

# Kyung-Jin Lee

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/607361/publications.pdf>

Version: 2024-02-01

254  
papers

11,023  
citations

32410

55  
h-index

38517

99  
g-index

266  
all docs

266  
docs citations

266  
times ranked

7019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Spin-Orbit Torque Switching Current by Voltage-Controlled Easy-Cone States. <i>Advanced Functional Materials</i> , 2022, 32, 2107944.	7.8	2
2	Slater-Pauling behavior of interfacial magnetic properties of $\text{Pt}/\text{Co}/\text{Pt}$ transition metal alloy/Pt structures. <i>Physical Review B</i> , 2022, 105, .	4.1	5
3	Efficient spin-orbit torque in magnetic trilayers using all three polarizations of a spin current. <i>Nature Electronics</i> , 2022, 5, 217-223.	13.1	28
4	Ferrimagnetic spintronics. <i>Nature Materials</i> , 2022, 21, 24-34.	13.3	129
5	Voltage-driven gigahertz frequency tuning of spin Hall nano-oscillators. <i>Nature Communications</i> , 2022, 13, .	5.8	14
6	Spin Swapping Effect of Band Structure Origin in Centrosymmetric Ferromagnets. <i>Physical Review Letters</i> , 2022, 129, .	2.9	9
7	Current-induced spin-wave Doppler shift and attenuation in compensated ferrimagnets. <i>Physical Review B</i> , 2021, 103, .	1.1	9
8	Effects of Interfacial Oxidization on Magnetic Damping and Spin-Orbit Torques. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 19414-19421.	4.0	7
9	Effect of the spin-orbit interaction at insulator/ferromagnet interfaces on spin-orbit torques. <i>Physical Review B</i> , 2021, 103, .	1.1	5
10	Magnetization dynamics of antiferromagnetic metals of PtMn and IrMn driven by a pulsed spin-transfer torque. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	4
11	Theory of spin-torque ferrimagnetic resonance. <i>Physical Review B</i> , 2021, 104, .	1.1	4
12	Spin-orbit torques induced by spin Hall and spin swapping currents of a separate ferromagnet in a magnetic trilayer. <i>Current Applied Physics</i> , 2021, 29, 54-58.	1.1	1
13	Stochastic SOT device based SNN architecture for On-chip Unsupervised STDP Learning. <i>IEEE Transactions on Computers</i> , 2021, , 1-1.	2.4	7
14	Temperature dependence of intrinsic and extrinsic contributions to anisotropic magnetoresistance. <i>Scientific Reports</i> , 2021, 11, 20884.	1.6	10
15	Superluminal-like magnon propagation in antiferromagnetic NiO at nanoscale distances. <i>Nature Nanotechnology</i> , 2021, 16, 1337-1341.	15.6	24
16	Spin-orbit torques in normal metal/Nb/ferromagnet heterostructures. <i>Scientific Reports</i> , 2021, 11, 21081.	1.6	4
17	Efficient conversion of orbital Hall current to spin current for spin-orbit torque switching. <i>Communications Physics</i> , 2021, 4, .	2.0	65
18	Direct observation of spin accumulation and spin-orbit torque driven by Rashba-Edelstein effect in an InAs quantum-well layer. <i>Physical Review B</i> , 2021, 104, .	1.1	7

#	ARTICLE	IF	CITATIONS
19	Domain-wall motion driven by a rotating field in a ferrimagnet. <i>Physical Review B</i> , 2021, 104, .	1.1	5
20	Field-like spin-orbit torque induced by bulk Rashba channels in GeTe/NiFe bilayers. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	7
21	Tunable magnonic cavity analogous to Fabry-Pérot interferometer. <i>Applied Physics Letters</i> , 2021, 119, 202401.	1.5	2
22	Orbital torque in magnetic bilayers. <i>Nature Communications</i> , 2021, 12, 6710.	5.8	69
23	Electric-field control of field-free spin-orbit torque switching via laterally modulated Rashba effect in Pt/Co/AlOx structures. <i>Nature Communications</i> , 2021, 12, 7111.	5.8	36
24	Observation of Thermal Spin-Orbit Torque in W/CoFeB/MgO Structures. <i>Nano Letters</i> , 2020, 20, 7803-7810.	4.5	7
25	Negative spin Hall magnetoresistance of normal metal/ferromagnet bilayers. <i>Nature Communications</i> , 2020, 11, 3619.	5.8	13
26	The dynamics of a domain wall in ferrimagnets driven by spin-transfer torque. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167237.	1.0	13
27	Coherent spin waves driven by optical spin-orbit torque. <i>Physical Review B</i> , 2020, 102, .	1.1	6
28	Rashba Effect in Functional Spintronic Devices. <i>Advanced Materials</i> , 2020, 32, e2002117.	11.1	77
29	Magnetic soliton rectifier via phase synchronization. <i>Physical Review B</i> , 2020, 102, .	1.1	2
30	Generalized Spin Drift-Diffusion Formalism in the Presence of Spin-Orbit Interaction of Ferromagnets. <i>Physical Review Letters</i> , 2020, 125, 207205.	2.9	23
31	Role of orbital hybridization in anisotropic magnetoresistance. <i>Physical Review B</i> , 2020, 101, .	1.1	10
32	Intrinsic origin of interfacial second-order magnetic anisotropy in ferromagnet/normal metal heterostructures. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	9
33	Optical spin-orbit torque in heavy metal-ferromagnet heterostructures. <i>Nature Communications</i> , 2020, 11, 1482.	5.8	26
34	Direct Demonstration of Topological Stability of Magnetic Skyrmions via Topology Manipulation. <i>ACS Nano</i> , 2020, 14, 3251-3258.	7.3	57
35	Current-Induced Spin-Orbit Torques for Spintronic Applications. <i>Advanced Materials</i> , 2020, 32, e1907148.	11.1	121
36	Distinct handedness of spin wave across the compensation temperatures of ferrimagnets. <i>Nature Materials</i> , 2020, 19, 980-985.	13.3	42

#	ARTICLE	IF	CITATIONS
37	Enhanced Magnon-Photon Coupling at the Angular Momentum Compensation Point of Ferrimagnets. <i>Physical Review Letters</i> , 2020, 125, 027205.	2.9	15
38	Effect of inhomogeneous Dzyaloshinskii-Moriya interaction on antiferromagnetic spin-wave propagation. <i>Physical Review B</i> , 2020, 101, .	1.1	8
39	SU(3) Topology of Magnon-Phonon Hybridization in 2D Antiferromagnets. <i>Physical Review Letters</i> , 2020, 124, 147204.	2.9	46
40	Exchange Bias Effect in Ferro-/Antiferromagnetic van der Waals Heterostructures. <i>Nano Letters</i> , 2020, 20, 3978-3985.	4.5	13
41	Realization of Su-Schrieffer-Heeger states based on metamaterials of magnetic solitons. <i>Physical Review B</i> , 2020, 101, .	1.1	11
42	Numerical computation of spin-transfer torques for antiferromagnetic domain walls. <i>Physical Review B</i> , 2020, 101, .	1.1	9
43	Spin-orbit Torque Switching of Perpendicular Magnetization in Ferromagnetic Trilayers. <i>Scientific Reports</i> , 2020, 10, 1772.	1.6	26
44	Theory of current-induced angular momentum transfer dynamics in spin-orbit coupled systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	65
45	Relativistic kinematics of a magnetic soliton. <i>Science</i> , 2020, 370, 1438-1442.	6.0	75
46	Spin-Transfer Torque-Driven Magnetization Dynamics in Magnetic Random Access Memory. , 2020, , 211-230.		0
47	Basics and Application of Spin Diffusion Theory. <i>Journal of the Korean Magnetics Society</i> , 2020, 30, 91-95.	0.0	0
48	Magnetic skyrmion field-effect transistors. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	13
49	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. <i>Applied Physics Express</i> , 2019, 12, 093001.	1.1	24
50	Bidirectional spin-wave-driven domain wall motion in ferrimagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	25
51	Effect of Rashba interaction at normal metal/insulator interface on spin-orbit torque of ferromagnet/normal metal/insulator trilayers. <i>Current Applied Physics</i> , 2019, 19, 1362-1366.	1.1	4
52	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. <i>Nature Electronics</i> , 2019, 2, 389-393.	13.1	55
53	Spin-orbit torques and their angular dependence in ferromagnet/normal metal heterostructures. <i>Applied Physics Letters</i> , 2019, 115, 122405.	1.5	2
54	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. <i>Nature Nanotechnology</i> , 2019, 14, 232-236.	15.6	137

#	ARTICLE	IF	CITATIONS
55	influence of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{Mg} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Sputtering Power and Post annealing on Strength and Angular Dependence of Spin-Orbit Torques in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{Pt} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Co} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle$	1.5	11
56	Domain wall dynamics in easy-cone magnets. Physical Review B, 2019, 99, .	1.1	8
57	Bulk Dzyaloshinskii-Moriya interaction in amorphous ferrimagnetic alloys. Nature Materials, 2019, 18, 685-690.	13.3	116
58	Antiferromagnetic Oscillators Driven by Spin Currents with Arbitrary Spin Polarization Directions. Physical Review Applied, 2019, 11, .	1.5	14
59	Enhanced perpendicular magnetocrystalline anisotropy energy in an artificial magnetic material with bulk spin-momentum coupling. Physical Review B, 2019, 99, .	1.1	16
60	Possible contribution of high-energy magnons to unidirectional magnetoresistance in metallic bilayers. Applied Physics Express, 2019, 12, 063001.	1.1	16
61	Unidirectional Magnon-Driven Domain Wall Motion Due to the Interfacial Dzyaloshinskii-Moriya Interaction. Physical Review Letters, 2019, 122, 147202.	2.9	10
62	Correlation between interfacial Dzyaloshinskii-Moriya interaction and interfacial magnetic anisotropy of Pt/Co/MgO structures. Applied Physics Express, 2019, 12, 053007.	1.1	18
63	Enhanced spin-orbit torque via interface engineering in Pt/CoFeB/MgO heterostructures. APL Materials, 2019, 7, .	2.2	48
64	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. Physical Review Letters, 2019, 122, 127203.	2.9	60
65	Magnetization switching by magnon-mediated spin torque through an antiferromagnetic insulator. Science, 2019, 366, 1125-1128.	6.0	127
66	Elimination of thermoelectric artifacts in the harmonic Hall measurement of spin-orbit torque. Physical Review B, 2019, 100, .	1.1	7
67	Topological Magnon-Phonon Hybrid Excitations in Two-Dimensional Ferromagnets with Tunable Chern Numbers. Physical Review Letters, 2019, 123, 237207.	2.9	56
68	Long spin coherence length and bulk-like spin-orbit torque in ferrimagnetic multilayers. Nature Materials, 2019, 18, 29-34.	13.3	86
69	Synthetic antiferromagnetic spintronics. Nature Physics, 2018, 14, 217-219.	6.5	280
70	Spin-orbit torques associated with ferrimagnetic order in Pt/GdFeCo/MgO layers. Scientific Reports, 2018, 8, 6017.	1.6	36
71	Dzyaloshinskii-Moriya interaction induced extrinsic linewidth broadening of ferromagnetic resonance. Physical Review B, 2018, 97, .	1.1	2
72	Roles of chiral renormalization on magnetization dynamics in chiral magnets. Physical Review B, 2018, 97, .	1.1	10

#	ARTICLE	IF	CITATIONS
73	Spin currents and spin-orbit torques in ferromagnetic trilayers. <i>Nature Materials</i> , 2018, 17, 509-513.	13.3	337
74	Spin-orbit-torque-induced skyrmion dynamics for different types of spin-orbit coupling. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 455, 14-18.	1.0	11
75	An InSb-based magnetoresistive biosensor using Fe <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 2894-2899.	4.0	8
76	Ferromagnet-Free All-Electric Spin Hall Transistors. <i>Nano Letters</i> , 2018, 18, 7998-8002.	4.5	27
77	A self-rectifying TaO <sub>y</sub> /nanoporous TaO <sub>x</sub> memristor synaptic array for learning and energy-efficient neuromorphic systems. <i>NPG Asia Materials</i> , 2018, 10, 1097-1106.	3.8	92
78	Switching of Perpendicular Magnetization via ac Spin-Orbit Torque. <i>Physical Review Applied</i> , 2018, 10, .	1.5	3
79	Complementary logic operation based on electric-field controlled spin-orbit torques. <i>Nature Electronics</i> , 2018, 1, 398-403.	13.1	100
80	Correlation of the Dzyaloshinskii-Moriya interaction with Heisenberg exchange and orbital asphericity. <i>Nature Communications</i> , 2018, 9, 1648.	5.8	60
81	Spin-Orbit Torque and Magnetic Damping in Tailored Ferromagnetic Bilayers. <i>Physical Review Applied</i> , 2018, 10, .	1.5	12
82	Ferrimagnetic Domain Wall Motion Induced by Damping-like Spin-orbit Torque. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 23, 196-200.	0.2	19
83	Spin-polarization-induced anisotropic magnetoresistance in a two-dimensional Rashba system. <i>Current Applied Physics</i> , 2017, 17, 513-516.	1.1	8
84	Current-induced modulation of backward spin-waves in metallic microstructures. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 094004.	1.3	10
85	Anomalous spin-orbit torque switching due to field-like torque-assisted domain wall reflection. <i>Science Advances</i> , 2017, 3, e1603099.	4.7	68
86	Enhancing current-induced torques by abutting additional spin polarizer layer to nonmagnetic metal layer. <i>Scientific Reports</i> , 2017, 7, 45669.	1.6	2
87	Origin of threshold current density for asymmetric magnetoresistance in Pt/Py bilayers. <i>Applied Physics Express</i> , 2017, 10, 073001.	1.1	16
88	Chiral magnetoresistance in Pt/Co/Pt zigzag wires. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	13
89	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. <i>Physical Review B</i> , 2017, 96, .	1.1	50
90	Fast domain wall motion in the vicinity of the angular momentum compensation temperature of ferrimagnets. <i>Nature Materials</i> , 2017, 16, 1187-1192.	13.3	321

#	ARTICLE	IF	CITATIONS
91	Spin-orbit torques from interfacial spin-orbit coupling for various interfaces. Physical Review B, 2017, 96, .	1.1	64
92	Magnetic domain wall motion across a step of Dzyaloshinskii-Moriya interaction. Current Applied Physics, 2017, 17, 1576-1581.	1.1	6
93	Self-focusing skyrmion racetracks in ferrimagnets. Physical Review B, 2017, 95, .	1.1	79
94	Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Physical Review B, 2017, 96, .	1.1	13
95	Enhanced spin-orbit torque by engineering Pt resistivity in $\text{Pt}/\text{Co}/\text{Pt}$ structures. Physical Review B, 2017, 96, .	1.1	65
96	Spin-wave propagation in the presence of inhomogeneous Dzyaloshinskii-Moriya interactions. Physical Review B, 2017, 96, .	1.1	20
97	Accurate analysis of harmonic Hall voltage measurement for spin-orbit torques. NPG Asia Materials, 2017, 9, e449-e449.	3.8	14
98	Observation of transverse spin Nernst magnetoresistance induced by thermal spin current in ferromagnet/non-magnet bilayers. Nature Communications, 2017, 8, 1400.	5.8	36
99	Critical switching current density induced by spin Hall effect in magnetic structures with first- and second-order perpendicular magnetic anisotropy. Scientific Reports, 2017, 7, 15314.	1.6	7
100	Magnetic droplet nucleation with a homochiral Néel domain wall. Physical Review B, 2017, 95, .	1.1	36
101	Spin-wave propagation in cubic anisotropic materials. NPG Asia Materials, 2017, 9, e392-e392.	3.8	24
102	Autoresonant magnetization switching by spin-orbit torques. Physical Review B, 2017, 95, .	1.1	2
103	Current Induced Skyrmion Dynamics via Spin Orbit Coupling Types. , 2016, , .		0
104	Detrimental Effect of Interfacial Dzyaloshinskii-Moriya Interaction on Perpendicular Spin-Transfer-Torque Magnetic Random Access Memory. , 2016, , .		0
105	Field-free switching of perpendicular magnetization through spin-orbit torque in antiferromagnet/ferromagnet/oxide structures. Nature Nanotechnology, 2016, 11, 878-884.	15.6	438
106	Observation of asymmetry in domain wall velocity under transverse magnetic field. APL Materials, 2016, 4, 032504.	2.2	11
107	Enhanced Nonadiabaticity in Vortex Cores due to the Emergent Hall Effect. Physical Review Letters, 2016, 117, 277203.	2.9	29
108	Antiferromagnetic Domain Wall Motion Driven by Spin-Orbit Torques. Physical Review Letters, 2016, 117, 087203.	2.9	201

#	ARTICLE	IF	CITATIONS
109	Spin-transfer-torque-induced zero-field microwave oscillator using a magnetic easy cone state. <i>Current Applied Physics</i> , 2016, 16, 1550-1553.	1.1	9
110	Emerging Three-Terminal Magnetic Memory Devices. <i>Proceedings of the IEEE</i> , 2016, 104, 1831-1843.	16.4	111
111	$k$ -asymmetric spin splitting at the interface between transition metal ferromagnets and heavy metals. <i>Physical Review B</i> , 2016, 93, .	1.1	48
112	Giant nonreciprocal emission of spin waves in Ta/Py bilayers. <i>Science Advances</i> , 2016, 2, e1501892.	4.7	41
113	Perpendicular magnetic anisotropy of two-dimensional Rashba ferromagnets. <i>Physical Review B</i> , 2016, 94, .	1.1	30
114	All-Electrical Measurement of Interfacial Dzyaloshinskii-Moriya Interaction Using Collective Spin-Wave Dynamics. <i>Nano Letters</i> , 2016, 16, 62-67.	4.5	91
115	Phase stability of magnonic logic operation in microfabricated metallic wires. <i>Applied Physics Express</i> , 2016, 9, 083001.	1.1	6
116	Spin-transfer-torque efficiency enhanced by edge-damage of perpendicular magnetic random access memories. <i>Journal of Applied Physics</i> , 2015, 118, 053912.	1.1	12
117	Detrimental effect of interfacial Dzyaloshinskii-Moriya interaction on perpendicular spin-transfer-torque magnetic random access memory. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	34
118	Angular dependence of spin-orbit spin-transfer torques. <i>Physical Review B</i> , 2015, 91, .	1.1	63
119	Thermal spin-transfer torque driven by the spin-dependent Seebeck effect in metallic spin-valves. <i>Nature Physics</i> , 2015, 11, 576-581.	6.5	133
120	Magnetization dynamics driven by angle-dependent spin-orbit spin-transfer torque. <i>Journal of the Korean Physical Society</i> , 2015, 67, 1848-1852.	0.3	7
121	Intrinsic spin torque without spin-orbit coupling. <i>Physical Review B</i> , 2015, 92, .	1.1	16
122	Fast current-induced motion of a transverse domain wall induced by interfacial Dzyaloshinskii-Moriya interaction. <i>Current Applied Physics</i> , 2015, 15, 1139-1142.	1.1	4
123	Role of spin diffusion in current-induced domain wall motion for disordered ferromagnets. <i>Physical Review B</i> , 2015, 91, .	1.1	23
124	Spin-orbit-torque engineering via oxygen manipulation. <i>Nature Nanotechnology</i> , 2015, 10, 333-338.	15.6	271
125	Effect of external field on current-induced skyrmion dynamics in a nanowire. <i>Journal of Applied Physics</i> , 2015, 117, 17E505.	1.1	2
126	Fermi surface distortion induced by interaction between Rashba and Zeeman effects. <i>Journal of Applied Physics</i> , 2015, 117, 17C111.	1.1	2



#	ARTICLE	IF	CITATIONS
127	Effects of Rashba and Dresselhaus spin-orbit interactions on the ground state of two-dimensional localized spins. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 196005.	0.7	7
128	Phase Diagram of a Single Skyrmion in Magnetic Nanowires. <i>IEEE Transactions on Magnetism</i> , 2014, 50, 1-4.	1.2	7
129	Thermally activated switching of perpendicular magnet by spin-orbit spin torque. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	93
130	Magnon-mediated Dzyaloshinskii-Moriya torque in homogeneous ferromagnets. <i>Physical Review B</i> , 2014, 90, .	1.1	32
131	Spin Hall torque magnetometry of Dzyaloshinskii domain walls. <i>Physical Review B</i> , 2014, 90, .	1.1	221
132	Magnetic Field Dependence of Energy Barrier of Perpendicular Nanomagnet. <i>IEEE Transactions on Magnetism</i> , 2014, 50, 1-4.	1.2	6
133	Current-induced modification of spin wave mode interference. <i>Current Applied Physics</i> , 2014, 14, 182-186.	1.1	0
134	Quantifying interface and bulk contributions to spin-orbit torque in magnetic bilayers. <i>Nature Communications</i> , 2014, 5, 3042.	5.8	257
135	Spin current generated by thermally driven ultrafast demagnetization. <i>Nature Communications</i> , 2014, 5, 4334.	5.8	158
136	Angular and temperature dependence of current induced spin-orbit effective fields in Ta/CoFeB/MgO nanowires. <i>Scientific Reports</i> , 2014, 4, 4491.	1.6	204
137	Self-consistent calculation of spin transport and magnetization dynamics. <i>Physics Reports</i> , 2013, 531, 89-113.	10.3	36
138	Effect of current-induced magnetic field on magnetization dynamics in spin-torque nano-oscillator with point-contact geometry. <i>Current Applied Physics</i> , 2013, 13, 890-893.	1.1	7
139	Chirality from Interfacial Spin-Orbit Coupling Effects in Magnetic Bilayers. <i>Physical Review Letters</i> , 2013, 111, 216601.	2.9	166
140	Current induced torques and interfacial spin-orbit coupling: Semiclassical modeling. <i>Physical Review B</i> , 2013, 87, .	1.1	420
141	Asymmetric magnetic domain-wall motion by the Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2013, 88, .	1.1	298
142	Spin-wave propagation in the presence of interfacial Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2013, 88, .	1.1	267
143	Critical switching current and thermal stability of magnetic tunnel junctions with uncompensated CoFeB/Ru/CoFeB synthetic free layers. <i>Journal of Applied Physics</i> , 2013, 113, 093906.	1.1	3
144	Threshold current for switching of a perpendicular magnetic layer induced by spin Hall effect. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	273

#	ARTICLE	IF	CITATIONS
145	Current-driven domain wall motion with spin Hall effect: Reduction of threshold current density. Applied Physics Letters, 2013, 102, 172404.	1.5	19
146	The critical role of next-nearest-neighbor interlayer interaction in the magnetic behavior of magnetic/non-magnetic multilayers. New Journal of Physics, 2013, 15, 123025.	1.2	8
147	Spin wave nonreciprocity for logic device applications. Scientific Reports, 2013, 3, 3160.	1.6	162
148	Current-induced torques and interfacial spin-orbit coupling. Physical Review B, 2013, 88, .	1.1	121
149	Spin motive force induced by Rashba interaction in the strong $s$ - $d$ coupling regime. Physical Review B, 2013, 87, .	1.1	48
150	Effect of enhanced damping caused by spin-motive force on vortex dynamics. Journal of Applied Physics, 2012, 111, 07D120.	1.1	5
151	Current-induced synchronized switching of magnetization. Applied Physics Letters, 2012, 101, 062408.	1.5	14
152	Magnetotransport properties of dual MgO barrier magnetic tunnel junctions consisting of CoFeB/FeNiSiB/CoFeB free layers. Applied Physics Letters, 2012, 101, 232401.	1.5	8
153	Attenuation of propagating spin wave induced by layered nanostructures. Applied Physics Letters, 2012, 100, .	1.5	6
154	Metastable magnetic domain wall dynamics. New Journal of Physics, 2012, 14, 033010.	1.2	13
155	Electrical Detection of Polarity and Chirality of a Magnetic Vortex Using Spin-Motive Force Caused by Rashba Spin-Orbit Coupling. Applied Physics Express, 2012, 5, 123002.	1.1	1
156	Current-induced motion of a transverse magnetic domain wall in the presence of spin Hall effect. Applied Physics Letters, 2012, 101, .	1.5	75
157	Prediction of Giant Spin Motive Force due to Rashba Spin-Orbit Coupling. Physical Review Letters, 2012, 108, 217202.	2.9	90
158	Time-Domain Measurement of Current-Induced Spin Wave Dynamics. Physical Review Letters, 2012, 108, 017203.	2.9	72
159	Magnetization dynamics induced by in-plane currents in ultrathin magnetic nanostructures with Rashba spin-orbit coupling. Physical Review B, 2012, 85, .	1.1	203
160	Rashba spin-orbit coupling effects on a current-induced domain wall motion. Journal of Magnetism and Magnetic Materials, 2012, 324, 1449-1452.	1.0	17
161	Three-Dimensional Dynamics of Magnetic Vortex Core in a Nanodisk. Journal of the Korean Magnetics Society, 2012, 22, 195-199.	0.0	1
162	Current-induced magnetization switching of synthetic antiferromagnetic free layer in magnetic tunnel junctions. Journal of Applied Physics, 2011, 109, 07C904.	1.1	8

#	ARTICLE	IF	CITATIONS
163	Micromagnetic modelling on magnetization dynamics in nanopillars driven by spin-transfer torque. Journal Physics D: Applied Physics, 2011, 44, 384001.	1.3	9
164	Magnetic vortex wall motion driven by spin waves. Applied Physics Letters, 2011, 98, .	1.5	40
165	Switching phase diagrams of current-induced magnetization switching in asymmetric MgO-based magnetic tunnel junctions. Journal Physics D: Applied Physics, 2011, 44, 064008.	1.3	4
166	Interface Effect of Magnetic Properties in Ni Nanoparticles with a hcp Core and fcc Shell Structure. Journal of Nanoscience and Nanotechnology, 2011, 11, 6126-6130.	0.9	9
167	Influence of interface state in Fe/MgO/Fe magnetic tunnel junction system: C modified interfacesâ€”a first principle study. Journal of Applied Physics, 2011, 109, 083714.	1.1	9
168	Magnetic Domain Wall Oscillator With Current-Perpendicular-to-Plane Geometry. IEEE Transactions on Magnetics, 2011, 47, 3085-3088.	1.2	1
169	Effect of Wavy Spin-Transfer Torque on Ultrafast Unipolar Switching of a Nanomagnet With Out-of-Plane Polarizer. IEEE Transactions on Magnetics, 2011, 47, 3872-3875.	1.2	4
170	Synaptic behaviors of a single metalâ€”oxideâ€”metal resistive device. Applied Physics A: Materials Science and Processing, 2011, 102, 1019-1025.	1.1	44
171	In Situ Observation of Voltageâ€”Induced Multilevel Resistive Switching in Solid Electrolyte Memory. Advanced Materials, 2011, 23, 3272-3277.	11.1	169
172	Current-induced oscillation of a magnetic domain wall: Effect of damping enhanced by magnetization dynamics. Current Applied Physics, 2011, 11, 61-64.	1.1	17
173	Effect of spin diffusion on current generated by spin motive force. Physical Review B, 2011, 84, .	1.1	10
174	Spin Hall effect-driven spin torque in magnetic textures. Applied Physics Letters, 2011, 99, 022504.	1.5	10
175	Static and dynamic depinning processes of a magnetic domain wall from a pinning potential. Physical Review B, 2011, 84, .	1.1	28
176	Measurement of perpendicular spin torque at high bias via the pulsed switching phase diagram. Physical Review B, 2011, 84, .	1.1	15
177	Effect of nonadiabatic spin transfer torque on domain wall resonance frequency and mass. Applied Physics Letters, 2011, 98, 092501.	1.5	14
178	<i>In situ</i> observation of vacancy dynamics during resistance changes of oxide devices. Journal of Applied Physics, 2011, 110, .	1.1	18
179	Effect of Energy Barrier Distribution on Current-Induced Magnetization Switching with Short Current Pulses. Journal of the Korean Magnetics Society, 2011, 21, 48-51.	0.0	1
180	Spin-Motive Force Caused by Vortex Gyration in a Circular Nanodisk with Holes. Journal of Magnetics, 2011, 16, 6-9.	0.2	3

#	ARTICLE	IF	CITATIONS
181	Effect of Interface Roughness on Exchange Bias of an Uncompensated Interface: Monte Carlo Simulation. Journal of Magnetism and Magnetic Materials, 2011, 16, 323-327.	0.2	6
182	Catalytic Conversion of 1,2-Dichlorobenzene Over Mesoporous Materials from Zeolite. Journal of Nanoscience and Nanotechnology, 2010, 10, 3639-3642.	0.9	5
183	Signatures of asymmetric and inelastic tunneling on the spin torque bias dependence. Physical Review B, 2010, 82, .	1.1	19
184	Effect of Angular Dependence of Spin-Transfer Torque on Zero-Field Microwave Oscillation in Symmetric Spin-Valves. IEEE Transactions on Magnetics, 2010, 46, 2349-2352.	1.2	11
185	Effect of Enhanced Damping Due to Spin-Motive Force on Field-Driven Domain Wall Motion. IEEE Transactions on Magnetics, 2010, 46, 2167-2170.	1.2	6
186	Demonstration of ultra-high-resolution MFM images using Co90Fe10-coated CNT probes. Journal of Magnetism and Magnetic Materials, 2010, 322, 332-336.	1.0	6
187	Effect of the resistance-area product on the temperature increase of nanopillar for spin torque magnetic memory. Current Applied Physics, 2010, 10, 659-663.	1.1	8
188	Controllable chirality switching of a moving domain wall by oblique magnetic field. Applied Physics Letters, 2010, 97, 032507.	1.5	11
189	Nonreciprocal emission of spin-wave packet in FeNi film. Applied Physics Letters, 2010, 97, .	1.5	100
190	Magnetic vortex dynamics on a picoseconds timescale in a hexagonal Permalloy pattern. Journal of Applied Physics, 2010, 107, 09D302.	1.1	2
191	Calculation of the magnetization oscillation frequency in a nanostructured synthetic ferrimagnet. Journal Physics D: Applied Physics, 2010, 43, 075001.	1.3	7
192	Spin wave assisted current induced magnetic domain wall motion. Applied Physics Letters, 2010, 96, .	1.5	49
193	Numerical Study on Current-Induced Switching of Synthetic Antiferromagnet. Journal of Magnetism and Magnetic Materials, 2010, 15, 149-154.	0.2	2
194	Current-induced resonant motion of a magnetic vortex core: Effect of nonadiabatic spin torque. Physical Review B, 2009, 79, .	1.1	8
195	Fabrication of oxidation-free contacts to nanopatterned Permalloy structures. Journal of Vacuum Science & Technology B, 2009, 27, 2487.	1.3	0
196	Effects of SiO <sub>2</sub> Addition in FePt on Microstructures and Magnetic Properties on Two Different MgO Substrates. IEEE Transactions on Magnetics, 2009, 45, 2705-2708.	1.2	1
197	Current-Induced Domain-Wall Motion in [CoFe/Pt] <sub>5</sub> Nanowire With Perpendicular Magnetic Anisotropy. IEEE Transactions on Magnetics, 2009, 45, 3773-3775.	1.2	13
198	Reduction in switching current density for current-induced magnetization switching without loss of thermal stability: Effect of perpendicular anisotropy. Current Applied Physics, 2009, 9, 985-988.	1.1	11

#	ARTICLE	IF	CITATIONS
199	Bias-voltage dependence of perpendicular spin-transfer torque in asymmetric MgO-based magnetic tunnel junctions. <i>Nature Physics</i> , 2009, 5, 898-902.	6.5	193
200	Pyrolysis characteristics of Oriental white oak: Kinetic study and fast pyrolysis in a fluidized bed with an improved reaction system. <i>Fuel Processing Technology</i> , 2009, 90, 186-195.	3.7	98
201	Current-Induced Control of Spin-Wave Attenuation. <i>Physical Review Letters</i> , 2009, 102, 147202.	2.9	94
202	Nanoparticle Assemblies as Memristors. <i>Nano Letters</i> , 2009, 9, 2229-2233.	4.5	158
203	Ferromagnetic Resonance Frequency of a Patterned Synthetic Antiferromagnet. <i>Journal of the Korean Physical Society</i> , 2009, 54, 1630-1634.	0.3	6
204	Effect of Spin Memory Loss on Spin-Transfer Torque. <i>Journal of the Korean Physical Society</i> , 2009, 55, 1501-1508.	0.3	7
205	Attempt Frequency of Magnetization in Synthetic Antiferromagnet. <i>Journal of the Korean Magnetics Society</i> , 2009, 19, 1-4.	0.0	5
206	Current-induced Spin Wave Excitations in Asymmetric Nanopillar Junctions. <i>Journal of Magnetism</i> , 2009, 14, 90-92.	0.2	3
207	Effect of Magnetic Property Modification on Current-Induced Magnetization Switching with Perpendicular Magnetic Layers and Polarization-Enhancement Layers. <i>Journal of Magnetism</i> , 2009, 14, 104-107.	0.2	2
208	Effects of external field on the dynamic magnetization switching of a nanostructured exchange-coupled trilayer. <i>Applied Physics Letters</i> , 2008, 93, 112503.	1.5	5
209	Current-induced domain wall motion in a nanowire with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2008, 92, 202508.	1.5	185
210	Effects of the thickness asymmetry of nanostructured exchange-coupled trilayers on their dynamic magnetization switching. <i>Applied Physics Letters</i> , 2008, 93, 152507.	1.5	5
211	Current-induced flip-flop of magnetization in magnetic tunnel junction with perpendicular magnetic layers and polarization-enhancement layers. <i>Applied Physics Letters</i> , 2008, 93, 232506.	1.5	14
212	Attempt frequency of magnetization in nanomagnets with thin-film geometry. <i>Physical Review B</i> , 2008, 78, .	1.1	26
213	Effect of the Perpendicular Magnetic Field and Nonadiabatic Spin-transfer Torque on the Vortex Dynamics. <i>Journal of Magnetism</i> , 2008, 13, 157-159.	0.2	0
214	Spin Torque and Force due to Current for General Spin Textures. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 054707.	0.7	84
215	Effect of shape anisotropy on threshold current density for current-induced domain wall motion. <i>Applied Physics Letters</i> , 2007, 90, 252508.	1.5	35
216	Current-induced magnetic switching in nanopillar spin-valve systems with double free layers. <i>Journal of Applied Physics</i> , 2007, 101, 09A512.	1.1	0

#	ARTICLE	IF	CITATIONS
217	Enhanced switching current density due to resonant precession in current-induced magnetization switching. <i>Applied Physics Letters</i> , 2007, 90, 212504.	1.5	3
218	Micromagnetic investigation of current-driven magnetic excitation in a spin valve structure. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 165211.	0.7	3
219	Effect of ac on current-induced domain wall motion. <i>Journal of Applied Physics</i> , 2007, 101, 09A504.	1.1	1
220	Oscillatory domain wall velocity of current-induced domain wall motion. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2032-2034.	1.0	4
221	Vortex dynamics in submicron exchange-biased disks. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4491-4494.	0.7	2
222	Effect of aspect ratio of nanostrip on transformation of transverse domain wall due to adiabatic spin torque. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4460-4463.	0.7	1
223	Domain wall pinning by alternating materials in current-induced domain wall motion. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4439-4442.	0.7	2
224	Exchange biased spin polarizer with an embedded nano-oxide layer for a substantially lower switching current density. <i>Applied Physics Letters</i> , 2006, 89, 094103.	1.5	8
225	Reduction in critical current density of current-induced magnetization switching. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, 102-105.	1.0	5
226	Effect of the Angle-Dependent Gilbert Damping Constant on the Magnetization Dynamics Induced by a Spin Polarized Current. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 3207-3209.	1.2	3
227	Spin transfer torque in nanopillar spin-valve with [CoFe/Pd] <sub>2</sub> double free-layers. , 2006, , .		0
228	Micromagnetic investigation of the dynamics of magnetization switching induced by a spin polarized current. <i>Applied Physics Letters</i> , 2006, 88, 132506.	1.5	32
229	Current-induced magnetization switching in exchange-biased spin valves for current-perpendicular-to-plane giant magnetoresistance heads. <i>Physical Review B</i> , 2006, 73, .	1.1	28
230	Spin transfer effects in exchange-biased spin-valves for current-perpendicular-to-plane magnetoresistive heads. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 290-291, 42-47.	1.0	12
231	Magnetic and recording characteristics of perpendicular magnetic media with different anisotropy orientation dispersions. <i>Journal of Applied Physics</i> , 2005, 97, 10N503.	1.1	4
232	Vortex-antivortex assisted magnetization dynamics in a semi-continuous thin-film model system studied by micromagnetic simulations. <i>Applied Physics Letters</i> , 2005, 86, 052504.	1.5	18
233	Analytical investigation of spin-transfer dynamics using a perpendicular-to-plane polarizer. <i>Applied Physics Letters</i> , 2005, 86, 022505.	1.5	175
234	Anomalous switching in submicrometer magnetic tunnel junction arrays arising from magnetic vortex and domain wall pinning. <i>Journal of Applied Physics</i> , 2004, 96, 1748-1750.	1.1	18

#	ARTICLE	IF	CITATIONS
235	Spin transfer effect in spin-valve pillars for current-perpendicular-to-plane magnetoresistive heads (invited). Journal of Applied Physics, 2004, 95, 7423-7428.	1.1	27
236	Excitations of incoherent spin-waves due to spin-transfer torque. Nature Materials, 2004, 3, 877-881.	13.3	225
237	Effects of soft underlayer on read/write properties in double-layered perpendicular recording media. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2291-2293.	1.0	6
238	Transition and DC noise characteristics of longitudinal oriented media. IEEE Transactions on Magnetics, 2003, 39, 2264-2266.	1.2	7
239	Kink-free design of submicrometer MRAM cell. IEEE Transactions on Magnetics, 2003, 39, 2842-2844.	1.2	13
240	Effect of crystallographic orientation dispersion on media thermal stability and recording characteristics. IEEE Transactions on Magnetics, 2002, 38, 1955-1957.	1.2	5
241	Optimum design rule of hysteresis loop for ultrahigh density recording in single-layered perpendicular media. IEEE Transactions on Magnetics, 2002, 38, 801-804.	1.2	19
242	Effect of thermal fluctuations on switching field of deep submicron sized soft magnetic thin film. Journal of Applied Physics, 2002, 91, 7706.	1.1	6
243	Recording physics of perpendicular recording with single layered medium and ring head. Journal of Applied Physics, 2002, 91, 8700.	1.1	2
244	Enhanced exchange coupling constant and thermal stability of antiferromagnetically coupled media with thin Co interlayers. Journal of Applied Physics, 2002, 91, 8617.	1.1	4
245	Spin tilting phenomenon in strongly coupled AFC media. IEEE Transactions on Magnetics, 2002, 38, 2087-2089.	1.2	2
246	Numerical study of spin relaxation by thermal fluctuation: Effect of shape anisotropy. Journal of Applied Physics, 2001, 89, 7460-7462.	1.1	7
247	Effects of magnetic layer thickness on negative nucleation field and Cr segregation behavior in CoCrPt/Ti perpendicular media. Journal of Magnetism and Magnetic Materials, 2001, 235, 297-304.	1.0	9
248	Novel simulation model for perpendicular magnetic recording. Journal of Magnetism and Magnetic Materials, 2001, 235, 398-402.	1.0	9
249	Head design scheme for perpendicular recording with single layered media. IEEE Transactions on Magnetics, 2001, 37, 1382-1385.	1.2	7
250	Simulation of remanent coercivity behavior of a bicrystal medium in the range of nanosecond field pulse time. IEEE Transactions on Magnetics, 1999, 35, 2733-2735.	1.2	1
251	Effects of magnetic interactions on the distribution of energy barriers in the time dependence of magnetization of a magnetic thin film. Journal of Applied Physics, 1999, 85, 5003-5005.	1.1	3
252	Practical method to obtain the particle density distribution in scalar Preisach model. IEEE Transactions on Magnetics, 1997, 33, 1600-1603.	1.2	3

#	ARTICLE	IF	CITATIONS
253	Effect of a Cr interlayer on properties of CoCrTa/Cr media: experiments and simulations. IEEE Transactions on Magnetics, 1996, 32, 3602-3604.	1.2	2
254	Basic Spintronic Transport Phenomena. , 0, , 1-28.		2