

Yan Zhou

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.

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	Dynamics of magnetic skyrmions under temperature gradients. <i>Applied Physics Letters</i> , 2022 , 120, 052403	3.4	0
222	Spectroscopy on the electron-electric-dipole-moment-sensitive states of ThF+. <i>Physical Review A</i> , 2022 , 105,	2.6	1
221	Dynamic properties of a ferromagnetic skyrmion in an in-plane magnetic field. <i>Journal of Applied Physics</i> , 2022 , 131, 073901	2.5	0
220	Tunable skyrmion-edge interaction in magnetic multilayers by interlayer exchange coupling. <i>AIP Advances</i> , 2022 , 12, 055210	1.5	0
219	Controlled switching of the number of skyrmions in a magnetic nanodot by electric fields.. <i>Advanced Materials</i> , 2021 , e2107908	24	3
218	Configurable pixelated skyrmions on nanoscale magnetic grids. <i>Communications Physics</i> , 2021 , 4,	5.4	1
217	Write Asymmetry of Spin-Orbit Torque Memory Induced by in-Plane Magnetic Fields. <i>IEEE Electron Device Letters</i> , 2021 , 1-1	4.4	1
216	Skyrmion Formation in Nanodisks Using Magnetic Force Microscopy Tip. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
215	A ferromagnetic skyrmion-based nano-oscillator with modified perpendicular magnetic anisotropy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 392, 127157	2.3	2
214	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
213	Current-induced dynamics of skyrmion tubes in synthetic antiferromagnetic multilayers. <i>Physical Review B</i> , 2021 , 103,	3.3	4
212	Confinement and Protection of Skyrmions by Patterns of Modified Magnetic Properties. <i>Nano Letters</i> , 2021 , 21, 4320-4326	11.5	10
211	Magnetic skyrmions for unconventional computing. <i>Materials Horizons</i> , 2021 , 8, 854-868	14.4	23
210	Antiferromagnetic Skyrmions and Bimerons. <i>Topics in Applied Physics</i> , 2021 , 441-457	0.5	
209	Skyrmions in ferrimagnets 2021 , 315-332		
208	Signal detection based on the chaotic motion of an antiferromagnetic domain wall. <i>Applied Physics Letters</i> , 2021 , 118, 012402	3.4	1
207	Recent Progress of Fluxgate Magnetic Sensors: Basic Research and Application. <i>Sensors</i> , 2021 , 21,	3.8	8

206	Polarization tunable Rashba effect in 2D LiAlTe ₂ . <i>Applied Physics Letters</i> , 2021 , 118, 062404	3.4	1
205	Amplifying spin waves along Néel domain wall by spin-orbit torque. <i>Applied Physics Letters</i> , 2021 , 118, 062405	3.4	0
204	A frustrated bimeronium: Static structure and dynamics. <i>Applied Physics Letters</i> , 2021 , 118, 052411	3.4	4
203	Interlayer coupling effect on skyrmion dynamics in synthetic antiferromagnets. <i>Applied Physics Letters</i> , 2021 , 118, 082403	3.4	0
202	Domain wall dynamics in ferromagnet/Ru/ferromagnet stacks with a wedged spacer. <i>Applied Physics Letters</i> , 2021 , 119, 022406	3.4	2
201	Antiferromagnetic skyrmion-based logic gates controlled by electric currents and fields. <i>Applied Physics Letters</i> , 2021 , 119, 062403	3.4	10
200	Conventional applications of skyrmions 2021 , 367-391		
199	Tuning Magnetic Droplets in Nanocontact Spin-Torque Oscillators Using Electric Fields. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
198	Robust phase shift keying modulation method for spin torque nano-oscillator. <i>Nanotechnology</i> , 2020 , 31, 375205	3.4	4
197	Detection of HIV-1 antigen based on magnetic tunnel junction sensors. <i>Chinese Physics B</i> , 2020 , 29, 088701	3.4	5
196	Enhanced skyrmion motion via strip domain wall. <i>Physical Review B</i> , 2020 , 101,	3.3	6
195	Skyrmion-based artificial synapses for neuromorphic computing. <i>Nature Electronics</i> , 2020 , 3, 148-155	28.4	130
194	Magnetic Skyrmion Tubes as Nonplanar Magnonic Waveguides. <i>Physical Review Applied</i> , 2020 , 13,	4.3	14
193	Direct visualization of magnetic domain wall motion in Nd-Fe-B magnets by alternating magnetic force microscopy using Co-GdO superparamagnetic tip. <i>Ultramicroscopy</i> , 2020 , 212, 112980	3.1	1
192	A spiking neuron constructed by the skyrmion-based spin torque nano-oscillator. <i>Applied Physics Letters</i> , 2020 , 116, 122402	3.4	10
191	Exploring the contribution of trapped magnetic flux on magnetization dynamics in thick Nb/Ni ₈₀ Fe ₂₀ /Nb trilayers. <i>Applied Physics Express</i> , 2020 , 13, 033002	2.4	2
190	Current-driven skyrmionium in a frustrated magnetic system. <i>Applied Physics Letters</i> , 2020 , 117, 012403	3.4	9
189	Topology-Dependent Brownian Gyromotion of a Single Skyrmion. <i>Physical Review Letters</i> , 2020 , 125, 027206	7.4	20

188	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
187	Topological damping Rashba spin-orbit torque in ballistic magnetic domain walls. <i>Physical Review B</i> , 2020 , 101,	3.3	1
186	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
185	Continuous temporal ion detection combined with time-gated imaging: Normalization over a large dynamic range. <i>Journal of Molecular Spectroscopy</i> , 2020 , 368, 111257	1.3	1
184	Current-Induced Dynamics and Chaos of Antiferromagnetic Bimerons. <i>Physical Review Letters</i> , 2020 , 124, 037202	7.4	26
183	Dynamics of an elliptical ferromagnetic skyrmion driven by the spin-orbit torque. <i>Applied Physics Letters</i> , 2020 , 116, 022407	3.4	11
182	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
181	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
180	Static and dynamic properties of bimerons in a frustrated ferromagnetic monolayer. <i>Physical Review B</i> , 2020 , 101,	3.3	15
179	A ferromagnetic skyrmion-based diode with a voltage-controlled potential barrier. <i>Nanoscale</i> , 2020 , 12, 9507-9516	7.7	6
178	Dynamics of ferromagnetic bimerons driven by spin currents and magnetic fields. <i>Physical Review B</i> , 2020 , 102,	3.3	6
177	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
176	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
175	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
174	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. <i>Advanced Materials</i> , 2020 , 32, e1904815	24	23
173	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
172	Bimeron clusters in chiral antiferromagnets. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	8
171	Magnetic skyrmionium diode with a magnetic anisotropy voltage gating. <i>Applied Physics Letters</i> , 2020 , 117, 202401	3.4	10

170	Realization of mutual synchronization of spin torque nano-oscillators under room temperature by noise reduction technique. <i>Applied Physics Letters</i> , 2020 , 117, 082404	3.4	2
169	Noise reduction of spin torque oscillator by phase-locked loop with combinational frequency tuning method. <i>Applied Physics Letters</i> , 2020 , 117, 072407	3.4	2
168	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
167	Scaling of the Rashba spin-orbit torque in magnetic domain walls. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165694	2.8	1
166	Dynamics of an antiferromagnetic skyrmion in a racetrack with a defect. <i>Physical Review B</i> , 2019 , 100,	3.3	19
165	Spin torque nano-oscillators based on antiferromagnetic skyrmions. <i>Applied Physics Letters</i> , 2019 , 114, 042402	3.4	53
164	Current-Driven Dynamics of Frustrated Skyrmions in a Synthetic Antiferromagnetic Bilayer. <i>Physical Review Applied</i> , 2019 , 11,	4.3	18
163	Visible and ultraviolet laser spectroscopy of ThF. <i>Journal of Molecular Spectroscopy</i> , 2019 , 358, 1-16	1.3	6
162	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
161	Magnetic Skyrmion Spectrum Under Voltage Excitation and its Linear Modulation. <i>Physical Review Applied</i> , 2019 , 12,	4.3	2
160	A skyrmion-based spin-torque nano-oscillator with enhanced edge. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 491, 165610	2.8	18
159	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
158	Generation and Hall effect of skyrmions enabled using nonmagnetic point contacts. <i>Physical Review B</i> , 2019 , 100,	3.3	6
157	Current-Induced Dynamics of the Antiferromagnetic Skyrmion and Skyrmionium. <i>Physical Review Applied</i> , 2019 , 12,	4.3	22
156	Voltage-Driven High-Speed Skyrmion Motion in a Skyrmion-Shift Device. <i>Physical Review Applied</i> , 2019 , 11,	4.3	19
155	Nd-Fe-B films with perpendicular magnetic anisotropy and extremely large room temperature coercivity. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 406-410	2.8	3
154	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
153	Magnetic skyrmions: intriguing physics and new spintronic device concepts. <i>National Science Review</i> , 2019 , 6, 210-212	10.8	60

152	Electric Field-Induced Creation and Directional Motion of Domain Walls and Skyrmion Bubbles. <i>Nano Letters</i> , 2019 , 19, 353-361	11.5	67
151	A compact skyrmionic leaky-integrate-fire spiking neuron device. <i>Nanoscale</i> , 2018 , 10, 6139-6146	7.7	57
150	Skyrmions in Magnetic Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16887-16892	9.5	49
149	Dynamics of a magnetic skyrmionium driven by spin waves. <i>Applied Physics Letters</i> , 2018 , 112, 142404	3.4	32
148	Skyrmion Racetrack Memory With Random Information Update/Deletion/Insertion. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 87-95	2.9	26
147	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
146	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
145	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
144	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
143	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
142	Current-induced instability of domain walls in cylindrical nanowires. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 015801	1.8	2
141	Dynamics of Magnetic Skyrmion Clusters Driven by Spin-Polarized Current With a Spatially Varied Polarization. <i>IEEE Magnetics Letters</i> , 2018 , 9, 1-5	1.6	4
140	Skyrmions-based magnetic racetrack memory. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018 , 67, 137510	0.6	3
139	Overview of magnetic skyrmion-based devices and applications. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018 , 67, 137505	0.6	2
138	Dynamics of a magnetic skyrmionium driven by a spin wave. 2018 ,		1
137	A Comparative Study on Racetrack Memories: Domain Wall vs. Skyrmion 2018 ,		5
136	Dynamics of the antiferromagnetic skyrmion induced by a magnetic anisotropy gradient. <i>Physical Review B</i> , 2018 , 98,	3.3	47
135	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

134	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
133	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
132	Magnetic skyrmion-based synaptic devices. <i>Nanotechnology</i> , 2017 , 28, 08LT02	3.4	152
131	Parametric autoexcitation of magnetic droplet soliton perimeter modes. <i>Physical Review B</i> , 2017 , 95,	3.3	27
130	The influence of the edge effect on the skyrmion generation in a magnetic nanotrack. <i>AIP Advances</i> , 2017 , 7, 025105	1.5	12
129	Motion and Switching of Dual-Vortex Cores in Elliptical Permalloy Nanodisk Stimulated by a Gaussian Magnetic Field Pulse. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-6	2	1
128	Phase-locking of multiple magnetic droplets by a microwave magnetic field. <i>AIP Advances</i> , 2017 , 7, 056019	3	7
127	Compact Modeling and Evaluation of Magnetic Skyrmion-Based Racetrack Memory. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1060-1068	2.9	19
126	Impurity-limited quantum transport variability in magnetic tunnel junctions. <i>Frontiers of Physics</i> , 2017 , 12, 1	3.7	7
125	Motion of skyrmions in nanowires driven by magnonic momentum-transfer forces. <i>New Journal of Physics</i> , 2017 , 19, 065001	2.9	29
124	Interfacial Perpendicular Magnetic Anisotropy in Sub-20 nm Tunnel Junctions for Large-Capacity Spin-Transfer Torque Magnetic Random-Access Memory. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	15
123	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
122	Magnetic skyrmion-based artificial neuron device. <i>Nanotechnology</i> , 2017 , 28, 31LT01	3.4	105
121	Reduced magnetic coercivity and switching field in NiFeCuMo/Ru/NiFeCuMo synthetic-ferrimagnetic nanodots. <i>Applied Surface Science</i> , 2017 , 410, 479-484	6.7	1
120	An Improved Racetrack Structure for Transporting a Skyrmion. <i>Scientific Reports</i> , 2017 , 7, 45330	4.9	58
119	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
118	Precision Measurement of the Electron's Electric Dipole Moment Using Trapped Molecular Ions. <i>Physical Review Letters</i> , 2017 , 119, 153001	7.4	202
117	Controlled skyrmion nucleation in extended magnetic layers using a nanocontact geometry. <i>Physical Review B</i> , 2017 , 96,	3.3	11

116	Magnonic analog of relativistic Zitterbewegung in an antiferromagnetic spin chain. <i>Physical Review B</i> , 2017 , 96,	3.3	6
115	Direct single-shot observation of millimeter-wave superradiance in Rydberg-Rydberg transitions. <i>Physical Review A</i> , 2017 , 95,	2.6	7
114	Magnetic domain wall engineering in a nanoscale permalloy junction. <i>Applied Physics Letters</i> , 2017 , 111, 072401	3.4	10
113	Manipulating and trapping skyrmions by magnetic field gradients. <i>New Journal of Physics</i> , 2017 , 19, 083008	3.3	32
112	Skyrmion dynamics in a frustrated ferromagnetic film and current-induced helicity locking-unlocking transition. <i>Nature Communications</i> , 2017 , 8, 1717	17.4	95
111	Skyrmion dynamics in width-varying nanotracks and implications for skyrmionic applications. <i>Applied Physics Letters</i> , 2017 , 111, 202406	3.4	21
110	Chopping skyrmions from magnetic chiral domains with uniaxial stress in magnetic nanowire. <i>Applied Physics Letters</i> , 2017 , 111, 022406	3.4	27
109	Paving Spin-Wave Fibers in Magnonic Nanocircuits Using Spin-Orbit Torque. <i>Physical Review Applied</i> , 2017 , 7,	4.3	10
108	Direct observation of the skyrmion Hall effect. <i>Nature Physics</i> , 2017 , 13, 162-169	16.2	555
107	Coherent laser-millimeter-wave interactions en route to coherent population transfer. <i>Journal of Chemical Physics</i> , 2017 , 147, 144201	3.9	3
106	Directional Spin Wave in Spin-Torque Oscillators Induced by Interfacial Dzyaloshinskii-Moriya Interaction. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-4	1.6	5
105	Voltage Controlled Magnetic Skyrmion Motion for Racetrack Memory. <i>Scientific Reports</i> , 2016 , 6, 23164	4.9	130
104	Skyrmion-Electronics: An Overview and Outlook. <i>Proceedings of the IEEE</i> , 2016 , 104, 2040-2061	14.3	196
103	Control and manipulation of a magnetic skyrmionium in nanostructures. <i>Physical Review B</i> , 2016 , 94,	3.3	81
102	High-topological-number magnetic skyrmions and topologically protected dissipative structure. <i>Physical Review B</i> , 2016 , 93,	3.3	29
101	Merging droplets in double nanocontact spin torque oscillators. <i>Physical Review B</i> , 2016 , 93,	3.3	20
100	Negative capacitance transistors with monolayer black phosphorus. <i>Npj Quantum Materials</i> , 2016 , 1,	5	42
99	Antiferromagnetic Skyrmion: Stability, Creation and Manipulation. <i>Scientific Reports</i> , 2016 , 6, 24795	4.9	206

98	Spin-Cherenkov effect in a magnetic nanostrip with interfacial Dzyaloshinskii-Moriya interaction. <i>Scientific Reports</i> , 2016 , 6, 25189	4.9	5
97	Complementary Skyrmion Racetrack Memory With Voltage Manipulation. <i>IEEE Electron Device Letters</i> , 2016 , 37, 924-927	4.4	52
96	Magnetic bilayer-skyrmions without skyrmion Hall effect. <i>Nature Communications</i> , 2016 , 7, 10293	17.4	270
95	Probing the Buried Magnetic Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5752-7	9.5	7
94	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
93	Performance Optimization of Spin-Torque Microwave Detectors with Material and Operational Parameters. <i>Journal of Nanotechnology</i> , 2016 , 2016, 1-11	3.5	1
92	Evidence for ferromagnetic coupling at the doped topological insulator/ferrimagnetic insulator interface. <i>AIP Advances</i> , 2016 , 6, 055813	1.5	8
91	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
90	Magnonic Band Structure of Domain Wall Magnonic Crystals. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1	2	2
89	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
88	Magnetic Skyrmion Transport in a Nanotrack With Spatially Varying Damping and Non-Adiabatic Torque. <i>IEEE Transactions on Magnetics</i> , 2016 , 1-1	2	4
87	Current-controlled unidirectional edge-meron motion. <i>Journal of Applied Physics</i> , 2016 , 120, 203903	2.5	6
86	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
85	Fiber optics for spin waves. <i>NPG Asia Materials</i> , 2016 , 8, e246-e246	10.3	40
84	Mode coupling in spin torque oscillators. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 414, 227-242	2.8	3
83	Domain wall motion driven by adiabatic spin transfer torque through excitation of nonlinear dynamics. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 206005	1.8	2
82	Thermally stable magnetic skyrmions in multilayer synthetic antiferromagnetic racetracks. <i>Physical Review B</i> , 2016 , 94,	3.3	51
81	Skyrmion domain wall collision and domain wall-gated skyrmion logic. <i>Physical Review B</i> , 2016 , 94,	3.3	37

80	Magnetic skyrmion transistor: skyrmion motion in a voltage-gated nanotrack. <i>Scientific Reports</i> , 2015 , 5, 11369	4.9	158
79	Theory and Applications of Spin Torque Nano-Oscillator: A Brief Review. <i>Solid State Phenomena</i> , 2015 , 232, 147-167	0.4	0
78	Magnonic Band Structure in a Skyrmion Magnonic Crystal. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	7
77	Magnetic skyrmion logic gates: conversion, duplication and merging of skyrmions. <i>Scientific Reports</i> , 2015 , 5, 9400	4.9	467
76	Spin-Torque Diode-Based Radio-Frequency Detector by Utilizing Tilted Fixed-Layer Magnetization and In-Plane Free-Layer Magnetization. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	2
75	Dynamically stabilized magnetic skyrmions. <i>Nature Communications</i> , 2015 , 6, 8193	17.4	148
74	Geometrical and physical conditions for skyrmion stability in a nanowire. <i>AIP Advances</i> , 2015 , 5, 047141	1.5	18
73	All-magnetic control of skyrmions in nanowire by spin wave 2015 ,		1
72	Microwave field frequency and current density modulated skyrmion-chain in nanotrack. <i>Scientific Reports</i> , 2015 , 5, 15154	4.9	13
71	Skyrmion stability in nanocontact spin-transfer oscillators. <i>AIP Advances</i> , 2015 , 5, 097126	1.5	18
70	Simulation of spin-torque diode microwave detectors. <i>EPJ Applied Physics</i> , 2015 , 69, 10603	1.1	
69	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
68	Skyrmion-Based Dynamic Magnonic Crystal. <i>Nano Letters</i> , 2015 , 15, 4029-36	11.5	82
67	Skyrmion Spin Structure of Exchange-Coupled Magnetic Core/Shell Nanodisk. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-3	2	0
66	Electromagnetically induced absorption in a three-resonator metasurface system. <i>Scientific Reports</i> , 2015 , 5, 10737	4.9	55
65	All-magnetic control of skyrmions in nanowires by a spin wave. <i>Nanotechnology</i> , 2015 , 26, 225701	3.4	59
64	Molecular Dynamics Simulation of Iron [A Review]. <i>Spin</i> , 2015 , 05, 1540007	1.3	3
63	Thermally Excited Mag-Noise in Ferromagnetic Ring Structures. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	

62	Interfacial Dzyaloshinskii-Moriya interaction induced nonreciprocity of spin waves in magnonic waveguides. <i>RSC Advances</i> , 2014 , 4, 46454-46459	3.7	24
61	Magnetic-field-sensing mechanism based on dual-vortex motion and magnetic noise. <i>Journal of Applied Physics</i> , 2014 , 115, 17D142	2.5	3
60	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
59	Injection Locking of Spin-Torque Nano-Oscillators. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-3	2	1
58	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
57	Linear Phase Tuning of Spin Torque Oscillators Using In-Plane Microwave Fields. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	1
56	Gutzwiller approach for elementary excitations in S= 1 antiferromagnetic chains. <i>New Journal of Physics</i> , 2014 , 16, 083031	2.9	7
55	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
54	Spin-lattice dynamics simulation of external field effect on magnetic order of ferromagnetic iron. <i>AIP Advances</i> , 2014 , 4, 037110	1.5	4
53	Capacitance effect on the oscillation and switching characteristics of spin torque oscillators. <i>Nanoscale Research Letters</i> , 2014 , 9, 597	5	
52	Influence of quantum and thermal noise on spin-torque-driven magnetization switching. <i>Applied Physics Letters</i> , 2013 , 103, 022403	3.4	4
51	Field-free synthetic-ferromagnet spin torque oscillator. <i>Physical Review B</i> , 2013 , 87,	3.3	15
50	Spin-Wave Excitation in Magnetic Insulator Thin Films by Spin-Transfer Torque. <i>Solid State Physics</i> , 2013 , 64, 29-51	2	2
49	Current-induced spin-wave excitation in Pt/YIG bilayer. <i>Physical Review B</i> , 2013 , 88,	3.3	35
48	Geometrical Dependence of Thermally Excited Mag-Noise Spatial Distribution in Magnetic Tunnel Junction Sensors. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3121-3124	2	
47	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
46	A dipole lattice model of switching characteristics in ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2013 , 114, 224108	2.5	1
45	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

44	Dynamic Control of Tunneling Conductance in Ferroelectric Tunnel Junctions. <i>Chinese Physics Letters</i> , 2013 , 30, 107701	1.8	1
43	Enhancement of photovoltaic effect in nanoscale polarization graded ferroelectrics. <i>Solar Energy</i> , 2012 , 86, 811-815	6.8	10
42	Multiple synchronization attractors of serially connected spin-torque nanooscillators. <i>Physical Review B</i> , 2012 , 86,	3.3	18
41	Gutzwiller projected wave functions in the fermionic theory of S=1 spin chains. <i>Physical Review B</i> , 2012 , 85,	3.3	17
40	Edge Effect on Thermally Excited Mag-Noise in Magnetic Tunnel Junction Sensors. <i>IEEE Transactions on Magnetism</i> , 2012 , 48, 2831-2834	2	3
39	Macrospin and micromagnetic studies of tilted polarizer spin-torque nano-oscillators. <i>Journal of Applied Physics</i> , 2012 , 112, 063903	2.5	18
38	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
37	Cooperative effects in a dense Rydberg gas. <i>Molecular Physics</i> , 2012 , 110, 1909-1915	1.7	3
36	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
35	Spin Torque Oscillators and RF Currents Modulation, Locking, and Ringing. <i>Integrated Ferroelectrics</i> , 2011 , 125, 147-154	0.8	34
34	General spin-order theory via gauge Landau-Lifshitz equation. <i>Physical Review B</i> , 2011 , 84,	3.3	20
33	Molecular orientation and alignment by intense single-cycle THz pulses. <i>Physical Review Letters</i> , 2011 , 107, 163603	7.4	218
32	Tunneling magnetoresistance modulation in a magnetic tunnel junction with a ferroelectric barrier. <i>Nanotechnology</i> , 2011 , 22, 085202	3.4	10
31	Chirped-pulse millimeter-wave spectroscopy of Rydberg-Rydberg transitions. <i>Physical Review Letters</i> , 2011 , 107, 143001	7.4	21
30	Fractional locking of spin-torque oscillator by injected ac current. <i>Physical Review B</i> , 2011 , 83,	3.3	19
29	Coupled perturbed heteroclinic cycles: Synchronization and dynamical behaviors of spin-torque oscillators. <i>Physical Review B</i> , 2011 , 84,	3.3	19
28	Micromagnetic study of switching boundary of a spin torque nanodevice. <i>Applied Physics Letters</i> , 2011 , 98, 102501	3.4	13
27	Possibility of S=1 spin liquids with fermionic spinons on triangular lattices. <i>Physical Review B</i> , 2010 , 81,	3.3	25

26	Oscillatory transient regime in the forced dynamics of a nonlinear auto oscillator. <i>Physical Review B</i> , 2010 , 82,	3.3	38
25	Fermionic theory for quantum antiferromagnets with spin $S > 12$. <i>Physical Review B</i> , 2010 , 82,	3.3	23
24	Global attractors and the difficulty of synchronizing serial spin-torque oscillators. <i>Physical Review B</i> , 2010 , 82,	3.3	29
23	Enhancement of dielectric and ferroelectric properties in ferroelectric superlattices. <i>Solid State Communications</i> , 2010 , 150, 1382-1385	1.6	8
22	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
21	Pseudo-spin-valve with L10 (111)-oriented FePt fixed layer. <i>Journal of Applied Physics</i> , 2009 , 105, 07E9102.5	2.5	20
20	Capacitance Enhanced Synchronization of Pairs of Spin-Transfer Oscillators. <i>IEEE Transactions on Magnetism</i> , 2009 , 45, 2421-2423	2	19
19	Capacitance Effect on Microwave Power Spectra of Spin-Torque Oscillator With Thermal Noise. <i>IEEE Transactions on Magnetism</i> , 2009 , 45, 2773-2776	2	2
18	Microwave generation of tilted-polarizer spin torque oscillator. <i>Journal of Applied Physics</i> , 2009 , 105, 07D116	2.5	44
17	Perpendicular spin torque promotes synchronization of magnetic tunnel junction based spin torque oscillators. <i>Applied Physics Letters</i> , 2009 , 94, 112503	3.4	52
16	Tunable intrinsic phase of a spin torque oscillator. <i>Applied Physics Letters</i> , 2008 , 92, 092505	3.4	55
15	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
14	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
13	Spin-torque oscillator with tilted fixed layer magnetization. <i>Applied Physics Letters</i> , 2008 , 92, 262508	3.4	94
12	Phase-locked spin torque oscillators: Impact of device variability and time delay. <i>Journal of Applied Physics</i> , 2007 , 101, 09A503	2.5	61
11	Intrinsic phase shift between a spin torque oscillator and an alternating current. <i>Journal of Applied Physics</i> , 2007 , 101, 09A510	2.5	45
10	Unusual behavior of superconductivity induced by anisotropic structure in the ferromagnetic state. <i>Europhysics Letters</i> , 2006 , 74, 145-150	1.6	3
9	Magnetoelectric effect of mildly conducting magnetostrictive/piezoelectric particulate composites. <i>Journal of Applied Physics</i> , 2006 , 100, 043910	2.5	25

8	Electrical conductivity enhanced dielectric and ferroelectric properties of interface-coupled ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2006 , 100, 024101	2.5	10
7	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
6	Electrostriction of lead zirconate titanate/polyurethane composites. <i>Journal of Applied Physics</i> , 2005 , 97, 104112	2.5	12
5	Modeling of magnetostriction in particulate composite materials. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2071-2076	2	13
4	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
3	Mechanisms of imprint effect on ferroelectric thin films. <i>Journal of Applied Physics</i> , 2005 , 98, 024111	2.5	71
2	Mechanism of bending electrostriction in thermoplastic polyurethane. <i>Journal of Applied Physics</i> , 2004 , 96, 294-299	2.5	10
1	Generation and manipulation of skyrmions and other topological spin structures with rare metals. <i>Rare Metals</i> , 1	5.5	0