

Yan Zhou

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223
papers

6,902
citations

42
h-index

77
g-index

244
ext. papers

8,989
ext. citations

4.5
avg, IF

6.49
L-index

#	Paper	IF	Citations
223	Direct observation of the skyrmion Hall effect. <i>Nature Physics</i> , 2017 , 13, 162-169	16.2	555
222	Magnetic skyrmion logic gates: conversion, duplication and merging of skyrmions. <i>Scientific Reports</i> , 2015 , 5, 9400	4.9	467
221	Magnetic bilayer-skyrmions without skyrmion Hall effect. <i>Nature Communications</i> , 2016 , 7, 10293	17.4	270
220	A reversible conversion between a skyrmion and a domain-wall pair in a junction geometry. <i>Nature Communications</i> , 2014 , 5, 4652	17.4	249
219	Molecular orientation and alignment by intense single-cycle THz pulses. <i>Physical Review Letters</i> , 2011 , 107, 163603	7.4	218
218	Antiferromagnetic Skyrmion: Stability, Creation and Manipulation. <i>Scientific Reports</i> , 2016 , 6, 24795	4.9	206
217	Precision Measurement of the Electron's Electric Dipole Moment Using Trapped Molecular Ions. <i>Physical Review Letters</i> , 2017 , 119, 153001	7.4	202
216	Current-driven dynamics and inhibition of the skyrmion Hall effect of ferrimagnetic skyrmions in GdFeCo films. <i>Nature Communications</i> , 2018 , 9, 959	17.4	197
215	Skyrmion-Electronics: An Overview and Outlook. <i>Proceedings of the IEEE</i> , 2016 , 104, 2040-2061	14.3	196
214	Magnetic skyrmion transistor: skyrmion motion in a voltage-gated nanotrack. <i>Scientific Reports</i> , 2015 , 5, 11369	4.9	158
213	Magnetic skyrmion-based synaptic devices. <i>Nanotechnology</i> , 2017 , 28, 08LT02	3.4	152
212	Dynamically stabilized magnetic skyrmions. <i>Nature Communications</i> , 2015 , 6, 8193	17.4	148
211	Skyrmion-based artificial synapses for neuromorphic computing. <i>Nature Electronics</i> , 2020 , 3, 148-155	28.4	130
210	Voltage Controlled Magnetic Skyrmion Motion for Racetrack Memory. <i>Scientific Reports</i> , 2016 , 6, 23164	4.9	130
209	Skyrmion-electronics: writing, deleting, reading and processing magnetic skyrmions toward spintronic applications. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 143001	1.8	112
208	Magnetic skyrmion-based artificial neuron device. <i>Nanotechnology</i> , 2017 , 28, 31LT01	3.4	105
207	Skyrmion dynamics in a frustrated ferromagnetic film and current-induced helicity locking-unlocking transition. <i>Nature Communications</i> , 2017 , 8, 1717	17.4	95

206	Spin-torque oscillator with tilted fixed layer magnetization. <i>Applied Physics Letters</i> , 2008 , 92, 262508	3.4	94
205	Skyrmion-Based Dynamic Magnonic Crystal. <i>Nano Letters</i> , 2015 , 15, 4029-36	11.5	82
204	Control and manipulation of a magnetic skyrmionium in nanostructures. <i>Physical Review B</i> , 2016 , 94,	3.3	81
203	Deterministic creation and deletion of a single magnetic skyrmion observed by direct time-resolved X-ray microscopy. <i>Nature Electronics</i> , 2018 , 1, 288-296	28.4	74
202	Mechanisms of imprint effect on ferroelectric thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 024111	2.5	71
201	Electric Field-Induced Creation and Directional Motion of Domain Walls and Skyrmion Bubbles. <i>Nano Letters</i> , 2019 , 19, 353-361	11.5	67
200	Phase-locked spin torque oscillators: Impact of device variability and time delay. <i>Journal of Applied Physics</i> , 2007 , 101, 09A503	2.5	61
199	Magnetic skyrmions: intriguing physics and new spintronic device concepts. <i>National Science Review</i> , 2019 , 6, 210-212	10.8	60
198	All-magnetic control of skyrmions in nanowires by a spin wave. <i>Nanotechnology</i> , 2015 , 26, 225701	3.4	59
197	An Improved Racetrack Structure for Transporting a Skyrmion. <i>Scientific Reports</i> , 2017 , 7, 45330	4.9	58
196	A compact skyrmionic leaky-integrate-fire spiking neuron device. <i>Nanoscale</i> , 2018 , 10, 6139-6146	7.7	57
195	Zero-field precession and hysteretic threshold currents in a spin torque nano device with tilted polarizer. <i>New Journal of Physics</i> , 2009 , 11, 103028	2.9	56
194	Electromagnetically induced absorption in a three-resonator metasurface system. <i>Scientific Reports</i> , 2015 , 5, 10737	4.9	55
193	Tunable intrinsic phase of a spin torque oscillator. <i>Applied Physics Letters</i> , 2008 , 92, 092505	3.4	55
192	Spin torque nano-oscillators based on antiferromagnetic skyrmions. <i>Applied Physics Letters</i> , 2019 , 114, 042402	3.4	53
191	Complementary Skyrmion Racetrack Memory With Voltage Manipulation. <i>IEEE Electron Device Letters</i> , 2016 , 37, 924-927	4.4	52
190	Perpendicular spin torque promotes synchronization of magnetic tunnel junction based spin torque oscillators. <i>Applied Physics Letters</i> , 2009 , 94, 112503	3.4	52
189	Thermally stable magnetic skyrmions in multilayer synthetic antiferromagnetic racetracks. <i>Physical Review B</i> , 2016 , 94,	3.3	51

188	Skyrmions in Magnetic Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16887-16892	9.5	49
187	Dynamics of the antiferromagnetic skyrmion induced by a magnetic anisotropy gradient. <i>Physical Review B</i> , 2018 , 98,	3.3	47
186	Intrinsic phase shift between a spin torque oscillator and an alternating current. <i>Journal of Applied Physics</i> , 2007 , 101, 09A510	2.5	45
185	Microwave generation of tilted-polarizer spin torque oscillator. <i>Journal of Applied Physics</i> , 2009 , 105, 07D116	2.5	44
184	Base-by-base dynamics in DNA hybridization probed by fluorescence correlation spectroscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16947-52	16.4	44
183	Negative capacitance transistors with monolayer black phosphorus. <i>Npj Quantum Materials</i> , 2016 , 1,	5	42
182	A retro Diels-Alder route to diphosphorus chemistry: molecular precursor synthesis, kinetics of P2 transfer to 1,3-dienes, and detection of P2 by molecular beam mass spectrometry. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13586-9	16.4	42
181	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. <i>Nature Communications</i> , 2020 , 11, 3577	17.4	40
180	Fiber optics for spin waves. <i>NPG Asia Materials</i> , 2016 , 8, e246-e246	10.3	40
179	Oscillatory transient regime in the forced dynamics of a nonlinear auto oscillator. <i>Physical Review B</i> , 2010 , 82,	3.3	38
178	Skyrmion domain wall collision and domain wall-gated skyrmion logic. <i>Physical Review B</i> , 2016 , 94,	3.3	37
177	Current-induced spin-wave excitation in Pt/YIG bilayer. <i>Physical Review B</i> , 2013 , 88,	3.3	35
176	Spin Torque Oscillators and RF Currents Modulation, Locking, and Ringing. <i>Integrated Ferroelectrics</i> , 2011 , 125, 147-154	0.8	34
175	Dynamics of a magnetic skyrmionium driven by spin waves. <i>Applied Physics Letters</i> , 2018 , 112, 142404	3.4	32
174	Manipulating and trapping skyrmions by magnetic field gradients. <i>New Journal of Physics</i> , 2017 , 19, 083008	10.8	32
173	High-efficient catalytic reduction of 4-nitrophenol based on reusable Ag nanoparticles/graphene-loading loofah sponge hybrid. <i>Nanotechnology</i> , 2018 , 29, 315702	3.4	32
172	Néel-type skyrmions and their current-induced motion in van der Waals ferromagnet-based heterostructures. <i>Physical Review B</i> , 2021 , 103,	3.3	30
171	Motion of skyrmions in nanowires driven by magnonic momentum-transfer forces. <i>New Journal of Physics</i> , 2017 , 19, 065001	2.9	29

170	High-topological-number magnetic skyrmions and topologically protected dissipative structure. <i>Physical Review B</i> , 2016 , 93,	3.3	29
169	Global attractors and the difficulty of synchronizing serial spin-torque oscillators. <i>Physical Review B</i> , 2010 , 82,	3.3	29
168	Parametric autoexcitation of magnetic droplet soliton perimeter modes. <i>Physical Review B</i> , 2017 , 95,	3.3	27
167	Chopping skyrmions from magnetic chiral domains with uniaxial stress in magnetic nanowire. <i>Applied Physics Letters</i> , 2017 , 111, 022406	3.4	27
166	Current-Induced Dynamics and Chaos of Antiferromagnetic Bimerons. <i>Physical Review Letters</i> , 2020 , 124, 037202	7.4	26
165	Skyrmion Racetrack Memory With Random Information Update/Deletion/Insertion. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 87-95	2.9	26
164	Possibility of S=1 spin liquids with fermionic spinons on triangular lattices. <i>Physical Review B</i> , 2010 , 81,	3.3	25
163	Magnetolectric effect of mildly conducting magnetostrictive/piezoelectric particulate composites. <i>Journal of Applied Physics</i> , 2006 , 100, 043910	2.5	25
162	Interfacial Dzialoshinskii-Moriya interaction induced nonreciprocity of spin waves in magnonic waveguides. <i>RSC Advances</i> , 2014 , 4, 46454-46459	3.7	24
161	Strain-controlled skyrmion creation and propagation in ferroelectric/ferromagnetic hybrid wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 455, 19-24	2.8	23
160	Fermionic theory for quantum antiferromagnets with spin $S > 1/2$. <i>Physical Review B</i> , 2010 , 82,	3.3	23
159	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. <i>Advanced Materials</i> , 2020 , 32, e1904815	2.4	23
158	Magnetic skyrmions for unconventional computing. <i>Materials Horizons</i> , 2021 , 8, 854-868	14.4	23
157	Current-Induced Dynamics of the Antiferromagnetic Skyrmion and Skyrmionium. <i>Physical Review Applied</i> , 2019 , 12,	4.3	22
156	Realization of Isolated and High-Density Skyrmions at Room Temperature in Uncompensated Synthetic Antiferromagnets. <i>Nano Letters</i> , 2020 , 20, 3299-3305	11.5	21
155	Skyrmion dynamics in width-varying nanotracks and implications for skyrmionic applications. <i>Applied Physics Letters</i> , 2017 , 111, 202406	3.4	21
154	Chirped-pulse millimeter-wave spectroscopy of Rydberg-Rydberg transitions. <i>Physical Review Letters</i> , 2011 , 107, 143001	7.4	21
153	Topology-Dependent Brownian Gyromotion of a Single Skyrmion. <i>Physical Review Letters</i> , 2020 , 125, 027206	7.4	20

152	Merging droplets in double nanocontact spin torque oscillators. <i>Physical Review B</i> , 2016 , 93,	3.3	20
151	General spin-order theory via gauge Landau-Lifshitz equation. <i>Physical Review B</i> , 2011 , 84,	3.3	20
150	Pseudo-spin-valve with L10 (111)-oriented FePt fixed layer. <i>Journal of Applied Physics</i> , 2009 , 105, 07E910.	2.5	20
149	Compact Modeling and Evaluation of Magnetic Skyrmion-Based Racetrack Memory. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1060-1068	2.9	19
148	Dynamics of an antiferromagnetic skyrmion in a racetrack with a defect. <i>Physical Review B</i> , 2019 , 100,	3.3	19
147	Capacitance Enhanced Synchronization of Pairs of Spin-Transfer Oscillators. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2421-2423	2	19
146	Fractional locking of spin-torque oscillator by injected ac current. <i>Physical Review B</i> , 2011 , 83,	3.3	19
145	Coupled perturbed heteroclinic cycles: Synchronization and dynamical behaviors of spin-torque oscillators. <i>Physical Review B</i> , 2011 , 84,	3.3	19
144	Voltage-Driven High-Speed Skyrmion Motion in a Skyrmion-Shift Device. <i>Physical Review Applied</i> , 2019 , 11,	4.3	19
143	Current-Driven Dynamics of Frustrated Skyrmions in a Synthetic Antiferromagnetic Bilayer. <i>Physical Review Applied</i> , 2019 , 11,	4.3	18
142	Geometrical and physical conditions for skyrmion stability in a nanowire. <i>AIP Advances</i> , 2015 , 5, 047141	1.5	18
141	Broadband velocity modulation spectroscopy of ThF ⁺ for use in a measurement of the electron electric dipole moment. <i>Journal of Molecular Spectroscopy</i> , 2016 , 319, 1-9	1.3	18
140	A skyrmion-based spin-torque nano-oscillator with enhanced edge. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 491, 165610	2.8	18
139	Skyrmion stability in nanocontact spin-transfer oscillators. <i>AIP Advances</i> , 2015 , 5, 097126	1.5	18
138	Direct detection of Rydberg millimeter-wave transitions in a buffer gas cooled molecular beam. <i>Chemical Physics Letters</i> , 2015 , 640, 124-136	2.5	18
137	Multiple synchronization attractors of serially connected spin-torque nanooscillators. <i>Physical Review B</i> , 2012 , 86,	3.3	18
136	Macrospin and micromagnetic studies of tilted polarizer spin-torque nano-oscillators. <i>Journal of Applied Physics</i> , 2012 , 112, 063903	2.5	18
135	Gutzwiller projected wave functions in the fermionic theory of S=1 spin chains. <i>Physical Review B</i> , 2012 , 85,	3.3	17

134	Chirped-pulse millimeter-wave spectroscopy: spectrum, dynamics, and manipulation of Rydberg-Rydberg transitions. <i>Journal of Chemical Physics</i> , 2013 , 138, 014301	3.9	17
133	Creation, transport and detection of imprinted magnetic solitons stabilized by spin-polarized current. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 455, 25-31	2.8	16
132	Interfacial Perpendicular Magnetic Anisotropy in Sub-20 nm Tunnel Junctions for Large-Capacity Spin-Transfer Torque Magnetic Random-Access Memory. <i>IEEE Magnetism Letters</i> , 2017 , 8, 1-5	1.6	15
131	A microwave field-driven transistor-like skyrmionic device with the microwave current-assisted skyrmion creation. <i>Journal of Applied Physics</i> , 2017 , 122, 153901	2.5	15
130	Static and dynamic properties of bimerons in a frustrated ferromagnetic monolayer. <i>Physical Review B</i> , 2020 , 101,	3.3	15
129	Field-free synthetic-ferromagnet spin torque oscillator. <i>Physical Review B</i> , 2013 , 87,	3.3	15
128	Magnetic Skyrmion Tubes as Nonplanar Magnonic Waveguides. <i>Physical Review Applied</i> , 2020 , 13,	4.3	14
127	Microwave field frequency and current density modulated skyrmion-chain in nanotrack. <i>Scientific Reports</i> , 2015 , 5, 15154	4.9	13
126	Micromagnetic study of switching boundary of a spin torque nanodevice. <i>Applied Physics Letters</i> , 2011 , 98, 102501	3.4	13
125	Modeling of magnetostriction in particulate composite materials. <i>IEEE Transactions on Magnetism</i> , 2005 , 41, 2071-2076	2	13
124	The influence of the edge effect on the skyrmion generation in a magnetic nanotrack. <i>AIP Advances</i> , 2017 , 7, 025105	1.5	12
123	Electrostriction of lead zirconate titanate/polyurethane composites. <i>Journal of Applied Physics</i> , 2005 , 97, 104112	2.5	12
122	A ferromagnetic skyrmion-based nano-oscillator with modified profile of Dzyaloshinskii-Moriya interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 496, 165912	2.8	12
121	Second-Scale Coherence Measured at the Quantum Projection Noise Limit with Hundreds of Molecular Ions. <i>Physical Review Letters</i> , 2020 , 124, 053201	7.4	11
120	Dynamics of an elliptical ferromagnetic skyrmion driven by the spin-orbit torque. <i>Applied Physics Letters</i> , 2020 , 116, 022407	3.4	11
119	Controllable transport of a skyrmion in a ferromagnetic narrow channel with voltage-controlled magnetic anisotropy. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 205002	3	11
118	Controlled skyrmion nucleation in extended magnetic layers using a nanocontact geometry. <i>Physical Review B</i> , 2017 , 96,	3.3	11
117	A spiking neuron constructed by the skyrmion-based spin torque nano-oscillator. <i>Applied Physics Letters</i> , 2020 , 116, 122402	3.4	10

116	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. <i>Science Advances</i> , 2020 , 6, eaay1876	14.3	10
115	Enhancement of photovoltaic effect in nanoscale polarization graded ferroelectrics. <i>Solar Energy</i> , 2012 , 86, 811-815	6.8	10
114	Magnetic domain wall engineering in a nanoscale permalloy junction. <i>Applied Physics Letters</i> , 2017 , 111, 072401	3.4	10
113	Paving Spin-Wave Fibers in Magnonic Nanocircuits Using Spin-Orbit Torque. <i>Physical Review Applied</i> , 2017 , 7,	4.3	10
112	Effect of the field-like spin torque on the switching current and switching speed of magnetic tunnel junction with perpendicularly magnetized free layers. <i>Journal of Applied Physics</i> , 2011 , 109, 023916	2.5	10
111	Tunneling magnetoresistance modulation in a magnetic tunnel junction with a ferroelectric barrier. <i>Nanotechnology</i> , 2011 , 22, 085202	3.4	10
110	Temperature and angular dependences of dynamic spin-polarized resonant tunneling in CoFeB/MgO/NiFe junctions. <i>Journal of Applied Physics</i> , 2008 , 103, 07A904	2.5	10
109	Electrical conductivity enhanced dielectric and ferroelectric properties of interface-coupled ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2006 , 100, 024101	2.5	10
108	Mechanism of bending electrostriction in thermoplastic polyurethane. <i>Journal of Applied Physics</i> , 2004 , 96, 294-299	2.5	10
107	Magnetic skyrmionium diode with a magnetic anisotropy voltage gating. <i>Applied Physics Letters</i> , 2020 , 117, 202401	3.4	10
106	Confinement and Protection of Skyrmions by Patterns of Modified Magnetic Properties. <i>Nano Letters</i> , 2021 , 21, 4320-4326	11.5	10
105	Antiferromagnetic skyrmion-based logic gates controlled by electric currents and fields. <i>Applied Physics Letters</i> , 2021 , 119, 062403	3.4	10
104	Current-driven skyrmionium in a frustrated magnetic system. <i>Applied Physics Letters</i> , 2020 , 117, 012403	3.4	9
103	Possible half-metallic phase in bilayer graphene: Calculations based on mean-field theory applied to a two-layer Hubbard model. <i>Physical Review B</i> , 2013 , 88,	3.3	8
102	Enhancement of dielectric and ferroelectric properties in ferroelectric superlattices. <i>Solid State Communications</i> , 2010 , 150, 1382-1385	1.6	8
101	Effects of polarization and permittivity gradients and other parameters on the anomalous vertical shift behavior of graded ferroelectric thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 034105	2.5	8
100	Bimeron clusters in chiral antiferromagnets. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	8
99	Evidence for ferromagnetic coupling at the doped topological insulator/ferrimagnetic insulator interface. <i>AIP Advances</i> , 2016 , 6, 055813	1.5	8

98	Dynamics of antiskyrmions induced by the voltage-controlled magnetic anisotropy gradient. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 496, 165922	2.8	8
97	Recent Progress of Fluxgate Magnetic Sensors: Basic Research and Application. <i>Sensors</i> , 2021 , 21,	3.8	8
96	Phase-locking of multiple magnetic droplets by a microwave magnetic field. <i>AIP Advances</i> , 2017 , 7, 056019	3.5	7
95	Impurity-limited quantum transport variability in magnetic tunnel junctions. <i>Frontiers of Physics</i> , 2017 , 12, 1	3.7	7
94	Manipulation of magnetic skyrmions in a locally modified synthetic antiferromagnetic racetrack. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 482, 155-159	2.8	7
93	Magnonic Band Structure in a Skyrmion Magnonic Crystal. <i>IEEE Transactions on Magnetism</i> , 2015 , 51, 1-4	2	7
92	Probing the Buried Magnetic Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5752-7	9.5	7
91	Direct single-shot observation of millimeter-wave superradiance in Rydberg-Rydberg transitions. <i>Physical Review A</i> , 2017 , 95,	2.6	7
90	Gutzwiller approach for elementary excitations in S= 1 antiferromagnetic chains. <i>New Journal of Physics</i> , 2014 , 16, 083031	2.9	7
89	A Comparative Cross-layer Study on Racetrack Memories. <i>ACM Journal on Emerging Technologies in Computing Systems</i> , 2020 , 16, 1-17	1.7	7
88	Complementary Skyrmion Racetrack Memory Enables Voltage-Controlled Local Data Update Functionality. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4667-4673	2.9	7
87	Visible and ultraviolet laser spectroscopy of ThF. <i>Journal of Molecular Spectroscopy</i> , 2019 , 358, 1-16	1.3	6
86	Enhanced skyrmion motion via strip domain wall. <i>Physical Review B</i> , 2020 , 101,	3.3	6
85	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020 , 116, 142404	3.4	6
84	A ferromagnetic skyrmion-based diode with a voltage-controlled potential barrier. <i>Nanoscale</i> , 2020 , 12, 9507-9516	7.7	6
83	Vortical structures for nanomagnetic memory induced by dipole-dipole interaction in monolayer disks. <i>Superlattices and Microstructures</i> , 2018 , 117, 495-502	2.8	6
82	Magnonic analog of relativistic Zitterbewegung in an antiferromagnetic spin chain. <i>Physical Review B</i> , 2017 , 96,	3.3	6
81	Dynamics of ferromagnetic bimerons driven by spin currents and magnetic fields. <i>Physical Review B</i> , 2020 , 102,	3.3	6

80	Spin-torque diode with tunable sensitivity and bandwidth by out-of-plane magnetic field. <i>Applied Physics Letters</i> , 2016 , 108, 232407	3.4	6
79	Current-controlled unidirectional edge-meron motion. <i>Journal of Applied Physics</i> , 2016 , 120, 203903	2.5	6
78	An achiral ferromagnetic/chiral antiferromagnetic bilayer system leading to controllable size and density of skyrmions. <i>Scientific Reports</i> , 2019 , 9, 2970	4.9	6
77	Generation and Hall effect of skyrmions enabled using nonmagnetic point contacts. <i>Physical Review B</i> , 2019 , 100,	3.3	6
76	Ultrafast field-free magnetization switching using bi-directional spin Hall current and antiferromagnetic interlayer exchange. <i>Applied Physics Letters</i> , 2019 , 114, 012403	3.4	6
75	Exchange bias study of sub-100 nm-diameter CoFeB/IrMn antidot and nanodot arrays fabricated by nanosphere lithography. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 2709-2714	2.3	5
74	Detection of HIV-1 antigen based on magnetic tunnel junction sensors. <i>Chinese Physics B</i> , 2020 , 29, 088701	0.1	5
73	Spin-Cherenkov effect in a magnetic nanostrip with interfacial Dzyaloshinskii-Moriya interaction. <i>Scientific Reports</i> , 2016 , 6, 25189	4.9	5
72	Directional Spin Wave in Spin-Torque Oscillators Induced by Interfacial Dzyaloshinskii-Moriya Interaction. <i>IEEE Magnetism Letters</i> , 2017 , 8, 1-4	1.6	5
71	A Comparative Study on Racetrack Memories: Domain Wall vs. Skyrmion 2018 ,		5
70	Robust phase shift keying modulation method for spin torque nano-oscillator. <i>Nanotechnology</i> , 2020 , 31, 375205	3.4	4
69	Dynamics of Magnetic Skyrmion Clusters Driven by Spin-Polarized Current With a Spatially Varied Polarization. <i>IEEE Magnetism Letters</i> , 2018 , 9, 1-5	1.6	4
68	Influence of quantum and thermal noise on spin-torque-driven magnetization switching. <i>Applied Physics Letters</i> , 2013 , 103, 022403	3.4	4
67	Spin-lattice dynamics simulation of external field effect on magnetic order of ferromagnetic iron. <i>AIP Advances</i> , 2014 , 4, 037110	1.5	4
66	Magneto-Electric Coupling in a Multiferroic Tunnel Junction Functioning as a Magnetic-Field-Effect Transistor. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 77-81	2.6	4
65	Dependence of polarization offset on driving frequency, film thickness and composition gradient in compositionally graded ferroelectric materials. <i>Journal of Electroceramics</i> , 2006 , 16, 541-544	1.5	4
64	Current-induced dynamics of skyrmion tubes in synthetic antiferromagnetic multilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	4
63	Magnetic Skyrmion Transport in a Nanotrack With Spatially Varying Damping and Non-Adiabatic Torque. <i>IEEE Transactions on Magnetism</i> , 2016 , 1-1	2	4

62	A frustrated bimeronium: Static structure and dynamics. <i>Applied Physics Letters</i> , 2021 , 118, 052411	3.4	4
61	Tuning Magnetic Droplets in Nanocontact Spin-Torque Oscillators Using Electric Fields. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
60	Magnetic-field-sensing mechanism based on dual-vortex motion and magnetic noise. <i>Journal of Applied Physics</i> , 2014 , 115, 17D142	2.5	3
59	Coherent laser-millimeter-wave interactions en route to coherent population transfer. <i>Journal of Chemical Physics</i> , 2017 , 147, 144201	3.9	3
58	Molecular Dynamics Simulation of Iron [A Review]. <i>Spin</i> , 2015 , 05, 1540007	1.3	3
57	Investigating the magnetovolume effect in isotropic body-centered-cubic iron using spin-lattice dynamics simulations. <i>AIP Advances</i> , 2014 , 4, 087123	1.5	3
56	Edge Effect on Thermally Excited Mag-Noise in Magnetic Tunnel Junction Sensors. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2831-2834	2	3
55	Cooperative effects in a dense Rydberg gas. <i>Molecular Physics</i> , 2012 , 110, 1909-1915	1.7	3
54	Unusual behavior of superconductivity induced by anisotropic structure in the ferromagnetic state. <i>Europhysics Letters</i> , 2006 , 74, 145-150	1.6	3
53	Controlled switching of the number of skyrmions in a magnetic nanodot by electric fields.. <i>Advanced Materials</i> , 2021 , e2107908	2.4	3
52	Skyrmions-based magnetic racetrack memory. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018 , 67, 137510	0.6	3
51	Field-angle and DC-bias dependence of spin-torque diode in giant magnetoresistive microstripe. <i>Applied Physics Letters</i> , 2016 , 109, 192402	3.4	3
50	Electric potential invariants and ions-in-molecules effective potentials for molecular Rydberg states. <i>Journal of Chemical Physics</i> , 2016 , 145, 234301	3.9	3
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