Fe <sub>2</sub> single crystal along <110> direction. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8489-8491	2.5	19
197	Manganite/Cuprate Superlattice as Artificial Reentrant Spin Glass. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500676	4.6	19
196	Low-pressure-induced giant barocaloric effect in an all-d-metal Heusler Ni <sub>35.5</sub> Co <sub>14.5</sub> Mn <sub>35</sub> Ti <sub>15</sub> magnetic shape memory alloy. <i>APL Materials</i> , <b>2020</b> , 8, 051101	5.7	18
195	Electromagnetic wave absorption and dielectric-modulation of metallic perovskite lanthanum nickel oxide. <i>RSC Advances</i> , <b>2015</b> , 5, 14584-14591	3.7	18
194	Angular dependent magnetoresistance with twofold and fourfold symmetries in A-type antiferromagnetic Nd <sub>0.45</sub> Sr <sub>0.55</sub> MnO <sub>3</sub> thin film. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 172502	3.4	18
193	Interstitial-nitrogen effect on phase transition and magnetocaloric effect in Mn(As,Si) (invited). <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09A938	2.5	18
192	Unconventional exchange bias in CoCr <sub>2</sub> O <sub>4</sub> /Cr <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 064702	2.5	18
191	Regulation of Ferroelectric Polarization to Achieve Efficient Charge Separation and Transfer in Particulate RuO <sub>2</sub> /BiFeO <sub>3</sub> for High Photocatalytic Water Oxidation Activity. <i>Small</i> , <b>2020</b> , 16, e2003361	11	18
190	Evolution of magnetic properties in the vicinity of the Verwey transition in Fe <sub>3</sub> O <sub>4</sub> thin films. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	17
189	Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. <i>Advanced Materials</i> , <b>2020</b> , 32, e1904415	24	17
188	Enhancement of the spin entropy in Na <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> by Ni doping. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 032108	3.4	17
187	Permittivity and permeability of Fe(Tb) nanoparticles and their microwave absorption in the 2-18 GHz range. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09A929	2.5	17
186	Exchange bias and its thermal stability in ferromagnetic/antiferromagnetic antidot arrays. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 012407	3.4	17
185	Asymmetric current-driven switching of synthetic antiferromagnets with Pt insert layers. <i>Nanoscale</i> , <b>2018</b> , 10, 7612-7618	7.7	16
184	Temperature dependence of competition between interlayer and interfacial exchange couplings in ferromagnetic/antiferromagnetic/ferromagnetic trilayers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 222505	3.4	16
183	Fe <sub>3</sub> Si-core/amorphous-C-shell nanocapsules with enhanced microwave absorption. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 471, 561-567	2.8	16



182	Observation of Interfacial Antiferromagnetic Coupling between Magnetic Topological Insulator and Antiferromagnetic Insulator. <i>Nano Letters</i> , <b>2019</b> , 19, 2945-2952	11.5	15
181	Molten-Salt-Assisted Chemical Vapor Deposition Process for Substitutional Doping of Monolayer MoS <sub>2</sub> and Effectively Altering the Electronic Structure and Phononic Properties. <i>Advanced Science</i> , <b>2020</b> , 7, 2001080	13.6	15
180	Controllable Self-Assembled Microstructures of La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> :NiO Nanocomposite Thin Films and Their Tunable Functional Properties. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1500302	4.6	15
179	Nonlinear elastic load-displacement relation for spherical indentation on rubberlike materials. <i>Journal of Materials Research</i> , <b>2010</b> , 25, 2197-2202	2.5	15
178	Magnetic properties, complex permittivity and permeability of FeNi nanoparticles and FeNi/AlO <sub>x</sub> nanocapsules. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 2097-2104	2.3	15
177	Field-induced magnetic transition in cobalt-ferrite. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E308	2.5	15
176	Exchange bias and phase transformation in Fe <sub>2</sub> O <sub>3</sub> +NiO nanocomposites. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 103906	2.5	15
175	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , <b>2021</b> , 12, 79	17.4	15
174	Oxygen Vacancy Ordering Modulation of Magnetic Anisotropy in Strained LaCoO <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38230-38238	9.5	15
173	Effects of Nanoparticle Shape and Size on Optical Properties of LaB <sub>6</sub> . <i>Plasmonics</i> , <b>2016</b> , 11, 697-701	2.4	14
172	Positive magnetoresistance in Fe <sub>3</sub> Se <sub>4</sub> nanowires. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07C705	2.5	14
171	Exchange bias effect in NiO/NiFe <sub>2</sub> O <sub>4</sub> nanocomposites. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07D711	2.5	14
170	Magnetic properties and exchange bias in Mn <sub>2</sub> O <sub>3</sub> /Mn <sub>3</sub> O <sub>4</sub> nanoclusters. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07A315	2.5	14
169	Exchange coupling in hard/soft-magnetic multilayer films with non-magnetic spacer layers. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07B503	2.5	14
168	Magnetic properties and magnetic domains of NdFeB thin films. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 023922	2.5	14
167	Controllable Phase Transition for Layered FeSe Superconductor Synthesized by Solution Chemistry. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 842-848	9.6	13
166	Low-field formation of room-temperature biskyrmions in centrosymmetric MnPdGa magnet. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 142404	3.4	12
165	Probing the flat band of optically trapped spin-orbital-coupled Bose gases using Bragg spectroscopy. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	12



164	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. <i>Physical Review Letters</i> , <b>2019</b> , 123, 196604	7.4	12
163	Phase evaluation, magnetic, and electric properties of Mn <sub>60+x</sub> Ga <sub>40-x</sub> (x = 0-5) ribbons. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17A750	2.5	12
162	Correlation between the ferromagnetic metal percolation and the sign evolution of angular dependent magnetoresistance in Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> film. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 252502	3.4	12
161	Giant magnetoresistance in Mn <sub>2-x</sub> Cu <sub>x</sub> Sb (x=0.4) compounds. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 4726-4728	3.4	12
160	Broken mirror symmetry tuned topological transport in PbTe/SnTe heterostructures. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	12
159	Effect of grain boundary on electrical properties of polycrystalline lanthanum nickel oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 112, 1011-1018	2.6	11
158	Effects of anisotropy and spin-asymmetry of ferromagnetic materials in ferromagnetic/Cr <sub>2</sub> O <sub>3</sub> /ferromagnetic trilayers. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 082501	3.4	11
157	Magnetoelectric effect in laminates of polymer-based pseudo-1B (Tb <sub>0.3</sub> Dy <sub>0.7</sub> ) <sub>0.5</sub> Pr <sub>0.5</sub> Fe <sub>1.55</sub> composite and 0.3Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ·0.7PbTiO <sub>3</sub> single crystal. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 97, 201-204	2.6	11
156	Enhanced doping effect on tuning structural phases of monolayer antimony. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 213104	3.4	11
155	The dimensional crossover of quantum transport properties in few-layered Bi <sub>2</sub> Se <sub>3</sub> thin films. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2303-2310	5.1	10
154	Interfacial Control of Ferromagnetism in Ultrathin SrRuO Films Sandwiched between Ferroelectric BaTiO Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 6707-6715	9.5	10
153	Controllable oxygen vacancies, orbital occupancy and magnetic ordering in SrCoO <sub>3</sub> films. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 454, 228-236	2.8	10
152	Electron delocalization and relaxation behavior in Cu-doped Bi <sub>2</sub> Se <sub>3</sub> films. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	10
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147	Magnetic and transport properties of Mn <sub>3+x</sub> Ga <sub>1-x</sub> N compounds. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 2770-2774	4.3	10

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18	Coupled Current Jumps and Domain Wall Creeps in a Defect-Engineered Ferroelectric Resistive Memory. <i>Advanced Electronic Materials</i> , 2101059	6.4	1
17	Correlated states in doubly-aligned hBN/graphene/hBN heterostructures. <i>Nature Communications</i> , <b>2021</b> , 12, 7196	17.4	1
16	Field-free spin-orbit torque switching induced by interlayer exchange coupling in Pt/Co/Ru/Ni/Pt multilayer. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 243901	2.5	1
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