

Hyunsoo Yang

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.

224
papers

7,413
citations

48
h-index

78
g-index

238
ext. papers

9,228
ext. citations

7.1
avg, IF

6.15
L-index

#	Paper	IF	Citations
224	Ferrimagnetic spintronics.. <i>Nature Materials</i> , 2022 , 21, 24-34	27	25
223	Magnon- versus Electron-Mediated Spin-Transfer Torque Exerted by Spin Current across an Antiferromagnetic Insulator to Switch the Magnetization of an Adjacent Ferromagnetic Metal. <i>Physical Review Applied</i> , 2021 , 15,	4.3	6
222	Interplay between superconductivity and the Kondo effect on magnetic nanodots. <i>Applied Physics Letters</i> , 2021 , 118, 152407	3.4	1
221	Composition dependence of spin-orbit torques in PtRh/ferromagnet heterostructures. <i>APL Materials</i> , 2021 , 9, 041105	5.7	3
220	Electrically connected spin-torque oscillators array for 2.4 GHz WiFi band transmission and energy harvesting. <i>Nature Communications</i> , 2021 , 12, 2924	17.4	13
219	Observation of the Out-of-Plane Polarized Spin Current from CVD Grown WTe ₂ . <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100038	4.3	6
218	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-39	2	34
217	Origin and enhancement of the spin Hall angle in the Weyl semimetals LaAlSi and LaAlGe. <i>Physical Review B</i> , 2021 , 104,	3.3	2
216	Emerging Spintronics Phenomena and Applications. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-34	2	6
215	Room-temperature nonlinear Hall effect and wireless radiofrequency rectification in Weyl semimetal TaIrTe. <i>Nature Nanotechnology</i> , 2021 , 16, 421-425	28.7	21
214	Shared-Write-Channel-Based Device for High-Density Spin-Orbit-Torque Magnetic Random-Access Memory. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
213	Highly efficient charge-to-spin conversion from in situ Bi ₂ Se ₃ /Fe heterostructures. <i>Applied Physics Letters</i> , 2021 , 118, 062403	3.4	1
212	Observation of the antiferromagnetic spin Hall effect. <i>Nature Materials</i> , 2021 , 20, 800-804	27	33
211	Evaluation of Effective Thermal Stability Factor for Patterned Magnetic Tunnel Junction Array. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-5	2	
210	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	69
209	Combination of red and blue light induces anthocyanin and other secondary metabolite biosynthesis pathways in an age-dependent manner in Batavia lettuce. <i>Plant Science</i> , 2021 , 310, 110977	5.3	4
208	Quantum frequency doubling in the topological insulator BiSe. <i>Nature Communications</i> , 2021 , 12, 698	17.4	11

207	Ultrafast optical modulation of Dirac electrons in gated single-layer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	4
206	Electrical Generation and Detection of Terahertz Signal Based on Spin-Wave Emission From Ferrimagnets. <i>Physical Review Applied</i> , 2020 , 13,	4.3	4
205	Anisotropic Picosecond Spin-Photocurrent from Weyl Semimetal WTe. <i>ACS Nano</i> , 2020 , 14, 3539-3545	16.7	19
204	Dzyaloshinskii-Moriya interaction induced asymmetry in dispersion of magnonic Bloch modes. <i>Physical Review B</i> , 2020 , 102,	3.3	5
203	Ultrafast and energy-efficient spin-orbit torque switching in compensated ferrimagnets. <i>Nature Electronics</i> , 2020 , 3, 37-42	28.4	78
202	Microscopic origin of spin-orbit torque in ferromagnetic heterostructures: A first-principles approach. <i>Physical Review B</i> , 2020 , 101,	3.3	14
201	Spin Nernst and anomalous Nernst effects and their signature outputs in ferromagnet/nonmagnet heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	2
200	Unconventional domain-wall pairs and interacting Bloch lines in a Dzyaloshinskii-Moriya multilayer thin film. <i>Physical Review B</i> , 2020 , 102,	3.3	3
199	Impact of Fe80B20 insertion on the properties of dual-MgO perpendicular magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 455004	3	0
198	Magnetotransport of Weyl semimetals with tilted Dirac cones. <i>New Journal of Physics</i> , 2020 , 22, 083081	2.9	4
197	Large enhancement of domain wall-induced anomalous magnetoresistance in ferrimagnetic Tb/Co wires: The effect of injecting spin Hall current. <i>Current Applied Physics</i> , 2020 , 20, 262-265	2.6	
196	Slippery and Wear-Resistant Surfaces Enabled by Interface Engineered Graphene. <i>Nano Letters</i> , 2020 , 20, 905-917	11.5	10
195	Spin-Orbit Torque Magnetization Switching in MoTe /Permalloy Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e2002799	24	21
194	Bloch Chirality Induced by an Interlayer Dzyaloshinskii-Moriya Interaction in Ferromagnetic Multilayers. <i>Physical Review Letters</i> , 2020 , 125, 227203	7.4	9
193	Driving Neurogenesis in Neural Stem Cells with High Sensitivity Optogenetics. <i>NeuroMolecular Medicine</i> , 2020 , 22, 139-149	4.6	2
192	Field-Free Switching of Perpendicular Magnetization Through Spin Hall and Anomalous Hall Effects in Ferromagnet/Heavy-Metal/Ferromagnet Structures. <i>Physical Review Applied</i> , 2019 , 12,	4.3	4
191	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS2. <i>Nature Physics</i> , 2019 , 15, 347-351	16.2	68
190	Engineering Interfacial Perpendicular Magnetic Anisotropy in Fe2CoSi/Pt Multilayers with Interfacial Strain and Orbital Hybridization. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1251-1260	4	2

189	Quantification of Mixed Bloch-Néel Topological Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in Co/Pd Multilayers. <i>Physical Review Letters</i> , 2019 , 122, 237201	7.4	21
188	Oxygen-Migration-Based Spintronic Device Emulating a Biological Synapse. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
187	Magnetic immunity of spin-transfer-torque MRAM. <i>Applied Physics Letters</i> , 2019 , 114, 172405	3.4	4
186	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature Communications</i> , 2019 , 10, 1290	17.4	15
185	Spin orbit torque driven magnetization switching with sputtered Bi ₂ Se ₃ spin current source. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 224001	3	11
184	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe. <i>Nano Letters</i> , 2019 , 19, 2647-2652	11.5	17
183	All-electric magnetization switching and Dzyaloshinskii-Moriya interaction in WTe/ferromagnet heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 945-949	28.7	104
182	Quantitative Analysis of Topological, Chiral Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in Co/Pd Multilayers. <i>Microscopy and Microanalysis</i> , 2019 , 25, 22-23	0.5	
181	Sub-Picosecond Carrier Dynamics Induced by Efficient Charge Transfer in MoTe/WTe van der Waals Heterostructures. <i>ACS Nano</i> , 2019 , 13, 9587-9594	16.7	15
180	Nonlinear Planar Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 016801	7.4	23
179	Magnetization switching by magnon-mediated spin torque through an antiferromagnetic insulator. <i>Science</i> , 2019 , 366, 1125-1128	33.3	68
178	Current-induced Out-of-plane Spin Accumulation on the (001) Surface of the IrMn ₃ Antiferromagnet. <i>Physical Review Applied</i> , 2019 , 12,	4.3	10
177	Electric-field control of spin accumulation direction for spin-orbit torques. <i>Nature Communications</i> , 2019 , 10, 248	17.4	40
176	Boosting contact sliding and wear protection via atomic intermixing and tailoring of nanoscale interfaces. <i>Science Advances</i> , 2019 , 5, eaau7886	14.3	6
175	Long spin coherence length and bulk-like spin-orbit torque in ferrimagnetic multilayers. <i>Nature Materials</i> , 2019 , 18, 29-34	27	58
174	Characterization and Manipulation of Spin Orbit Torque in Magnetic Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1705699	24	59
173	Nitrogen plasma treatment in two-step temperature deposited FePt bilayer media. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 461, 6-13	2.8	1
172	Exchange coupled CoPt/FePtC media for heat assisted magnetic recording. <i>Applied Physics Letters</i> , 2018 , 112, 142411	3.4	2

171	Nonvolatile infrared memory in MoS/PbS van der Waals heterostructures. <i>Science Advances</i> , 2018 , 4, eaap7916	14.3	106
170	Effect of capping layer on spin-orbit torques. <i>Journal of Applied Physics</i> , 2018 , 123, 153901	2.5	6
169	Room-Temperature Nanoseconds Spin Relaxation in WTe and MoTe Thin Films. <i>Advanced Science</i> , 2018 , 5, 1700912	13.6	25
168	Oscillatory spin-orbit torque switching induced by field-like torques. <i>Communications Physics</i> , 2018 , 1,	5.4	17
167	Bilinear magnetoelectric resistance as a probe of three-dimensional spin texture in topological surface states. <i>Nature Physics</i> , 2018 , 14, 495-499	16.2	58
166	Doping effects on structural and magnetic properties of Heusler alloys Fe ₂ Cr _{1-x} CoxSi. <i>AIP Advances</i> , 2018 , 8, 056328	1.5	6
165	Efficient charge-spin conversion and magnetization switching through the Rashba effect at topological-insulator/Ag interfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	34
164	Spin-wave calculations for magnetic stacks with interface Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2018 , 98,	3.3	5
163	Optical manipulation of magnetic vortices visualized in situ by Lorentz electron microscopy. <i>Science Advances</i> , 2018 , 4, eaat3077	14.3	24
162	Direct visualization of current-induced spin accumulation in topological insulators. <i>Nature Communications</i> , 2018 , 9, 2492	17.4	18
161	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1802439	24	72
160	Impact ionization by hot carriers in a black phosphorus field effect transistor. <i>Nature Communications</i> , 2018 , 9, 3414	17.4	23
159	Tuning of current-induced effective magnetic field through Rashba effect engineering in hybrid multiferroic structures. <i>NPG Asia Materials</i> , 2018 , 10, 740-748	10.3	7
158	Optical Quenching of Magnetic Vortex Visualized In Situ by Lorentz Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 912-913	0.5	
157	Current-Enhanced Broadband THz Emission from Spintronic Devices. <i>Advanced Optical Materials</i> , 2018 , 7, 1801608	8.1	19
156	Ferromagnet structural tuning of interfacial symmetry breaking and spin Hall angle in ferromagnet/heavy metal bilayers. <i>Applied Physics Letters</i> , 2018 , 113, 222406	3.4	5
155	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. <i>Nature Materials</i> , 2018 , 17, 1087-1094	27	158
154	Ultrafast Spin-to-Charge Conversion at the Surface of Topological Insulator Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1802356	24	44

153	Spin accumulation in topological insulator thin films. Influence of bulk and topological surface states. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 425301	3	1
152	Recent advances in spin-orbit torques: Moving towards device applications. <i>Applied Physics Reviews</i> , 2018 , 5, 031107	17.3	92
151	Effect of (Co _x Fe _{1-x}) ₈₀ B ₂₀ Composition on the Magnetic Properties of the Free Layer in Double-Barrier Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018 , 10,	4.3	7
150	FMR-related phenomena in spintronic devices. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 273002	3	42
149	Anomalous Hall Effect of Fe ₂ CoSi/Pt Multilayers With Large Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-4	2	2
148	Terahertz Emission from Compensated Magnetic Heterostructures. <i>Advanced Optical Materials</i> , 2018 , 6, 1800430	8.1	41
147	Field-Free Spin-Orbit Torque Switching from Geometrical Domain-Wall Pinning. <i>Nano Letters</i> , 2018 , 18, 4669-4674	11.5	30
146	Observation of Out-of-Plane Spin Texture in a SrTiO ₃ (111) Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 2018 , 120, 266802	7.4	26
145	Tunable terahertz reflection of graphene via ionic liquid gating. <i>Nanotechnology</i> , 2017 , 28, 095201	3.4	5
144	Observation of stable Néel skyrmions in cobalt/palladium multilayers with Lorentz transmission electron microscopy. <i>Nature Communications</i> , 2017 , 8, 14761	17.4	171
143	Anomalous spin-orbit torque switching due to field-like torque-assisted domain wall reflection. <i>Science Advances</i> , 2017 , 3, e1603099	14.3	52
142	Eigenmodes of Néel skyrmions in ultrathin magnetic films. <i>AIP Advances</i> , 2017 , 7, 055212	1.5	16
141	Topological-insulator-based terahertz modulator. <i>Scientific Reports</i> , 2017 , 7, 13486	4.9	9
140	Extrinsic Spin Hall Effect in Cu _{1-x} Ptx. <i>Physical Review Applied</i> , 2017 , 8,	4.3	47
139	Effect of surface state hybridization on current-induced spin-orbit torque in thin topological insulator films. <i>Scientific Reports</i> , 2017 , 7, 792	4.9	9
138	Static Magnetic Field Stimulation Enhances Oligodendrocyte Differentiation and Secretion of Neurotrophic Factors. <i>Scientific Reports</i> , 2017 , 7, 6743	4.9	40
137	Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2017 , 96,	3.3	13
136	Non-destructive patterning of 10 nm magnetic island array by phase transformation with low-energy proton irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 152401	3.4	2

135	Room temperature magnetization switching in topological insulator-ferromagnet heterostructures by spin-orbit torques. <i>Nature Communications</i> , 2017 , 8, 1364	17.4	179
134	Room-Temperature Giant Charge-to-Spin Conversion at the SrTiO-LaAlO Oxide Interface. <i>Nano Letters</i> , 2017 , 17, 7659-7664	11.5	54
133	Anomalous Current-Induced Spin Torques in Ferrimagnets near Compensation. <i>Physical Review Letters</i> , 2017 , 118, 167201	7.4	135
132	High-Performance THz Emitters Based on Ferromagnetic/Nonmagnetic Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1603031	24	116
131	Active Multifunctional Microelectromechanical System Metadevices: Applications in Polarization Control, Wavefront Deflection, and Holograms. <i>Advanced Optical Materials</i> , 2017 , 5, 1600716	8.1	84
130	Continuous Tuning of the Magnitude and Direction of Spin-Orbit Torque Using Bilayer Heavy Metals. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600210	6.4	22
129	Spin orbit torques and Dzyaloshinskii-Moriya interaction in dual-interfaced Co-Ni multilayers. <i>Scientific Reports</i> , 2016 , 6, 32629	4.9	55
128	Improvement of chemical ordering and magnetization dynamics of Co ₂ FeAlBi Heusler alloy thin films by changing adjacent layers. <i>RSC Advances</i> , 2016 , 6, 77811-77817	3.7	8
127	Cloaking the magnons. <i>Physical Review B</i> , 2016 , 93,	3.3	3
126	Enhancement of spin Hall effect induced torques for current-driven magnetic domain wall motion: Inner interface effect. <i>Physical Review B</i> , 2016 , 93,	3.3	29
125	Optically induced spin-dependent diffusive transport in the presence of spin-orbit interaction for all-optical magnetization reversal. <i>Physical Review B</i> , 2016 , 94,	3.3	4
124	Helicity-Dependent Photovoltaic Effect in Bi ₂ Se ₃ Under Normal Incident Light. <i>Advanced Optical Materials</i> , 2016 , 4, 1642-1650	8.1	18
123	Enhanced Spin-Orbit Torque via Modulation of Spin Current Absorption. <i>Physical Review Letters</i> , 2016 , 117, 217206	7.4	83
122	Giant nonreciprocal emission of spin waves in Ta/Py bilayers. <i>Science Advances</i> , 2016 , 2, e1501892	14.3	31
121	Spin-transfer versus spin-orbit torque MRAM 2016 ,		2
120	The role of Pt underlayer on the magnetization dynamics of perpendicular magnetic anisotropy Pt/Co ₂ FeAl _{0.5} Si _{0.5} /MgO. <i>Applied Physics Letters</i> , 2016 , 108, 232408	3.4	3
119	Flexible terahertz modulator based on coplanar-gate graphene field-effect transistor structure. <i>Optics Letters</i> , 2016 , 41, 816-9	3	27
118	Flexible MgO Barrier Magnetic Tunnel Junctions. <i>Advanced Materials</i> , 2016 , 28, 4983-90	24	44

117	Localized surface plasmon resonance in graphene nanomesh with Au nanostructures. <i>Applied Physics Letters</i> , 2016 , 109, 041106	3-4	9
116	Hf thickness dependence of spin-orbit torques in Hf/CoFeB/MgO heterostructures. <i>Applied Physics Letters</i> , 2016 , 108, 202406	3-4	63
115	Large spin-orbit torques in Pt/Co-Ni/W heterostructures. <i>Applied Physics Letters</i> , 2016 , 109, 042403	3-4	62
114	Individual magnetization reversal of a square dot matrix by common current excitation. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 295301	3	1
113	Topological Surface States Originated Spin-Orbit Torques in Bi(2)Se(3). <i>Physical Review Letters</i> , 2015 , 114, 257202	7-4	208
112	Coherent Subnanosecond Switching of Perpendicular Magnetization by the Fieldlike Spin-Orbit Torque without an External Magnetic Field. <i>Physical Review Applied</i> , 2015 , 3,	4-3	54
111	Synchronization of spin-transfer torque oscillators by spin pumping, inverse spin Hall, and spin Hall effects. <i>Journal of Applied Physics</i> , 2015 , 117, 063907	2-5	13
110	Spin-orbit-torque engineering via oxygen manipulation. <i>Nature Nanotechnology</i> , 2015 , 10, 333-8	28.7	224
109	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
108	Characterization of C-apertures in a successful demonstration of heat-assisted magnetic recording. <i>Optics Letters</i> , 2015 , 40, 3444-7	3	3
107	Heat-assisted magnetic recording (HAMR) demonstration using C-shaped nano-apertures 2015 ,		1
106	In-plane angular dependence of the spin-wave nonreciprocity of an ultrathin film with Dzyaloshinskii-Moriya interaction. <i>Applied Physics Letters</i> , 2015 , 107, 022402	3-4	21
105	Time-resolved imaging of pulse-induced magnetization reversal with a microwave assist field. <i>Scientific Reports</i> , 2015 , 5, 10695	4-9	2
104	Influence of tantalum underlayer on magnetization dynamics in Ni81Fe19 films. <i>Applied Physics Letters</i> , 2015 , 107, 022401	3-4	6
103	Investigating and engineering spin-orbit torques in heavy metal/Co2FeAl0.5Si0.5/MgO thin film structures. <i>Applied Physics Letters</i> , 2015 , 107, 022405	3-4	19
102	Two-step temperature deposited FePt bilayer for tunable magnetic properties. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 445007	3	3
101	Magnetic proximity effect in the topological insulator BiSbTeSe2. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 175-179	2-5	2
100	Magnetization reversal using excitation of collective modes in nanodot matrices. <i>Scientific Reports</i> , 2015 , 5, 7908	4-9	3

99	Asymmetric spin-wave dispersion due to Dzyaloshinskii-Moriya interaction in an ultrathin Pt/CoFeB film. <i>Applied Physics Letters</i> , 2015 , 106, 052403	3.4	76
98	Graphene terahertz modulators by ionic liquid gating. <i>Advanced Materials</i> , 2015 , 27, 1874-9	24	73
97	Direct observation of the Dzyaloshinskii-Moriya interaction in a Pt/Co/Ni film. <i>Physical Review Letters</i> , 2015 , 114, 047201	7.4	208
96	Strain-enhanced tunneling magnetoresistance in MgO magnetic tunnel junctions. <i>Scientific Reports</i> , 2014 , 4, 6505	4.9	27
95	Angular and temperature dependence of current induced spin-orbit effective fields in Ta/CoFeB/MgO nanowires. <i>Scientific Reports</i> , 2014 , 4, 4491	4.9	177
94	Ion Implantation Challenges for Patterned Media at Areal Densities Over 5 Tbps. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 41-46	2	7
93	Outdoor performance and durability testing of antireflecting and self-cleaning glass for photovoltaic applications. <i>Solar Energy</i> , 2014 , 110, 231-238	6.8	41
92	Investigation of the temperature-dependence of ferromagnetic resonance and spin waves in Co ₂ FeAl _{0.5} Si _{0.5} . <i>Applied Physics Letters</i> , 2014 , 104, 232409	3.4	20
91	Nonreciprocity engineering in magnetostatic spin waves. <i>Current Applied Physics</i> , 2014 , 14, S129-S135	2.6	19
90	An ultrathin multilayer TiN/SiN wear resistant coating for advanced magnetic tape drive heads. <i>Thin Solid Films</i> , 2014 , 556, 354-360	2.2	6
89	Preparation of Ag/TiO ₂ /SiO ₂ films via photo-assisted deposition and adsorptive self-assembly for catalytic bactericidal application. <i>Applied Surface Science</i> , 2014 , 311, 582-592	6.7	15
88	Low energy C+ ion embedment induced structural disorder in L10 FePt. <i>Journal of Applied Physics</i> , 2014 , 115, 013907	2.5	1
87	Defect-induced negative magnetoresistance and surface state robustness in the topological insulator BiSbTeSe ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	28
86	Tunable daughter molds from a single Si master grating mold. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 051601	1.3	1
85	Thermally assisted domain wall nucleation in perpendicular anisotropy trilayer nanowires. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 105005	3	6
84	Current-driven spin orbit field in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 162405	3.4	41
83	Determination of intrinsic spin Hall angle in Pt. <i>Applied Physics Letters</i> , 2014 , 105, 152412	3.4	120
82	Observation of inverse spin Hall effect in bismuth selenide. <i>Physical Review B</i> , 2014 , 90,	3.3	122

81	Electrical detection of microwave assisted magnetization reversal by spin pumping. <i>Applied Physics Letters</i> , 2014 , 104, 122406	3.4	9
80	Band structure of magnonic crystals with defects: Brillouin spectroscopy and micromagnetic simulations. <i>Physical Review B</i> , 2014 , 90,	3.3	14
79	Effect of FePt on resonant behaviour of a near field transducer for high areal density heat assisted magnetic recording. <i>Applied Physics Letters</i> , 2014 , 104, 111107	3.4	5
78	Spin wave non-reciprocity and beating in permalloy by the time-resolved magneto-optical Kerr effect. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 385002	3	2
77	Omnidirectional study of nanostructured glass packaging for solar modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 356-361	6.8	9
76	Large scale antireflective glass texturing using grid contacts in anodization methods. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 116, 9-13	6.4	8
75	Characterization of magnetostatic surface spin waves in magnetic thin films: evaluation for microelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 111, 369-378	2.6	23
74	Developing an (Al,Ti)N x C y Interlayer to Improve the Durability of the ta-C Coating on Magnetic Recording Heads. <i>Tribology Letters</i> , 2013 , 50, 233-243	2.8	7
73	Spin-orbit torques in Co/Pd multilayer nanowires. <i>Physical Review Letters</i> , 2013 , 111, 246602	7.4	108
72	Antibacterial effect of light emitting diodes of visible wavelengths on selected foodborne pathogens at different illumination temperatures. <i>International Journal of Food Microbiology</i> , 2013 , 166, 399-406	5.8	97
71	Electric-field-induced magnetization changes in Co/Al ₂ O ₃ granular multilayers. <i>Physical Review B</i> , 2013 , 87,	3.3	1
70	Control of domain wall motion at vertically etched nanotrench in ferromagnetic nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 252401	3.4	
69	Role of spin mixing conductance in spin pumping: Enhancement of spin pumping efficiency in Ta/Cu/Py structures. <i>Applied Physics Letters</i> , 2013 , 103, 232408	3.4	66
68	Graphene/liquid crystal based terahertz phase shifters. <i>Optics Express</i> , 2013 , 21, 21395-402	3.3	68
67	Spin wave nonreciprocity for logic device applications. <i>Scientific Reports</i> , 2013 , 3, 3160	4.9	123
66	Giant magnetoresistance in single-layer graphene flakes with a gate-voltage-tunable weak antilocalization. <i>Physical Review B</i> , 2013 , 88,	3.3	34
65	Conductance modulation in topological insulator Bi ₂ Se ₃ thin films with ionic liquid gating. <i>Applied Physics Letters</i> , 2013 , 103, 213114	3.4	28
64	Stochastic nonlinear electrical characteristics of graphene. <i>Applied Physics Letters</i> , 2013 , 102, 033101	3.4	4

63	Heat assisted magnetic recording (HAMR) with nano-aperture VCSELs for 10 Tb/in ² magnetic storage density 2013 ,		2
62	Lateral displacement induced disorder in L1(0)-FePt nanostructures by ion-implantation. <i>Scientific Reports</i> , 2013 , 3, 1907	4.9	23
61	A practical superhydrophilic self cleaning and antireflective surface for outdoor photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 46-51	6.4	127
60	Universal scaling of resistivity in bilayer graphene. <i>Applied Physics Letters</i> , 2012 , 101, 223111	3.4	6
59	Tunneling behavior of bismuth telluride nanoplates in electrical transport. <i>Chemical Physics Letters</i> , 2012 , 546, 125-128	2.5	2
58	First-Order Reversal Curve Investigations on the Effects of Ion Implantation in Magnetic Media. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2753-2756	2	11
57	Attenuation characteristics of spin-pumping signal due to traveling spin waves. <i>Physical Review B</i> , 2012 , 85,	3.3	22
56	A Novel Approach of Carbon Embedding in Magnetic Media for Future Head/Disk Interface. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 1807-1812	2	18
55	Ultrafine and High Aspect Ratio Metal Lines by Electron Beam Lithography for Silicon Solar Cell Metallisation. <i>Energy Procedia</i> , 2012 , 15, 91-96	2.3	3
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