

Zhidong Zhang

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.

289
papers

6,562
citations

39
h-index

69
g-index

306
ext. papers

7,910
ext. citations

5.1
avg, IF

5.97
L-index

#	Paper	IF	Citations
289	Giant barocaloric effects in formamidinium iodide. <i>APL Materials</i> , 2022 , 10, 011109	5.7	0
288	An overview of SrRuO ₃ -based heterostructures for spintronic and topological phenomena. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 233001	3	2
287	Two-Dimensional Room-Temperature Magnetic Nonstoichiometric FeSe Nanocrystals: Controllable Synthesis and Magnetic Behavior.. <i>Nano Letters</i> , 2022 ,	11.5	9
286	2D FeOCl: A Highly In-Plane Anisotropic Antiferromagnetic Semiconductor Synthesized via Temperature-Oscillation Chemical Vapor Transport.. <i>Advanced Materials</i> , 2022 , e2108847	24	2
285	Magnetism of Tetragonal [Fe ₃ Se ₄ Nanoplates Controllably Synthesized by Thermal Decomposition of (Fe ₂ Se ₃) ₄ [Fe(tepa)] Hybrid. <i>Magnetism</i> , 2022 , 2, 31-44		1
284	Topological Quantum Statistical Mechanics and Topological Quantum Field Theories. <i>Symmetry</i> , 2022 , 14, 323	2.7	1
283	Bifunctional two-dimensional nanocomposite for electromagnetic wave absorption and comprehensive anti-corrosion. <i>Carbon</i> , 2022 , 186, 520-529	10.4	2
282	New selection rule of resonant Raman scattering in MoS ₂ monolayer under circular polarization. <i>Journal of Materials Science and Technology</i> , 2022 , 102, 132-136	9.1	2
281	Self-assembly of 1D FeSe ₂ chains and Fe(dien) ₂ complexes for ferrimagnetic inorganic-organic hybrid cuboids. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 542, 168585	2.8	2
280	Mictomagnetism and suppressed thermal conduction of the prototype high-entropy alloy CrMnFeCoNi. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 55-60	9.1	1
279	Quantum interference directed chiral raman scattering in two-dimensional enantiomers.. <i>Nature Communications</i> , 2022 , 13, 1254	17.4	1
278	Large magnetocaloric effect in antiferromagnetic ternary carbide Dy ₂ Cr ₂ C ₃ around liquid hydrogen temperature. <i>Journal of Magnetism and Magnetic Materials</i> , 2022 , 169339	2.8	
277	Metal-organic framework-derived Co/C composite with high magnetization as broadband electromagnetic wave absorber. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164257	5.7	1
276	Magnetic properties and coercivity mechanism of high Ce-content CeNdFeB film with Tb diffusion. <i>Journal of Applied Physics</i> , 2022 , 131, 163901	2.5	0
275	Ultrasensitive barocaloric material for room-temperature solid-state refrigeration.. <i>Nature Communications</i> , 2022 , 13, 2293	17.4	1
274	Observation of chiral and slow plasmons in twisted bilayer graphene.. <i>Nature</i> , 2022 , 605, 63-68	50.4	5
273	Thermally stable carbon-coated SiC/polydimethylsiloxane nanocomposites for EMI shielding in the terahertz range. <i>Materials Research Bulletin</i> , 2022 , 111900	5.1	0

272	A Method of the Riemann-Hilbert Problem for Zhang's Conjecture 2 in a Ferromagnetic 3D Ising Model: Topological Phases. <i>Mathematics</i> , 2021 , 9, 2936	2.3	1
271	A novel strategy for synthesizing the large size Co ₉ S ₈ @C nanosheets as anode for lithium-ion batteries with superior performance. <i>Journal of Alloys and Compounds</i> , 2021 , 895, 162668	5.7	2
270	Facilitating room-temperature oxygen ion migration Co-O bond activation in cobaltite films. <i>Nanoscale</i> , 2021 , 13, 18256-18266	7.7	2
269	Influence of Dopant Uniformity on Electron Transport in Cu _x Bi ₂ Se ₃ Films. <i>Crystal Growth and Design</i> , 2021 , 21, 608-616	3.5	1
268	A Method of Riemann-Hilbert Problem for Zhang's Conjecture 1 in a Ferromagnetic 3D Ising Model: Trivialization of Topological Structure. <i>Mathematics</i> , 2021 , 9, 776	2.3	2
267	Emerging opportunities for voltage-driven magneto-ionic control in ferroic heterostructures. <i>APL Materials</i> , 2021 , 9, 040904	5.7	8
266	Exact solution of two-dimensional (2D) Ising model with a transverse field: A low-dimensional quantum spin system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 128, 114632	3	5
265	Effects of Outer Shell Layer on the Electronic Transport Behaviors of Sn@SnO _x Nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000430	1.3	0
264	Interface-induced sign reversal of the anomalous Hall effect in magnetic topological insulator heterostructures. <i>Nature Communications</i> , 2021 , 12, 79	17.4	15
263	Controllable Spin-Orbit Torque Efficiency in Pt/Co/Ru/Co/Pt Multilayers with Interlayer Exchange Couplings. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 611-618	4	7
262	Magnetocaloric effect of an antiferromagnetic ErAl ₂ Ge ₂ single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 533, 168014	2.8	3
261	The effects of Eu ³⁺ doping on the epitaxial growth and photovoltaic properties of BiFeO ₃ thin films. <i>Journal of Materials Science and Technology</i> , 2021 , 106, 49-49	9.1	0
260	Correlated states in doubly-aligned hBN/graphene/hBN heterostructures. <i>Nature Communications</i> , 2021 , 12, 7196	17.4	1
259	Enhanced Spin-Orbit Torque and Low Critical Current Density in PtRu/[CoNi]/Ru Multilayer for Spintronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 61742-61750	9.5	2
258	Field-free spin-orbit torque switching induced by interlayer exchange coupling in Pt/Co/Ru/Ni/Pt multilayer. <i>Journal of Applied Physics</i> , 2021 , 130, 243901	2.5	1
257	Low-pressure-induced giant barocaloric effect in an all-d-metal Heusler Ni _{35.5} Co _{14.5} Mn ₃₅ Ti ₁₅ magnetic shape memory alloy. <i>APL Materials</i> , 2020 , 8, 051101	5.7	18
256	Enhanced magnetic properties and thermal stability of highly ordered FeN (-0.12 ± 0.01) nanoparticles. <i>Nanoscale</i> , 2020 , 12, 10834-10841	7.7	1
255	Influence of rare earth metal Ho on the interfacial Dzyaloshinskii-Moriya interaction and spin torque efficiency in Pt/Co/Ho multilayers. <i>Nanoscale</i> , 2020 , 12, 12444-12453	7.7	5

- 254 Scaling law for strain dependence of Raman spectra in transition-metal dichalcogenides. *Journal of Raman Spectroscopy*, **2020**, 51, 1353-1361 2.3 3
- 253 Molten-Salt-Assisted Chemical Vapor Deposition Process for Substitutional Doping of Monolayer MoS and Effectively Altering the Electronic Structure and Phononic Properties. *Advanced Science*, **2020**, 7, 2001080 13.6 15
- 252 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
- 251 Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. *Advanced Materials*, **2020**, 32, e1904415 24 17
- 250 Interfacial Control of Ferromagnetism in Ultrathin SrRuO Films Sandwiched between Ferroelectric BaTiO Layers. *ACS Applied Materials & Interfaces*, **2020**, 12, 6707-6715 9.5 10
- 249 Computational complexity of spin-glass three-dimensional (3D) Ising model. *Journal of Materials Science and Technology*, **2020**, 44, 116-120 9.1 21
- 248 Enhanced wideband microwave absorption of hollow carbon nanowires derived from a template of Al₄C₃@C nanowires. *Carbon*, **2020**, 161, 252-258 10.4 33
- 247 Field-Free Switching of a Spin-Orbit-Torque Device Through Interlayer-Coupling-Induced Domain Walls. *Physical Review Applied*, **2020**, 13, 4.3 9
- 246 Magnetic-field and composition tuned antiferromagnetic instability in the quantum spin-liquid candidate NaYbO₂. *Physical Review Materials*, **2020**, 4, 3.2 5
- 245 Enhanced linear magneto-resistance near the Dirac point in topological insulator Bi₂(Te_{1-x}Sex)₃ nanowires. *Nano Research*, **2020**, 13, 1332-1338 10 3
- 244 Regulation of Ferroelectric Polarization to Achieve Efficient Charge Separation and Transfer in Particulate RuO₂/BiFeO₃ for High Photocatalytic Water Oxidation Activity. *Small*, **2020**, 16, e2003361 11 18
- 243 Dimer rattling mode induced low thermal conductivity in an excellent acoustic conductor. *Nature Communications*, **2020**, 11, 5197 17.4 9
- 242 Giant room-temperature barocaloric effect at the electronic phase transition in Ni_{1-x}FexS. *Materials Horizons*, **2020**, 7, 2690-2695 14.4 10
- 241 Enhancement of spin-orbit torque and modulation of Dzyaloshinskii-Moriya interaction in Pt_{100-x}Crx/Co/AlOx trilayer. *Applied Physics Letters*, **2020**, 117, 222405 3.4 5
- 240 Coercivity mechanism and effect of Dy element in anisotropic LaPrFeB multilayers with Dy diffusion. *Journal of Applied Physics*, **2020**, 128, 043903 2.5 2
- 239 Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe₂. *Nano Research*, **2020**, 13, 3358-3363 10 59
- 238 Nonequilibrium Landau-Zener tunneling in exciton-polariton condensates. *Physical Review A*, **2020**, 102, 2.6 3
- 237 Spin-orbit torque driven four-state switching in splicing structure. *Applied Physics Letters*, **2020**, 117, 232408 3.4 2

236	Vertically Oriented Topological Insulator Bi ₂ Se ₃ Nanoplates on Silicon for Broadband Photodetection. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10135-10142	3.8	10
235	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
234	Coercivity enhancement of sputtered (La,Nd,Dy)-Fe _{1-x} Co _x B multilayers by inserting Ta space layers. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 145001	3	4
233	Gate tunable giant anisotropic resistance in ultra-thin GaTe. <i>Nature Communications</i> , 2019 , 10, 2302	17.4	44
232	Giant Linear Magnetoresistance and Carrier Density Tunable Transport in Topological Crystalline Insulator SnTe Thin Film. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900139	1.3	3
231	Modulation of spin-orbit torque induced magnetization switching in Pt/CoFe through oxide interlayers. <i>Applied Physics Letters</i> , 2019 , 114, 212404	3.4	4
230	Electrical and optical modulation on ferroelectric properties of P(VDF-TrFE) thin film capacitors. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2194-2199	9.1	5
229	The dimensional crossover of quantum transport properties in few-layered Bi ₂ Se ₃ thin films. <i>Nanoscale Advances</i> , 2019 , 1, 2303-2310	5.1	10
228	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19584-19595	9.5	22
227	Graphene nanoflakes with optimized nitrogen doping fabricated by arc discharge as highly efficient absorbers toward microwave absorption. <i>Carbon</i> , 2019 , 148, 204-213	10.4	74
226	Interface effect of ultrathin W layer on spin-orbit torque in Ta/W/CoFeB multilayers. <i>Applied Physics Letters</i> , 2019 , 114, 082402	3.4	7
225	Colossal barocaloric effects in plastic crystals. <i>Nature</i> , 2019 , 567, 506-510	50.4	131
224	Low-field formation of room-temperature biskyrmions in centrosymmetric MnPdGa magnet. <i>Applied Physics Letters</i> , 2019 , 114, 142404	3.4	12
223	Observation of Interfacial Antiferromagnetic Coupling between Magnetic Topological Insulator and Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 2945-2952	11.5	15
222	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO ₃ films. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 404001	3	38
221	Crystal and magnetic structures of Ce ₂ CuGe ₆ . <i>Journal of Alloys and Compounds</i> , 2019 , 805, 1260-1265	5.7	1
220	Broadband Photodetection of GeSe Films of Vertically Grown Nanoflakes. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2236-2243	4	8
219	Prolonged antimicrobial activity of silver core-carbon shell nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1882-1889	2.8	2

218	Magnetic-Field Control of Topological Electronic Response near Room Temperature in Correlated Kagome Magnets. <i>Physical Review Letters</i> , 2019 , 123, 196604	7.4	12
217	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. <i>Physical Review Materials</i> , 2019 , 3,	3.2	26
216	In Situ Synthesis of CNTs/Cu Nanocomposites and the Electronic Transport Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800557	1.3	2
215	Arc-discharge synthesis of nitrogen-doped C embedded TiCN nanocubes with tunable dielectric/magnetic properties for electromagnetic absorbing applications. <i>Nanoscale</i> , 2019 , 11, 19994-20005	7.7	25
214	Nonequilibrium quantum phase transition in a spinor quantum gas in a lattice coupled to a membrane. <i>Physical Review A</i> , 2019 , 100,	2.6	2
213	The Effect of Core/Shell Structure on Microwave Absorption Properties of Graphite-Coated Magnetic Nanocapsules. <i>Journal of Electronic Materials</i> , 2019 , 48, 1429-1435	1.9	2
212	Prospect and status of iron-based rare-earth-free permanent magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 469, 535-544	2.8	26
211	Dark/Bright solitons in spinor polariton condensates under nonresonant pumping. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 025303	1.3	5
210	Fe ₃ Si-core/amorphous-C-shell nanocapsules with enhanced microwave absorption. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 471, 561-567	2.8	16
209	Clifford algebra approach of 3D Ising model. <i>Advances in Applied Clifford Algebras</i> , 2019 , 29, 1	1	32
208	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. <i>Journal of Applied Physics</i> , 2019 , 125, 082502	2.5	23
207	Magnetic Behavior, Electromagnetic Multiresonances, and Microwave Absorption of the Interfacial Engineered Fe@FeSi/SiO ₂ Nanocomposite. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1309-1320	5.6	24
206	Controllable oxygen vacancies, orbital occupancy and magnetic ordering in SrCoO ₃ films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 228-236	2.8	10
205	Absence of Dirac states in BaZnBi ₂ induced by spin-orbit coupling. <i>Physical Review B</i> , 2018 , 97,	3.3	6
204	Polarization and charge-transfer effect on the transport properties in two-dimensional electron gases/LaNiO ₃ heterostructure. <i>Applied Physics Letters</i> , 2018 , 112, 021601	3.4	3
203	Topological Effects and Critical Phenomena in the Three-Dimensional (3D) Ising Model 2018 , 331-343		1
202	Asymmetric current-driven switching of synthetic antiferromagnets with Pt insert layers. <i>Nanoscale</i> , 2018 , 10, 7612-7618	7.7	16
201	Chromium-induced ferromagnetism with perpendicular anisotropy in topological crystalline insulator SnTe (111) thin films. <i>Physical Review B</i> , 2018 , 97,	3.3	9

200	Mediating exchange bias by Verwey transition in CoO/Fe ₃ O ₄ thin film. <i>Journal of Applied Physics</i> , 2018 , 123, 083903	2.5	7
199	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS ₂ . <i>Scientific Reports</i> , 2018 , 8, 11398	4.9	9
198	Self-Assembly of CoPt Magnetic Nanoparticle Arrays and its Underlying Forces. <i>Small</i> , 2018 , 14, e1801184	4.4	8
197	Room temperature magnetoresistance properties in self-assembled epitaxial La _{0.7} Sr _{0.3} MnO ₃ :NiO nanocomposite thin films. <i>Materials Research Letters</i> , 2018 , 6, 489-494	7.4	5
196	The role of pd hybridization in the metal-insulator transition in NdNiO ₃ heterostructure. <i>Materials Research Letters</i> , 2018 , 6, 515-521	7.4	3
195	Enhanced spin-orbit torques and perpendicular magnetic anisotropy in CoFeB/MgO structures with Ta/W bilayer. <i>AIP Advances</i> , 2018 , 8, 065007	1.5	7
194	Buildup of Sn@CNT nanorods by in-situ thermal plasma and the electronic transport behaviors. <i>Science China Materials</i> , 2018 , 61, 1605-1613	7.1	3
193	Achieving High Thermoelectric Figure of Merit in Polycrystalline SnSe via Introducing Sn Vacancies. <i>Journal of the American Chemical Society</i> , 2018 , 140, 499-505	16.4	111
192	Organic/Inorganic Hybrid (Fe ₃ Se ₄) ₄ [Fe(teta) _{1.5}] (teta = triethylenetetramine) Nanoplates: Solution Synthesis and Magnetic Properties. <i>Chemistry of Materials</i> , 2018 , 30, 8975-8982	9.6	6
191	Magnetic Field Modulated Weak Localization and Antilocalization State in Bi ₂ (TeSe) ₃ Films. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800272	1.3	4
190	Magneto-transport and weak anti-localization in ferromagnetic semiconductor CrSiTe ₃ single crystal. <i>Applied Physics Letters</i> , 2018 , 113, 142404	3.4	4
189	Broken mirror symmetry tuned topological transport in PbTe/SnTe heterostructures. <i>Physical Review B</i> , 2018 , 98,	3.3	12
188	Oxygen Vacancy Ordering Modulation of Magnetic Anisotropy in Strained LaCoO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38230-38238	9.5	15
187	Room-Temperature Ferroelectricity in Hexagonally Layered Mn ₂ Se ₃ Nanoflakes down to the Monolayer Limit. <i>Advanced Functional Materials</i> , 2018 , 28, 1803738	15.6	127
186	Non-Drude Magneto-Transport Behavior in a Topological Crystalline Insulator/Band Insulator Heterostructure. <i>Nano Letters</i> , 2018 , 18, 6538-6543	11.5	9
185	Enhanced doping effect on tuning structural phases of monolayer antimony. <i>Applied Physics Letters</i> , 2018 , 112, 213104	3.4	11
184	Electric-field control of magnetism in a few-layered van der Waals ferromagnetic semiconductor. <i>Nature Nanotechnology</i> , 2018 , 13, 554-559	28.7	299
183	Catalytic synthesis and enhanced Curie temperature of Fe ₃ N@C nanostructure synthesized in a tetraethylenepentamine solution. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 736-742	2.8	4

182	Rock-salt-type nanoprecipitates lead to high thermoelectric performance in undoped polycrystalline SnSe. <i>RSC Advances</i> , 2017 , 7, 8258-8263	3-7	33
181	Synthesis and characterization of boron doped diamond/BSiC composite films. <i>Applied Physics Letters</i> , 2017 , 110, 031601	3-4	7
180	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. <i>Advanced Materials</i> , 2017 , 29, 1701144	24	117
179	Magnetization reversal and magnetic interactions in anisotropic Nd-Dy-Fe-Co-B/MgO/Fe disks and multilayers. <i>Nanoscale</i> , 2017 , 9, 7385-7390	7-7	5
178	Enhanced thermoelectric performance of BiCuSeO by increasing Seebeck coefficient through magnetic ion incorporation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13392-13399	13	28
177	Stability and electronic properties of two-dimensional indium iodide. <i>Physical Review B</i> , 2017 , 95,	3-3	7
176	Broadband photovoltaic effect of n-type topological insulator Bi ₂ Te ₃ films on p-type Si substrates. <i>Nano Research</i> , 2017 , 10, 1872-1879	10	25
175	Controllable Phase Transition for Layered FeSe Superconductor Synthesized by Solution Chemistry. <i>Chemistry of Materials</i> , 2017 , 29, 842-848	9.6	13
174	Transport properties of MnTe films with cracks produced in thermal cycling process. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	
173	Evolution of magnetic properties in the vicinity of the Verwey transition in Fe ₃ O ₄ thin films. <i>Physical Review B</i> , 2017 , 96,	3-3	17
172	Extremely low coercivity in Fe ₃ O ₄ thin film grown on Mg ₂ TiO ₄ (001). <i>RSC Advances</i> , 2017 , 7, 43648-43654	5-7	6
171	Single orthorhombic b axis orientation and antiferromagnetic ordering type in multiferroic CaMnO ₃ thin film with La _{0.67} Ca _{0.33} MnO ₃ buffer layer. <i>Applied Physics Letters</i> , 2017 , 111, 122902	3-4	3
170	Electron delocalization and relaxation behavior in Cu-doped Bi ₂ Se ₃ films. <i>Physical Review B</i> , 2017 , 96,	3-3	10
169	Magnetization reversal of vortex states driven by out-of-plane field in the nanocomposite Co/Pd/Ru/Py disks. <i>Applied Physics Letters</i> , 2017 , 111, 022404	3-4	6
168	Wide-band microwave absorption by in situ tailoring morphology and optimized N-doping in nano-SiC. <i>Applied Physics Letters</i> , 2017 , 111, 223105	3-4	23
167	Direct observation of magnetic domain evolution in the vicinity of Verwey transition in Fe ₃ O ₄ thin films. <i>Applied Physics Letters</i> , 2017 , 111, 212401	3-4	5
166	Spinor polariton condensates under nonresonant pumping: Steady states and elementary excitations. <i>Physical Review B</i> , 2017 , 96,	3-3	8
165	Interface transformation for enhanced microwave-absorption properties of core double-shell nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 1224-1231	5-7	20

164	Effects of Nanoparticle Shape and Size on Optical Properties of LaB6. <i>Plasmonics</i> , 2016 , 11, 697-701	2.4	14
163	Size and morphology-controlled synthesis of Ni ₃ C nanoparticles in a TEG solution and their magnetic properties. <i>RSC Advances</i> , 2016 , 6, 81989-81994	3.7	21
162	Negative imaginary parts of complex permeability and microwave absorption performance of core double-shelled FeCo/C/Fe _{2.5} Cr _{0.5} Se ₄ nanocomposites. <i>RSC Advances</i> , 2016 , 6, 73020-73027	3.7	25
161	Hexagonal phase stabilization and magnetic orders of multiferroic Lu _{1-x} Sc _x FeO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	43
160	Non-equilibrium dynamics of an ultracold Bose gas under multi-pulsed interaction quenches. <i>Modern Physics Letters B</i> , 2016 , 30, 1650367	1.6	1
159	Spin-entropy origin and scaling behavior of the thermopower of LaBaCoO. <i>Ceramics International</i> , 2016 , 42, 6296-6300	5.1	3
158	Phase Structure and Magnetic Properties of Mn ₇₀ Ga _{30-x} Sn _x ($x = 5 \leq 30$) Alloy Ribbons. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-4	2	
157	Recent developments of rare-earth-free hard-magnetic materials. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1	3.6	26
156	Electrical properties of NiAs-type MnTe films with preferred crystallographic plane of (110). <i>Journal of Applied Physics</i> , 2016 , 119, 045304	2.5	7
155	Manganite/Cuprate Superlattice as Artificial Reentrant Spin Glass. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500676	4.6	19
154	Magnetic interactions in anisotropic Nd-Dy-Fe-Co-B/Fe multilayer magnets. <i>Journal of Applied Physics</i> , 2016 , 120, 163906	2.5	10
153	Synthesis of hierarchical cobalt dendrites based on nanoflake self-assembly and their microwave absorption properties. <i>RSC Advances</i> , 2016 , 6, 40844-40853	3.7	49
152	Magnetization reversal and coercivity of Fe ₃ Se ₄ nanowire arrays. <i>Journal of Applied Physics</i> , 2015 , 117, 17E702	2.5	6
151	Tailoring the magnetic anisotropy of Py/Ni bilayer films using well aligned atomic steps on Cu(001). <i>Scientific Reports</i> , 2015 , 5, 11055	4.9	9
150	Structure, Magnetic Properties, and Coercivity Mechanism of Rapidly Quenched Mn _x Ga Ribbons. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	5
149	Probing the flat band of optically trapped spin-orbital-coupled Bose gases using Bragg spectroscopy. <i>Physical Review A</i> , 2015 , 91,	2.6	12
148	Anomalous lattice vibrations of monolayer MoS ₂ probed by ultraviolet Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14561-8	3.6	31
147	Ferroelectrics. Observation of a periodic array of flux-closure quadrants in strained ferroelectric PbTiO ₃ films. <i>Science</i> , 2015 , 348, 547-51	33.3	308

146	Excellent microwave-absorption performances by matched magnetic/dielectric properties in double-shelled Co/C/polyaniline nanocomposites. <i>RSC Advances</i> , 2015 , 5, 40384-40392	3.7	70
145	Double resonance Raman modes in monolayer and few-layer MoTe ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	76
144	Linear magnetoresistance versus weak antilocalization effects in Bi ₂ Te ₃ . <i>Nano Research</i> , 2015 , 8, 2963-2969	3.6	36
143	Structure and electromagnetic properties of both regular and defective onion-like carbon nanoparticles. <i>Carbon</i> , 2015 , 95, 910-918	10.4	45
142	CoxNi _{100-x} nanoparticles encapsulated by curved graphite layers: controlled in situ metal-catalytic preparation and broadband microwave absorption. <i>Nanoscale</i> , 2015 , 7, 17312-9	7.7	82
141	Monodisperse water-soluble -Fe ₂ O ₃ /polyvinylpyrrolidone nanoparticles for a magnetic resonance imaging contrast agent. <i>Materials Research Innovations</i> , 2015 , 19, S58-S62	1.9	5
140	Interpreting core-level spectra of oxidizing phosphorene: Theory and experiment. <i>Physical Review B</i> , 2015 , 92,	3.3	31
139	Controllable Self-Assembled Microstructures of La _{0.7} Ca _{0.3} MnO ₃ :NiO Nanocomposite Thin Films and Their Tunable Functional Properties. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500302	4.6	15
138	A novel magnetic mesoporous silicon composite combining the function of magnetic target drug delivery and magnetic-induction hyperthermia. <i>Materials Technology</i> , 2015 , 30, 211-215	2.1	4
137	Large magnetocrystalline anisotropy of Fe _{3-x} Cr _x Se ₄ single crystals due to Cr substitution. <i>Europhysics Letters</i> , 2015 , 109, 37004	1.6	8
136	Electromagnetic wave absorption and dielectric-modulation of metallic perovskite lanthanum nickel oxide. <i>RSC Advances</i> , 2015 , 5, 14584-14591	3.7	18
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