

Hyunsoo Yang

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238
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9,228
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
224	Surface-energy engineering of graphene. <i>Langmuir</i> , 2010 , 26, 3798-802	4	383
223	Spin-orbit-torque engineering via oxygen manipulation. <i>Nature Nanotechnology</i> , 2015 , 10, 333-8	28.7	224
222	Topological Surface States Originated Spin-Orbit Torques in Bi(2)Se(3). <i>Physical Review Letters</i> , 2015 , 114, 257202	7.4	208
221	Direct observation of the Dzyaloshinskii-Moriya interaction in a Pt/Co/Ni film. <i>Physical Review Letters</i> , 2015 , 114, 047201	7.4	208
220	Room temperature magnetization switching in topological insulator-ferromagnet heterostructures by spin-orbit torques. <i>Nature Communications</i> , 2017 , 8, 1364	17.4	179
219	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
218	Observation of stable Néel skyrmions in cobalt/palladium multilayers with Lorentz transmission electron microscopy. <i>Nature Communications</i> , 2017 , 8, 14761	17.4	171
217	Ferroelectrically tunable magnetic skyrmions in ultrathin oxide heterostructures. <i>Nature Materials</i> , 2018 , 17, 1087-1094	27	158
216	Anomalous Current-Induced Spin Torques in Ferrimagnets near Compensation. <i>Physical Review Letters</i> , 2017 , 118, 167201	7.4	135
215	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
214	Spin wave nonreciprocity for logic device applications. <i>Scientific Reports</i> , 2013 , 3, 3160	4.9	123
213	Observation of inverse spin Hall effect in bismuth selenide. <i>Physical Review B</i> , 2014 , 90,	3.3	122
212	Determination of intrinsic spin Hall angle in Pt. <i>Applied Physics Letters</i> , 2014 , 105, 152412	3.4	120
211	High-Performance THz Emitters Based on Ferromagnetic/Nonmagnetic Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1603031	24	116
210	Self-cleaning and antireflective packaging glass for solar modules. <i>Renewable Energy</i> , 2011 , 36, 2489-2493	3.1	116
209	Spin-orbit torques in Co/Pd multilayer nanowires. <i>Physical Review Letters</i> , 2013 , 111, 246602	7.4	108
208	Nonvolatile infrared memory in MoS/PbS van der Waals heterostructures. <i>Science Advances</i> , 2018 , 4, eaap7916	14.3	106

207	Frictional characteristics of exfoliated and epitaxial graphene. <i>Carbon</i> , 2011 , 49, 4070-4073	10.4	106
206	All-electric magnetization switching and Dzyaloshinskii-Moriya interaction in WTe/ferromagnet heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 945-949	28.7	104
205	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
204	Recent advances in spin-orbit torques: Moving towards device applications. <i>Applied Physics Reviews</i> , 2018 , 5, 031107	17.3	92
203	Active Multifunctional Microelectromechanical System Metadevices: Applications in Polarization Control, Wavefront Deflection, and Holograms. <i>Advanced Optical Materials</i> , 2017 , 5, 1600716	8.1	84
202	Graphene induced tunability of the surface plasmon resonance. <i>Applied Physics Letters</i> , 2012 , 100, 061116	13.4	84
201	Enhanced Spin-Orbit Torque via Modulation of Spin Current Absorption. <i>Physical Review Letters</i> , 2016 , 117, 217206	7.4	83
200	TiO ₂ thin films prepared via adsorptive self-assembly for self-cleaning applications. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1093-102	9.5	82
199	Extremely long quasiparticle spin lifetimes in superconducting aluminium using MgO tunnel spin injectors. <i>Nature Materials</i> , 2010 , 9, 586-93	27	82
198	Current-induced control of spin-wave attenuation. <i>Physical Review Letters</i> , 2009 , 102, 147202	7.4	82
197	Ultrafast and energy-efficient spin-orbit torque switching in compensated ferrimagnets. <i>Nature Electronics</i> , 2020 , 3, 37-42	28.4	78
196	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
195	Graphene terahertz modulators by ionic liquid gating. <i>Advanced Materials</i> , 2015 , 27, 1874-9	24	73
194	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1802439	24	72
193	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
192	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	69
191	Far out-of-equilibrium spin populations trigger giant spin injection into atomically thin MoS ₂ . <i>Nature Physics</i> , 2019 , 15, 347-351	16.2	68
190	Graphene/liquid crystal based terahertz phase shifters. <i>Optics Express</i> , 2013 , 21, 21395-402	3.3	68

189	Magnetization switching by magnon-mediated spin torque through an antiferromagnetic insulator. <i>Science</i> , 2019 , 366, 1125-1128	33.3	68
188	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
187	Hf thickness dependence of spin-orbit torques in Hf/CoFeB/MgO heterostructures. <i>Applied Physics Letters</i> , 2016 , 108, 202406	3.4	63
186	Large spin-orbit torques in Pt/Co-Ni/W heterostructures. <i>Applied Physics Letters</i> , 2016 , 109, 042403	3.4	62
185	Characterization and Manipulation of Spin Orbit Torque in Magnetic Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1705699	24	59
184	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
183	Long spin coherence length and bulk-like spin-orbit torque in ferrimagnetic multilayers. <i>Nature Materials</i> , 2019 , 18, 29-34	27	58
182	The role of charge traps in inducing hysteresis: Capacitance-voltage measurements on top gated bilayer graphene. <i>Applied Physics Letters</i> , 2011 , 99, 083109	3.4	57
181	Spin orbit torques and Dzyaloshinskii-Moriya interaction in dual-interfaced Co-Ni multilayers. <i>Scientific Reports</i> , 2016 , 6, 32629	4.9	55
180	Crossover from Kondo-assisted suppression to co-tunneling enhancement of tunneling magnetoresistance via ferromagnetic nanodots in MgO tunnel barriers. <i>Nano Letters</i> , 2008 , 8, 340-4	11.5	55
179	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
178	Room-Temperature Giant Charge-to-Spin Conversion at the SrTiO ₃ -LaAlO ₃ Oxide Interface. <i>Nano Letters</i> , 2017 , 17, 7659-7664	11.5	54
177	Anomalous spin-orbit torque switching due to field-like torque-assisted domain wall reflection. <i>Science Advances</i> , 2017 , 3, e1603099	14.3	52
176	Extrinsic Spin Hall Effect in Cu _{1-x} Ptx. <i>Physical Review Applied</i> , 2017 , 8,	4.3	47
175	The Effect of Dust on Transmission and Self-cleaning Property of Solar Panels. <i>Energy Procedia</i> , 2012 , 15, 421-427	2.3	45
174	Flexible MgO Barrier Magnetic Tunnel Junctions. <i>Advanced Materials</i> , 2016 , 28, 4983-90	24	44
173	Ultrafast Spin-to-Charge Conversion at the Surface of Topological Insulator Thin Films. <i>Advanced Materials</i> , 2018 , 30, e1802356	24	44
172	Spin wave assisted current induced magnetic domain wall motion. <i>Applied Physics Letters</i> , 2010 , 96, 242501	3.4	42

171	Role of Tunneling Matrix Elements in Determining the Magnitude of the Tunneling Spin Polarization of 3d Transition Metal Ferromagnetic Alloys. <i>Physical Review Letters</i> , 2005 , 94,	7.4	42
170	FMR-related phenomena in spintronic devices. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 273002	3	42
169	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
168	Current-driven spin orbit field in LaAlO ₃ /SrTiO ₃ heterostructures. <i>Applied Physics Letters</i> , 2014 , 105, 162405	3.4	41
167	Terahertz Emission from Compensated Magnetic Heterostructures. <i>Advanced Optical Materials</i> , 2018 , 6, 1800430	8.1	41
166	Static Magnetic Field Stimulation Enhances Oligodendrocyte Differentiation and Secretion of Neurotrophic Factors. <i>Scientific Reports</i> , 2017 , 7, 6743	4.9	40
165	Electric-field control of spin accumulation direction for spin-orbit torques. <i>Nature Communications</i> , 2019 , 10, 248	17.4	40
164	Shifting of surface plasmon resonance due to electromagnetic coupling between graphene and Au nanoparticles. <i>Optics Express</i> , 2012 , 20, 19690-6	3.3	36
163	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
162	Giant magnetoresistance in single-layer graphene flakes with a gate-voltage-tunable weak antilocalization. <i>Physical Review B</i> , 2013 , 88,	3.3	34
161	. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-39	2	34
160	Observation of the antiferromagnetic spin Hall effect. <i>Nature Materials</i> , 2021 , 20, 800-804	27	33
159	Giant nonreciprocal emission of spin waves in Ta/Py bilayers. <i>Science Advances</i> , 2016 , 2, e1501892	14.3	31
158	Enhancement of optical transmission with random nanohole structures. <i>Optics Express</i> , 2011 , 19 Suppl 1, A35-40	3.3	30
157	Field-Free Spin-Orbit Torque Switching from Geometrical Domain-Wall Pinning. <i>Nano Letters</i> , 2018 , 18, 4669-4674	11.5	30
156	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
155	Defect-induced negative magnetoresistance and surface state robustness in the topological insulator BiSbTeSe ₂ . <i>Physical Review B</i> , 2014 , 90,	3.3	28
154	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

153	Ambipolar bistable switching effect of graphene. <i>Applied Physics Letters</i> , 2010 , 97, 262105	3.4	28
152	Strain-enhanced tunneling magnetoresistance in MgO magnetic tunnel junctions. <i>Scientific Reports</i> , 2014 , 4, 6505	4.9	27
151	Flexible terahertz modulator based on coplanar-gate graphene field-effect transistor structure. <i>Optics Letters</i> , 2016 , 41, 816-9	3	27
150	Disorder-free sputtering method on graphene. <i>AIP Advances</i> , 2012 , 2, 032121	1.5	27
149	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
148	Room-Temperature Nanoseconds Spin Relaxation in WTe and MoTe Thin Films. <i>Advanced Science</i> , 2018 , 5, 1700912	13.6	25
147	Negative tunneling magnetoresistance by canted magnetization in MgO/NiO tunnel barriers. <i>Physical Review Letters</i> , 2011 , 106, 167201	7.4	25
146	Sign of tunneling magnetoresistance in CrO ₂ -based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007 , 91, 252506	3.4	25
145	Ferrimagnetic spintronics.. <i>Nature Materials</i> , 2022 , 21, 24-34	27	25
144	Optical manipulation of magnetic vortices visualized in situ by Lorentz electron microscopy. <i>Science Advances</i> , 2018 , 4, eaat3077	14.3	24
143	Impact ionization by hot carriers in a black phosphorus field effect transistor. <i>Nature Communications</i> , 2018 , 9, 3414	17.4	23
142	Nonlinear Planar Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 016801	7.4	23
141	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
140	Lateral displacement induced disorder in L1(0)-FePt nanostructures by ion-implantation. <i>Scientific Reports</i> , 2013 , 3, 1907	4.9	23
139	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
138	Attenuation characteristics of spin-pumping signal due to traveling spin waves. <i>Physical Review B</i> , 2012 , 85,	3.3	22
137	Parallel-leaky capacitance equivalent circuit model for MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 101, 162404	3.4	22
136	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

135	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
134	The role of Mg interface layer in MgO magnetic tunnel junctions with CoFe and CoFeB electrodes. <i>AIP Advances</i> , 2012 , 2, 012150	1.5	21
133	Spin-Orbit Torque Magnetization Switching in MoTe /Permalloy Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e2002799	24	21
132	Room-temperature nonlinear Hall effect and wireless radiofrequency rectification in Weyl semimetal TaIrTe. <i>Nature Nanotechnology</i> , 2021 , 16, 421-425	28.7	21
131	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
130	Overcoat Free Magnetic Media for Lower Magnetic Spacing and Improved Tribological Properties for Higher Areal Densities. <i>Tribology Letters</i> , 2011 , 43, 247-256	2.8	20
129	Magnetic and structural properties of CoCrPtBiO ₂ -based graded media prepared by ion implantation. <i>Journal of Applied Physics</i> , 2011 , 110, 083917	2.5	20
128	Anisotropic Picosecond Spin-Photocurrent from Weyl Semimetal WTe. <i>ACS Nano</i> , 2020 , 14, 3539-3545	16.7	19
127	Nonreciprocity engineering in magnetostatic spin waves. <i>Current Applied Physics</i> , 2014 , 14, S129-S135	2.6	19
126	Investigating and engineering spin-orbit torques in heavy metal/Co ₂ FeAl _{0.5} Si _{0.5} /MgO thin film structures. <i>Applied Physics Letters</i> , 2015 , 107, 022405	3.4	19
125	Current-Enhanced Broadband THz Emission from Spintronic Devices. <i>Advanced Optical Materials</i> , 2018 , 7, 1801608	8.1	19
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	Direct visualization of current-induced spin accumulation in topological insulators. <i>Nature Communications</i> , 2018 , 9, 2492	17.4	18
122	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
121	Study of electromagnetic enhancement for surface enhanced Raman spectroscopy of SiC graphene. <i>Applied Physics Letters</i> , 2012 , 100, 191601	3.4	18
120	Effect of pre-treatment of the substrate surface by energetic C ⁺ ion bombardment on structure and nano-tribological characteristics of ultra-thin tetrahedral amorphous carbon (ta-C) protective coatings. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 115502	3	18
119	Oxygen-Migration-Based Spintronic Device Emulating a Biological Synapse. <i>Physical Review Applied</i> , 2019 , 11,	4.3	17
118	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe. <i>Nano Letters</i> , 2019 , 19, 2647-2652	11.5	17

117	Oscillatory spin-orbit torque switching induced by field-like torques. <i>Communications Physics</i> , 2018 , 1,	5.4	17
116	Coexistence of the Kondo effect and a ferromagnetic phase in magnetic tunnel junctions. <i>Physical Review B</i> , 2011 , 83,	3.3	17
115	Eigenmodes of Néel skyrmions in ultrathin magnetic films. <i>AIP Advances</i> , 2017 , 7, 055212	1.5	16
114	Effect of angstrom-scale surface roughness on the self-assembly of polystyrene-polydimethylsiloxane block copolymer. <i>Scientific Reports</i> , 2012 , 2, 617	4.9	16
113	Effect of pretreatment of Si interlayer by energetic C ⁺ ions on the improved nanotribological properties of magnetic head overcoat. <i>Journal of Applied Physics</i> , 2012 , 111, 084902	2.5	16
112	Tunable metal-insulator transitions in bilayer graphene by thermal annealing. <i>Applied Physics Letters</i> , 2011 , 98, 233108	3.4	16
111	Phononic dispersion of a two-dimensional chessboard-patterned bicomponent array on a substrate. <i>Applied Physics Letters</i> , 2012 , 101, 053102	3.4	16
110	Nonlinear magnetotransport shaped by Fermi surface topology and convexity. <i>Nature Communications</i> , 2019 , 10, 1290	17.4	15
109	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
108	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
107	Effect of annealing and applied bias on barrier shape in CoFe/MgO/CoFe tunnel junctions. <i>Physical Review B</i> , 2011 , 83,	3.3	15
106	Microscopic origin of spin-orbit torque in ferromagnetic heterostructures: A first-principles approach. <i>Physical Review B</i> , 2020 , 101,	3.3	14
105	Band structure of magnonic crystals with defects: Brillouin spectroscopy and micromagnetic simulations. <i>Physical Review B</i> , 2014 , 90,	3.3	14
104	Interference-mediated modulation of spin waves. <i>Physical Review B</i> , 2012 , 85,	3.3	14
103	Deep anisotropic LiNbO ₃ etching with SF ₆ /Ar inductively coupled plasmas. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 011208	1.3	14
102	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
101	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
100	Biaxial strain effect of spin dependent tunneling in MgO magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2012 , 101, 042407	3.4	13

99	Tunneling characteristics of graphene. <i>Applied Physics Letters</i> , 2010 , 97, 252102	3.4	13
98	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
97	Nonlocal spin transport in single-walled carbon nanotube networks. <i>Physical Review B</i> , 2012 , 85,	3.3	12
96	Spin waves interference from rising and falling edges of electrical pulses. <i>Applied Physics Letters</i> , 2011 , 99, 132505	3.4	12
95	Effect of nonadiabatic spin transfer torque on domain wall resonance frequency and mass. <i>Applied Physics Letters</i> , 2011 , 98, 092501	3.4	12
94	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
93	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
92	Ultrathin Si/C graded layer to improve tribological properties of Co magnetic films. <i>Applied Physics Letters</i> , 2012 , 101, 191601	3.4	11
91	Metastable magnetic domain wall dynamics. <i>New Journal of Physics</i> , 2012 , 14, 033010	2.9	11
90	Quantum frequency doubling in the topological insulator BiSe. <i>Nature Communications</i> , 2021 , 12, 698	17.4	11
89	Slippery and Wear-Resistant Surfaces Enabled by Interface Engineered Graphene. <i>Nano Letters</i> , 2020 , 20, 905-917	11.5	10
88	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
87	Topological-insulator-based terahertz modulator. <i>Scientific Reports</i> , 2017 , 7, 13486	4.9	9
86	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
85	Electrical detection of microwave assisted magnetization reversal by spin pumping. <i>Applied Physics Letters</i> , 2014 , 104, 122406	3.4	9
84	Omnidirectional study of nanostructured glass packaging for solar modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 356-361	6.8	9
83	Ion implantation induced modification of structural and magnetic properties of perpendicular media. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 365001	3	9
82	Tunneling spin polarization measurements from ferromagnet/MgO tunnel junctions using NbN superconductor. <i>Applied Physics Letters</i> , 2006 , 88, 182501	3.4	9

81	Optimized thickness of superconducting aluminum electrodes for measurement of spin polarization with MgO tunnel barriers. <i>Applied Physics Letters</i> , 2007 , 90, 202502	3.4	9
80	Bloch Chirality Induced by an Interlayer Dzyaloshinskii-Moriya Interaction in Ferromagnetic Multilayers. <i>Physical Review Letters</i> , 2020 , 125, 227203	7.4	9
79	Localized surface plasmon resonance in graphene nanomesh with Au nanostructures. <i>Applied Physics Letters</i> , 2016 , 109, 041106	3.4	9
78	Improvement of chemical ordering and magnetization dynamics of Co ₅₀ Fe ₅₀ Bi Heusler alloy thin films by changing adjacent layers. <i>RSC Advances</i> , 2016 , 6, 77811-77817	3.7	8
77	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
76	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
75	Ion Implantation Challenges for Patterned Media at Areal Densities Over 5 Tbps. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 41-46	2	7
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	Development of a ta-C Wear Resistant Coating with Composite Interlayer for Recording Heads of Magnetic Tape Drives. <i>Tribology Letters</i> , 2012 , 46, 221-232	2.8	7
72	Effect of carbon embedding on the tribological properties of magnetic media surface with and without a perfluoropolyether (PFPE) layer. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 315301	3	7
71	Design and fabrication of high efficiency power coupler between different photonic crystal waveguides. <i>Applied Physics Letters</i> , 2011 , 98, 241102	3.4	7
70	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
69	Effect of capping layer on spin-orbit torques. <i>Journal of Applied Physics</i> , 2018 , 123, 153901	2.5	6
68	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
67	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
66	Influence of tantalum underlayer on magnetization dynamics in Ni ₈₁ Fe ₁₉ films. <i>Applied Physics Letters</i> , 2015 , 107, 022401	3.4	6
65	Thermally assisted domain wall nucleation in perpendicular anisotropy trilayer nanowires. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 105005	3	6
64	Universal scaling of resistivity in bilayer graphene. <i>Applied Physics Letters</i> , 2012 , 101, 223111	3.4	6

63	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
62	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
61	Boosting contact sliding and wear protection via atomic intermixing and tailoring of nanoscale interfaces. <i>Science Advances</i> , 2019 , 5, eaau7886	14.3	6
60	Emerging Spintronics Phenomena and Applications. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-34	2	6
59	Tunable terahertz reflection of graphene via ionic liquid gating. <i>Nanotechnology</i> , 2017 , 28, 095201	3.4	5
58	Dzyaloshinskii-Moriya interaction induced asymmetry in dispersion of magnonic Bloch modes. <i>Physical Review B</i> , 2020 , 102,	3.3	5
57	Spin-wave calculations for magnetic stacks with interface Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2018 , 98,	3.3	5
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