

Xiu Feng Han

List of Publications by Citations

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253
papers

4,826
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37
h-index

54
g-index

284
ext. papers

6,097
ext. citations

5.5
avg, IF

5.62
L-index

#	Paper	IF	Citations
253	Room-Temperature Skyrmion Shift Device for Memory Application. <i>Nano Letters</i> , 2017 , 17, 261-268	11.5	160
252	Giant electrical modulation of magnetization in Co ₄₀ Fe ₄₀ B ₂₀ /Pb(Mg _{1/3} Nb _{2/3}) _{0.7} Ti _{0.3} O ₃ (011) heterostructure. <i>Scientific Reports</i> , 2014 , 4, 3727	4.9	146
251	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
250	The study of interaction between graphene and metals by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2011 , 109, 07C501	2.5	102
249	The perpendicular anisotropy of Co ₄₀ Fe ₄₀ B ₂₀ sandwiched between Ta and MgO layers and its application in CoFeB/MgO/CoFeB tunnel junction. <i>Applied Physics Letters</i> , 2011 , 99, 012502	3.4	84
248	N $\bar{1}$ -type skyrmion in WTe/FeGeTe van der Waals heterostructure. <i>Nature Communications</i> , 2020 , 11, 3860	17.4	81
247	80% tunneling magnetoresistance at room temperature for thin AlO _x barrier magnetic tunnel junction with CoFeB as free and reference layers. <i>Journal of Applied Physics</i> , 2007 , 101, 09B501	2.5	75
246	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , 2018 , 18, 980-986	11.5	68
245	Ferroelastic switching in a layered-perovskite thin film. <i>Nature Communications</i> , 2016 , 7, 10636	17.4	67
244	Room-Temperature Spin-Orbit Torque from Topological Surface States. <i>Physical Review Letters</i> , 2019 , 123, 207205	7.4	67
243	Field-Free Programmable Spin Logics via Chirality-Reversible Spin-Orbit Torque Switching. <i>Advanced Materials</i> , 2018 , 30, e1801318	24	63
242	High Spin Hall Conductivity in Large-Area Type-II Dirac Semimetal PtTe. <i>Advanced Materials</i> , 2020 , 32, e2000513	24	61
241	Observation of magnon-mediated electric current drag at room temperature. <i>Physical Review B</i> , 2016 , 93,	3.3	61
240	Nanoring magnetic tunnel junction and its application in magnetic random access memory demo devices with spin-polarized current switching (invited). <i>Journal of Applied Physics</i> , 2008 , 103, 07E933	2.5	60
239	Spin-orbit torque in MgO/CoFeB/Ta/CoFeB/MgO symmetric structure with interlayer antiferromagnetic coupling. <i>Physical Review B</i> , 2017 , 95,	3.3	59
238	Magnon Valve Effect between Two Magnetic Insulators. <i>Physical Review Letters</i> , 2018 , 120, 097205	7.4	59
237	Room temperature ferromagnetism in ultra-thin van der Waals crystals of 1T-CrTe ₂ . <i>Nano Research</i> , 2020 , 13, 3358-3363	10	59

236	Strain induced enhancement of perpendicular magnetic anisotropy in Co/graphene and Co/BN heterostructures. <i>Physical Review B</i> , 2017 , 95,	3.3	58
235	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , 2019 , 10, 243	17.4	58
234	Quantum tunneling of magnetization in a metal-organic framework. <i>Physical Review Letters</i> , 2014 , 112, 017202	7.4	57
233	Patterned nanoring magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 122511	3.4	56
232	Spin gapless semiconductor like Ti ₂ MnAl film as a new candidate for spintronics application. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 641-645	2.5	54
231	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018 , 9, 3612	17.4	53
230	Magnetic switching of ferromagnetic nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 032505	3.4	52
229	Temperature dependence of giant tunnel magnetoresistance in epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 78,	3.3	51
228	Spinel oxides: π spin-filter barrier for a class of magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 100, 222401	3.4	49
227	Spin-Orbit Torque Switching of a Nearly Compensated Ferrimagnet by Topological Surface States. <i>Advanced Materials</i> , 2019 , 31, e1901681	24	48
226	Programmable Spin Logic Based on Spin Hall Effect in a Single Device. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600282	6.4	47
225	Large and robust electrical spin injection into GaAs at zero magnetic field using an ultrathin CoFeB/MgO injector. <i>Physical Review B</i> , 2014 , 90,	3.3	47
224	Spin-orbit torque switching in a T-type magnetic configuration with current orthogonal to easy axes. <i>Nature Communications</i> , 2019 , 10, 233	17.4	45
223	Field-free spin Hall effect driven magnetization switching in Pd/Co/IrMn exchange coupling system. <i>Applied Physics Letters</i> , 2016 , 109, 132402	3.4	43
222	Anatomy of Skyrmionic Textures in Magnetic Multilayers. <i>Advanced Materials</i> , 2019 , 31, e1807683	24	41
221	Influence of cobalt doping on structural and magnetic properties of BiFeO ₃ nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	41
220	Magnetic tunnel junction sensor with Co/Pt perpendicular anisotropy ferromagnetic layer. <i>Applied Physics Letters</i> , 2009 , 94, 172902	3.4	41
219	Giant Enhancements of Perpendicular Magnetic Anisotropy and Spin-Orbit Torque by a MoS Layer. <i>Advanced Materials</i> , 2019 , 31, e1900776	24	40

218	Scaling relation between anomalous Nernst and Hall effect in [Pt/Co] _n multilayers. <i>Physical Review B</i> , 2016 , 93,	3-3	39
217	Large spin-orbit torque efficiency enhanced by magnetic structure of collinear antiferromagnet IrMn. <i>Science Advances</i> , 2019 , 5, eaau6696	14-3	37
216	Temperature dependent magnetic properties of Co nanowires and nanotubes prepared by electrodeposition method. <i>Journal of Applied Physics</i> , 2011 , 109, 07A331	2-5	37
215	Curvature-enhanced Spin-orbit Coupling and Spinterface Effect in Fullerene-based Spin Valves. <i>Scientific Reports</i> , 2016 , 6, 19461	4-9	37
214	Electrical switching of perpendicular magnetization in a single ferromagnetic layer. <i>Physical Review B</i> , 2020 , 101,	3-3	36
213	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. <i>Physical Review Letters</i> , 2020 , 124, 027203	7-4	36
212	Electrical control over perpendicular magnetization switching driven by spin-orbit torques. <i>Physical Review B</i> , 2016 , 94,	3-3	36
211	Creating zero-field skyrmions in exchange-biased multilayers through X-ray illumination. <i>Nature Communications</i> , 2020 , 11, 949	17-4	34
210	First-principles theory of quantum well resonance in double barrier magnetic tunnel junctions. <i>Physical Review Letters</i> , 2006 , 97, 087210	7-4	33
209	Spatially Resolved Ferroelectric Domain-Switching-Controlled Magnetism in CoFeB/Pb(MgNb)TiO Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2642-2649	9-5	32
208	Chemical diffusion: Another factor affecting the magnetoresistance ratio in Ta/CoFeB/MgO/CoFeB/Ta magnetic tunnel junction. <i>Applied Physics Letters</i> , 2012 , 101, 012406	3-4	32
207	Spin-dependent tunneling spectroscopy for interface characterization of epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2010 , 81,	3-3	32
206	Tunneling anisotropic magnetoresistance driven by magnetic phase transition. <i>Nature Communications</i> , 2017 , 8, 449	17-4	31
205	Long-Range Phase Coherence in Double-Barrier Magnetic Tunnel Junctions with a Large Thick Metallic Quantum Well. <i>Physical Review Letters</i> , 2015 , 115, 157204	7-4	30
204	Spin-orbit torques: Materials, physics, and devices. <i>Applied Physics Letters</i> , 2021 , 118, 120502	3-4	30
203	Spin-orbit torque switching in perpendicular Y3Fe5O12/Pt bilayer. <i>Applied Physics Letters</i> , 2019 , 114, 192409	3-4	29
202	Strategy for Fabricating Wafer-Scale Platinum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8202-8209	9-5	29
201	Electric-Field Control of Magnetism in Co40Fe40B20/(1-x)Pb(Mg1/3Nb2/3)O3-xPbTiO3 Multiferroic Heterostructures with Different Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3784-91	9-5	29

200	Observation of pure inverse spin Hall effect in ferromagnetic metals via ferromagnetic/antiferromagnetic exchange-bias structures. <i>Physical Review B</i> , 2015 , 92,	3.3	29
199	Synthesis and magnetic characterization of Co-NiO-Ni core-shell nanotube arrays. <i>Journal of Applied Physics</i> , 2011 , 110, 073912	2.5	29
198	Temperature dependence of resistance in epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2009 , 95, 052506	3.4	29
197	Strong Electrical Manipulation of SpinOrbit Torque in Ferromagnetic Heterostructures. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600219	6.4	29
196	Three-Dimensional Dynamics of a Magnetic Hopfion Driven by Spin Transfer Torque. <i>Physical Review Letters</i> , 2020 , 124, 127204	7.4	27
195	Large magnetic anisotropy and strain induced enhancement of magnetic anisotropy in monolayer TaTe. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24341-24347	3.6	27
194	First-principles study of Fe/MgO based magnetic tunnel junctions with Mg interlayers. <i>Physical Review B</i> , 2010 , 82,	3.3	27
193	Magnetic proximity effect at the molecular scale: First-principles calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	27
192	Spatially Resolved Electric-Field Manipulation of Magnetism for CoFeB Mesoscopic Discs on Ferroelectrics. <i>Advanced Functional Materials</i> , 2018 , 28, 1706448	15.6	26
191	Organic magnetic tunnel junctions: The role of metal-molecule interface. <i>Physical Review B</i> , 2012 , 86,	3.3	26
190	Oscillatory tunnel magnetoresistance in double barrier magnetic tunnel junctions. <i>Physical Review B</i> , 2005 , 72,	3.3	26
189	Enhanced exchange bias and improved ferromagnetic properties in Permalloy-BiFe _{0.95} Co _{0.05} O ₃ core-shell nanostructures. <i>Scientific Reports</i> , 2015 , 5, 18203	4.9	26
188	Perpendicular anisotropy dependence of oscillatory interlayer coupling behavior in [Pt/Co] ₅ /Ru/[Co/Pt] ₅ multilayers. <i>Journal of Applied Physics</i> , 2008 , 104, 023911	2.5	25
187	Electrical spin injection into GaAs based light emitting diodes using perpendicular magnetic tunnel junction-type spin injector. <i>Applied Physics Letters</i> , 2016 , 108, 152404	3.4	25
186	Exchange-biased hybrid ferromagnetic-multiferroic core-shell nanostructures. <i>Nanoscale</i> , 2014 , 6, 7215-7217	2.7	24
185	Magnetoelastic Anisotropy Induced Effects on Field and Temperature Dependent Magnetization Reversal of Ni Nanowires and Nanotubes. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011 , 24, 785-792	1.5	24
184	1/f noise in MgO double-barrier magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2011 , 98, 112504	3.4	24
183	Effects of current on nanoscale ring-shaped magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 77,	3.3	24

182	Magnon valves based on YIG/NiO/YIG all-insulating magnon junctions. <i>Physical Review B</i> , 2018 , 98,	3.3	24
181	Temperature-dependent Mn-diffusion modes in CoFeB- and CoFe-based magnetic tunnel junctions: Electron-microscopy studies. <i>Physical Review B</i> , 2007 , 75,	3.3	23
180	In-plane current-driven spin-orbit torque switching in perpendicularly magnetized films with enhanced thermal tolerance. <i>Applied Physics Letters</i> , 2016 , 108, 212406	3.4	23
179	Deterministic Spin-Orbit Torque Switching by a Light-Metal Insertion. <i>Nano Letters</i> , 2020 , 20, 3703-3709	11.5	22
178	Controlling spin-dependent tunneling by bandgap tuning in epitaxial rocksalt MgZnO films. <i>Scientific Reports</i> , 2014 , 4, 7277	4.9	22
177	Effect of Co interlayers in Fe/MgO/Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2008 , 93, 172503	3.4	22
176	Current-induced multiple spin structures in 100 nm ring magnetic tunnel junctions. <i>Physical Review B</i> , 2008 , 77,	3.3	22
175	MgO(001) barrier based magnetic tunnel junctions and their device applications. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 29-60	3.6	21
174	Thickness dependence of anomalous Nernst coefficient and longitudinal spin Seebeck effect in ferromagnetic NiFe films. <i>Scientific Reports</i> , 2017 , 7, 6175	4.9	21
173	Large extraordinary Hall effect in [Pt/Co]5/Ru/[Co/Pt]5 multilayers. <i>Physical Review B</i> , 2010 , 81,	3.3	21
172	Effect of external magnetic field on magnetic properties of CoPt nanotubes and nanowires. <i>Journal of Applied Physics</i> , 2011 , 109, 07E157	2.5	21
171	Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures. <i>Nanoscale</i> , 2016 , 8, 6064-70	7.7	20
170	Tunneling magnetoresistance in Fe ₃ Si/MgO/Fe ₃ Si(001) magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2014 , 104, 172406	3.4	20
169	Experimental demonstration of programmable multi-functional spin logic cell based on spin Hall effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 428, 401-405	2.8	19
168	First-principles study of perpendicular magnetic anisotropy in ferrimagnetic D022-Mn ₃ X (X = Ga, Ge) on MgO and SrTiO ₃ . <i>Applied Physics Letters</i> , 2018 , 112, 142403	3.4	19
167	Noise suppression and sensitivity manipulation of magnetic tunnel junction sensors with soft magnetic Co _{70.5} Fe _{4.5} Si ₁₅ B ₁₀ layer. <i>Journal of Applied Physics</i> , 2017 , 122, 113903	2.5	18
166	Magnetoresistance effect in antiferromagnet/nonmagnet/antiferromagnet multilayers. <i>Applied Physics Letters</i> , 2009 , 95, 152512	3.4	18
165	Nonmetallic Atoms Induced Magnetic Anisotropy in Monolayer Chromium Trihalides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 691-697	3.8	18

164	Strain controlling transport properties of heterostructure composed of monolayer CrI ₃ . <i>Applied Physics Letters</i> , 2019 , 114, 192405	3-4	17
163	Characterization of Spin-Orbit Torque Efficiency in Magnetic Heterostructures with Perpendicular Magnetic Anisotropy via Spin-Torque Ferromagnetic Resonance. <i>Physical Review Applied</i> , 2020 , 13,	4-3	17
162	Polarization-Mediated Thermal Stability of Metal/Oxide Heterointerface. <i>Advanced Materials</i> , 2015 , 27, 6934-8	24	17
161	Junction resistance, tunnel magnetoresistance ratio, and spin-transfer torque in Zn-doped magnetic tunnel junctions. <i>Physical Review B</i> , 2012 , 85,	3-3	17
160	Giant Coulomb blockade magnetoresistance in magnetic tunnel junctions with a granular layer. <i>Physical Review B</i> , 2010 , 81,	3-3	17
159	Effect of annealing on the magnetic tunnel junction with Co/Pt perpendicular anisotropy ferromagnetic multilayers. <i>Journal of Applied Physics</i> , 2010 , 107, 09C711	2-5	17
158	Room temperature ferromagnetism in Sn _{1-x} V _x O ₂ films prepared by sol-gel method. <i>Journal of Applied Physics</i> , 2008 , 104, 123909	2-5	17
157	Effect of current processing on the transport property of the La _{0.67} Ca _{0.33} MnO ₃ film. <i>Applied Physics Letters</i> , 2005 , 86, 242507	3-4	17
156	All-electrical manipulation of magnetization in magnetic tunnel junction via spin-orbit torque. <i>Applied Physics Letters</i> , 2020 , 116, 162401	3-4	17
155	Controllable synthesis of ferromagnetic-antiferromagnetic core-shell NWs with tunable magnetic properties. <i>Nanoscale</i> , 2017 , 9, 5694-5700	7-7	16
154	First-principles study of MnAl for its application in MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017 , 110, 252403	3-4	16
153	Perpendicular magnetic anisotropy in Ta Co ₄₀ Fe ₄₀ B ₂₀ MgAl ₂ O ₄ structures and perpendicular CoFeB MgAl ₂ O ₄ CoFeB magnetic tunnel junction. <i>Applied Physics Letters</i> , 2014 , 105, 102407	3-4	16
152	Current-induced magnetization switching in a microscale ring-shaped magnetic tunnel junction. <i>Physical Review B</i> , 2008 , 77,	3-3	15
151	Four distinct resistive states in van der Waals full magnetic 1T-VSe ₂ /CrI ₃ /1T-VSe ₂ tunnel junction. <i>Applied Surface Science</i> , 2020 , 505, 144648	6-7	15
150	Spin-Torque Ferromagnetic Resonance in W/CoFeB/W/CoFeB/MgO Stacks. <i>Physical Review Applied</i> , 2018 , 10,	4-3	15
149	Ultrahigh Tunneling-Magnetoresistance Ratios in Nitride-Based Perpendicular Magnetic Tunnel Junctions from First Principles. <i>Physical Review Applied</i> , 2018 , 9,	4-3	15
148	Electric-field control of CoFeB/IrMn exchange bias system. <i>Journal of Applied Physics</i> , 2012 , 112, 064120	2-5	14
147	Electron Beam Lithography of Magnetic Skyrmions. <i>Advanced Materials</i> , 2020 , 32, e2003003	24	14

146	Large magnetic anisotropy and its strain modulation in two-dimensional intrinsic ferromagnetic monolayer RuO and OsO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28162-28168	3.6	14
145	Study of spin-orbit torque induced magnetization switching in synthetic antiferromagnet with ultrathin Ta spacer layer. <i>Applied Physics Letters</i> , 2018 , 113, 162402	3.4	14
144	A nonlocal spin Hall magnetoresistance in a platinum layer deposited on a magnon junction. <i>Nature Electronics</i> , 2020 , 3, 304-308	28.4	13
143	Electrical Initialization of Electron and Nuclear Spins in a Single Quantum Dot at Zero Magnetic Field. <i>Nano Letters</i> , 2018 , 18, 2381-2386	11.5	13
142	Atomic-scale understanding of high thermal stability of the Mo/CoFeB/MgO spin injector for spin-injection in remanence. <i>Nanoscale</i> , 2018 , 10, 10213-10220	7.7	13
141	Piezoelectric enhancement of giant magnetoresistance in spin-valves with different magnetic anisotropies. <i>Journal of Applied Physics</i> , 2013 , 113, 023911	2.5	13
140	Exchange-bias like hysteretic magnetoelectric-coupling of as-grown synthetic antiferromagnetic structures. <i>Applied Physics Letters</i> , 2012 , 101, 082414	3.4	13
139	Magnetic Properties of Exchange-Biased $[\text{Co}/\text{Pt}]_n$ Multilayer With Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1401-1404	2	13
138	Fabrication and magnetic characterization of Co x Pt1-x nanowire arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 687-691	2.6	13
137	Thermal stability of Ir-MnO ₂ -Fe-BAl-O ₂ -Fe-B tunnel junctions. <i>Journal of Applied Physics</i> , 2005 , 98, 113710	2.5	13
136	Determining spin-torque efficiency in ferromagnetic metals via spin-torque ferromagnetic resonance. <i>Physical Review B</i> , 2020 , 101,	3.3	12
135	Record thermopower found in an IrMn-based spintronic stack. <i>Nature Communications</i> , 2020 , 11, 2023	17.4	12
134	Ferroelectric-domain-controlled magnetic anisotropy in Co ₄₀ Fe ₄₀ B ₂₀ /YMnO ₃ multiferroic heterostructure. <i>Applied Physics Letters</i> , 2013 , 102, 102906	3.4	12
133	Magnetic anisotropy and magnetization reversal in Co/Cu multilayers nanowires. <i>Journal of Applied Physics</i> , 2012 , 111, 07C119	2.5	12
132	Nanoelliptic Ring-Shaped Magnetic Tunnel Junction and Its Application in MRAM Design With Spin-Polarized Current Switching. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2957-2961	2	12
131	Superparamagnetism in MgO-based magnetic tunnel junctions with a thin pinned ferromagnetic electrode. <i>Physical Review B</i> , 2010 , 81,	3.3	12
130	Inverse and oscillatory magnetoresistance in Fe(001)/MgO/Cr/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2010 , 82,	3.3	12
129	Evidence for magnon excitation contribution to the magnetoresistance behavior during thermal annealing in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Physical Review B</i> , 2011 , 83,	3.3	12

128	Tuning asymmetry parameter of Fano resonance of spoof surface plasmons by modes coupling. <i>Applied Physics Letters</i> , 2012 , 100, 131110	3.4	12
127	Formation and magnetic properties of novel compounds Tb ₃ (Fe _{1-x} V _x) ₂₉ . <i>Journal of Applied Physics</i> , 1997 , 81, 3248-3252	2.5	12
126	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , 2021 , 12, 6251	17.4	12
125	Coherent Resonant Tunneling through Double Metallic Quantum Well States. <i>Nano Letters</i> , 2019 , 19, 3019-3026	11.5	11
124	Magnetic asymmetry induced anomalous spin-orbit torque in IrMn. <i>Physical Review B</i> , 2020 , 101,	3.3	11
123	Diameter-dependent multiferroic functionality in hybrid core/shell NWs. <i>Nanoscale</i> , 2016 , 8, 14956-64	7.7	11
122	Improved tunneling magnetoresistance in (Ga,Mn)As/AlO _x /CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2011 , 98, 262501	3.4	11
121	Enhanced tunnel magnetoresistance in fully epitaxial ZnO:Co-based magnetic tunnel junctions with Mg-doped ZnO barrier. <i>Applied Physics Letters</i> , 2012 , 100, 132406	3.4	11
120	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. <i>Nanomaterials</i> , 2016 , 6,	5.4	11
119	Observation of large anomalous Nernst effect in 2D layered materials Fe ₃ GeTe ₂ . <i>Applied Physics Letters</i> , 2019 , 115, 212402	3.4	11
118	ELECTRIC-FIELD CONTROL OF GIANT MAGNETORESISTANCE IN SPIN-VALVES. <i>Spin</i> , 2012 , 02, 1250006	1.3	10
117	Field sensing in MgO double barrier magnetic tunnel junctions with a superparamagnetic Co ₅₀ Fe ₅₀ free layer. <i>Journal of Applied Physics</i> , 2012 , 111, 113906	2.5	10
116	Annealing temperature dependence of exchange bias in BiFeO ₃ /CoFe bilayers. <i>Journal of Applied Physics</i> , 2012 , 111, 07D908	2.5	10
115	High inverted tunneling magnetoresistance in MgO-based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 102505	3.4	10
114	Ultrahigh tunneling magnetoresistance in van der Waals and lateral magnetic tunnel junctions formed by intrinsic ferromagnets Li _{0.5} CrI ₃ and CrI ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 022412	3.4	10
113	Post magnetic field annealing effect on magnetic and structural properties of Co ₈₀ Pt ₂₀ nanowires and nanotubes fabricated by electrochemical method. <i>Journal of Applied Physics</i> , 2014 , 115, 17A762	2.5	9
112	Manipulation of magnetization reversal of Ni ₈₁ Fe ₁₉ nanoellipse arrays by tuning the shape anisotropy and the magnetostatic interactions. <i>Journal of Applied Physics</i> , 2012 , 111, 07B909	2.5	9
111	Evidence of Pure Spin-Current Generated by Spin Pumping in Interface-Localized States in Hybrid Metal-Silicon-Metal Vertical Structures. <i>Nano Letters</i> , 2019 , 19, 90-99	11.5	9

110	NBl-Type Elliptical Skyrmions in a Laterally Asymmetric Magnetic Multilayer. <i>Advanced Materials</i> , 2021 , 33, e2006924	24	9
109	Manipulation of magnetization switching and tunnel magnetoresistance via temperature and voltage control. <i>Scientific Reports</i> , 2015 , 5, 18269	4.9	8
108	Nanotube wall thickness dependent magnetization reversal properties of NiFe nanotubes. <i>Journal of Applied Physics</i> , 2013 , 113, 024315	2.5	8
107	Transport Properties in Sputtered CoFeB/MgAl ₂ O ₄ /CoFeB Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	8
106	Nonreciprocal coherent coupling of nanomagnets by exchange spin waves. <i>Nano Research</i> , 2021 , 14, 2133	10	8
105	Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 090913	1.4	7
104	Fabrication and magnetic properties of La-X (X = Co, Ni, and Fe) nanotube arrays prepared by electrodeposition methods. <i>Journal of Applied Physics</i> , 2013 , 114, 054303	2.5	7
103	Spin Hall Magnetoresistance in CoFe ₂ O ₄ /Pt Films. <i>IEEE Transactions on Magnetics</i> , 2015 , 51, 1-4	2	7
102	ORGANIC SPINTRONICS: PAST, PRESENT AND FUTURE. <i>Spin</i> , 2014 , 04, 1440013	1.3	7
101	Magnetization reversal and enhanced tunnel magnetoresistance ratio in perpendicular magnetic tunnel junctions based on exchange spring electrodes. <i>Journal of Applied Physics</i> , 2013 , 113, 133906	2.5	7
100	Current-induced butterfly shaped domains and magnetization switching in magnetic tunnel junctions. <i>Science and Technology of Advanced Materials</i> , 2005 , 6, 784-788	7.1	7
99	Field-Free SpinOrbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2109455	15.6	7
98	Evidence of magnetization switching by anomalous spin Hall torque in NiFe. <i>Physical Review B</i> , 2020 , 101,	3.3	7
97	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. <i>Physical Review Applied</i> , 2020 , 13,	4.3	6
96	Origin of the large voltage-controlled magnetic anisotropy in a Cr/Fe/MgO junction with an ultrathin Fe layer: First-principles investigation. <i>Physical Review B</i> , 2020 , 101,	3.3	6
95	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
94	High-frequency switching of magnetic bistability in an asymmetric double disk nanostructure. <i>Applied Physics Letters</i> , 2014 , 104, 112405	3.4	6
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