Johan Ãkerman

List of Publications by Year
in descending order

279	10,733	38660 50	40881 93
papers	citations	h-index	g-index

283	283	283	7163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	APPLIED PHYSICS: Toward a Universal Memory. Science, 2005, 308, 508-510.	6.0	488
2	Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459.	13.1	471
3	A 4-Mb toggle MRAM based on a novel bit and switching method. IEEE Transactions on Magnetics, 2005, 41, 132-136.	1.2	394
4	The 2014 Magnetism Roadmap. Journal Physics D: Applied Physics, 2014, 47, 333001.	1.3	329
5	Direct observation of a propagating spin wave induced by spin-transfer torque. Nature Nanotechnology, 2011, 6, 635-638.	15.6	321
6	Spin-Torque and Spin-Hall Nano-Oscillators. Proceedings of the IEEE, 2016, 104, 1919-1945.	16.4	276
7	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	2.0	243
8	Spin Torqueâ€“Generated Magnetic Droplet Solitons. Science, 2013, 339, 1295-1298.	6.0	237
9	Roadmap of Spinâ€“Orbit Torques. IEEE Transactions on Magnetics, 2021, 57, 1-39.	1.2	225
10	Long-range mutual synchronization of spin Hall nano-oscillators. Nature Physics, 2017, 13, 292-299.	6.5	221
11	Designer Magnetoplasmonics with Nickel Nanoferromagnets. Nano Letters, 2011, 11, 5333-5338.	4.5	203
12	Two-dimensional mutually synchronized spin Hall nano-oscillator arrays for neuromorphic computing. Nature Nanotechnology, 2020, 15, 47-52.	15.6	181
13	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	1.2	179
14	Experimental Evidence of Self-Localized and Propagating Spin Wave Modes in Obliquely Magnetized Current-Driven Nanocontacts. Physical Review Letters, 2010, 105, 217204.	2.9	176
15	Plasmonic Nickel Nanoantennas. Small, 2011, 7, 2341-2347.	5.2	175
16	Dynamically stabilized magnetic skyrmions. Nature Communications, 2015, 6, 8193.	5.8	173
17	Ultrasensitive and label-free molecular-level detection enabled by light phase control in magnetoplasmonic nanoantennas. Nature Communications, 2015, 6, 6150.	5.8	172
18	Interfacial Dzyaloshinskii-Moriya Interaction in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi>CoFeB</mml:mi></mml:mrow></mml:math> Films: Effect of the Heavy-Metal Thickness. Physical Review Letters, 2017, 118, 147201.	2.9	165

#	Article	IF	Citations
19	Spin torque oscillator frequency versus magnetic field angle: The prospect of operation beyond 65 GHz. Applied Physics Letters, 2009, 94, .	1.5	158
20	Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. Nature Nanotechnology, 2016, 11, 280-286.	15.6	119
21	Tuning the Magneto-Optical Response of Nanosize Ferromagnetic Ni Disks Using the Phase of Localized Plasmons. Physical Review Letters, 2013, 111, 167401.	2.9	111
22	Spin-torque oscillator with tilted fixed layer magnetization. Applied Physics Letters, 2008, 92, .	1.5	102
23	XRD cation distribution and magnetic properties of mesoporous Zn-substituted CuFe2O4. Ceramics International, 2014, 40, 3619-3625.	2.3	102
24	Mutually synchronized bottom-up multi-nanocontact spinâ€“torque oscillators. Nature Communications, 2013, 4, 2731.	5.8	98
25	Spin-Wave-Mode Coexistence on the Nanoscale: A Consequence of the Oersted-Field-Induced Asymmetric Energy Landscape. Physical Review Letters, 2013, 110, 257202.	2.9	98
26	Magnetoplasmonic Design Rules for Active Magneto-Optics. Nano Letters, 2014, 14, 7207-7214.	4.5	94
27	Partition Controlled Delivery of Hydrophobic Substances in Toxicity Tests Using Poly(dimethylsiloxane) (PDMS) Films. Environmental Science & Technology, 2001, 35, 4097-4102.	4.6	92
28	Nonlinear frequency and amplitude modulation of a nanocontact-based spin-torque oscillator. Physical Review B, 2010, 81, .	1.1	89
29	[Co/Pd]â€“NiFe exchange springs with tunable magnetization tilt angle. Applied Physics Letters, 2011, 98, 172502.	1.5	82
30	Spin-orbit torqueâ€“driven propagating spin waves. Science Advances, 2019, 5, eaax8467.	4.7	77
31	High frequency operation of a spinâ€torque oscillator at low field. Physica Status Solidi - Rapid Research Letters, 2011, 5, 432-434.	1.2	75
32	MgO-based tunnel junction material for high-speed toggle magnetic random access memory. IEEE Transactions on Magnetics, 2006, 42, 1935-1939.	1.2	73
33	CoFeB-Based Spin Hall Nano-Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	71
34	Phase-locked spin torque oscillators: Impact of device variability and time delay. Journal of Applied Physics, 2007, 101, 09A503.	1.1	69
35	A single layer spin-orbit torque nano-oscillator. Nature Communications, 2019, 10, 2362.	5.8	66
36	Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. Nature Materials, 2022, 21, 81-87.	13.3	63

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37	Zero-field precession and hysteretic threshold currents in a spin torque nano device with tilted polarizer. New Journal of Physics, 2009, 11, 103028.	1.2	62
38	Tunable permalloy-based films for magnonic devices. Physical Review B, 2015, 92, .	1.1	61
39	Ultra-fast artificial neuron: generation of picosecond-duration spikes in a current-driven antiferromagnetic auto-oscillator. Scientific Reports, 2018, 8, 15727.	1.6	61
40	Tunable intrinsic phase of a spin torque oscillator. Applied Physics Letters, 2008, 92, .	1.5	60
41	Hysteresis and fractional matching in thin Nb films with rectangular arrays of nanoscaled magnetic dots. Physical Review B, 2002, 65, .	1.1	57
42	Demonstrated Reliability of 4-Mb MRAM. IEEE Transactions on Device and Materials Reliability, 2004, 4, 428-435.	1.5	57
43	Perpendicular spin torque promotes synchronization of magnetic tunnel junction based spin torque oscillators. Applied Physics Letters, 2009, 94, .	1.5	57
44	Tunneling criteria for magnetic-insulator-magnetic structures. Applied Physics Letters, 2001, 79, 3104-3106.	1.5	56
45	A 20 nm spin Hall nano-oscillator. Nanoscale, 2017, 9, 1285-1291.	2.8	55
46	Criteria for ferromagneticâ€“insulatorâ€“ferromagnetic tunneling. Journal of Magnetism and Magnetic Materials, 2002, 240, 86-91.	1.0	54
47	Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, .	1.5	54
48	Continuously graded anisotropy in single (Fe53Pt47)100â^'xCux films. Applied Physics Letters, 2010, 97, .	1.5	53
49	Confined Dissipative Droplet Solitons in Spin-Valve Nanowires with Perpendicular Magnetic Anisotropy. Physical Review Letters, 2014, 112, 047201.	2.9	53
50	Origin of Magnetization Auto-Oscillations in Constriction-Based Spin Hall Nano-Oscillators. Physical Review Applied, 2018, 9, .	1.5	52
51	Surface-energy triggered phase formation and epitaxy in nanometer-thick Ni1â^'xPtx silicide films. Applied Physics Letters, 2010, 96, .	1.5	51
52	Decoherence and Mode Hopping in a Magnetic Tunnel Junction Based Spin Torque Oscillator. Physical Review Letters, 2012, 108, 207203.	2.9	51
53	Intrinsic phase shift between a spin torque oscillator and an alternating current. Journal of Applied Physics, 2007, 101, 09A510.	1.1	50
54	Power and linewidth of propagating and localized modes in nanocontact spin-torque oscillators. Physical Review B, 2012, 85, .	1.1	49

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55	Tunable damping, saturation magnetization, and exchange stiffness of half-Heusler NiMnSb thin films. Physical Review B, 2015, 92, .	1.1	49
56	Pseudo spin valves based on L10 (111)-oriented FePt fixed layers with tilted anisotropy. Applied Physics Letters, 2009, 94, 163108.	1.5	48
57	Domain dynamics and fluctuations in artificial square ice at finite temperatures. New Journal of Physics, 2012, 14, 035014.	1.2	48
58	Active Magnetoplasmonic Ruler. Nano Letters, 2015, 15, 3204-3211.	4.5	48
59	Giant voltage-controlled modulation of spin Hall nano-oscillator damping. Nature Communications, 2020, 11, 4006.	5.8	48
60	Spin transfer torque generated magnetic droplet solitons (invited). Journal of Applied Physics, 2014, 115, .	1.1	47
61	CMOS compatible W/CoFeB/MgO spin Hall nano-oscillators with wide frequency tunability. Applied Physics Letters, 2018, 112, .	1.5	47
62	Thickness- and temperature-dependent magnetodynamic properties of yttrium iron garnet thin films. Journal of Applied Physics, 2015, 117, .	1.1	46
63	Magnetic droplet nucleation boundary in orthogonal spin-torque nano-oscillators. Nature Communications, 2016, 7, 11209.	5.8	46
64	Microwave generation of tilted-polarizer spin torque oscillator. Journal of Applied Physics, 2009, 105, 07D116.	1.1	45
65	Nanowaveguides and couplers based on hybrid plasmonic modes. Applied Physics Letters, 2010, 97, .	1.5	45
66	Ultrafast Ising Machines using spin torque nano-oscillators. Applied Physics Letters, 2021, 118, .	1.5	45
67	Bias dependence of perpendicular spin torque and of free- and fixed-layer eigenmodes in MgO-based nanopillars. Physical Review B, 2011, 83, .	1.1	43
68	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. Nature Communications, 2018, 9, 4374.	5.8	43
69	Oscillatory transient regime in the forced dynamics of a nonlinear auto oscillator. Physical Review B, 2010, 82, .	1.1	42
70	Spin-torque oscillator linewidth narrowing under current modulation. Applied Physics Letters, 2011, 98, 192506.	1.5	42
71	Frequency modulation of spin torque oscillator pairs. Applied Physics Letters, 2011, 98, 192501.	1.5	41
72	Origin of temperature dependence in tunneling magnetoresistance. Europhysics Letters, 2003, 63, 104-110.	0.7	40

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73	Nanostructured MnGa films on Si/SiO2 with 20.5 kOe room temperature coercivity. Journal of Applied Physics, 2011, 110, .	1.1	40
74	Role of boron diffusion in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, .	1.1	40
75	Impact of interfacial roughness on tunneling conductance and extracted barrier parameters. Applied Physics Letters, 2007, 90, 043513.	1.5	38
76	Spin Torque Oscillators and RF Currentsâ€"Modulation, Locking, and Ringing. Integrated Ferroelectrics, 2011, 125, 147-154.	0.3	38
77	Spin transfer torque ferromagnetic resonance induced spin pumping in the Fe/Pd bilayer system. Physical Review B, 2017, 95, .	1.1	36
78	Ultra-fast logic devices using artificial â€œneuronsâ€•based on antiferromagnetic pulse generators. Journal of Applied Physics, 2018, 124, .	1.1	36
79	Magnetic droplet solitons in orthogonal nano-contact spin torque oscillators. Physica B: Condensed Matter, 2014, 435, 84-87.	1.3	35
80	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. Optics Express, 2013, 21, 9875.	1.7	34
81	Subterahertz ferrimagnetic spin-transfer torque oscillator. Physical Review B, 2019, 100, .	1.1	34
82	Phase-Binarized Spin Hall Nano-Oscillator Arrays: Towards Spin Hall Ising Machines. Physical Review Applied, 2022, 17, .	1.5	33
83	First-order reversal curve analysis of graded anisotropy FePtCu films. Applied Physics Letters, 2010, 97, 202501.	1.5	32
84	Propagating spin waves excited by spin-transfer torque: A combined electrical and optical study. Physical Review B, 2015, 92, .	1.1	32
85	Parametric autoexcitation of magnetic droplet soliton perimeter modes. Physical Review B, 2017, 95, .	1.1	32
86	Tunable spin configuration in [Co/Ni]-NiFe spring magnets. Journal Physics D: Applied Physics, 2013, 46, 125004.	1.3	31
87	Modulation of Individual and Mutually Synchronized Nanocontact-Based Spin Torque Oscillators. IEEE Transactions on Magnetics, 2011, 47, 1575-1579.	1.2	30
88	Nanostructures and the proximity effect. Journal Physics D: Applied Physics, 2002, 35, 2398-2402.	1.3	29
89	Probing vertically graded anisotropy in FePtCu films. Physical Review B, 2011, 84, .	1.1	28
90	Intrinsic frequency doubling in a magnetic tunnel junctionâ€"based spin torque oscillator. Journal of Applied Physics, 2011, 110, .	1.1	28

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91	Generation linewidth of mode-hopping spin torque oscillators. Physical Review B, 2014, 89, .	1.1	28
92	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. Applied Physics Letters, 2014, 104, 092405.	1.5	28
93	Auto-oscillating Spin-Wave Modes of Constriction-Based Spin Hall Nano-oscillators in Weak In-Plane Fields. Physical Review Applied, 2018, 10, .	1.5	28
94	Origin of the breakdown of Wentzel-Kramers-Brillouin-based tunneling models. Physical Review B, 2006, 74, .	1.1	27
95	Magnetic properties of crystalline mesoporous Zn-substituted copper ferrite synthesized under nanoconfinement in silica matrix. Microporous and Mesoporous Materials, 2014, 190, 346-355.	2.2	27
96	Direct Observation of Zhang-Li Torque Expansion of Magnetic Droplet Solitons. Physical Review Letters, 2018, 120, 217204.	2.9	27
97	Spin wave excitations in exchange-coupled [Co/Pd]-NiFe films with tunable tilting of the magnetization. Physical Review B, 2013, 87, .	1.1	25
98	Au/NiFe magnetoplasmonics: Large enhancement of magneto-optical kerr effect for magnetic field sensors and memories. Electronic Materials Letters, 2015, 11, 440-446.	1.0	25
99	Effect of flattened surface morphology of anodized aluminum oxide templates on the magnetic properties of nanoporous Co/Pt and Co/Pd thin multilayered films. Applied Surface Science, 2018, 427, 649-655.	3.1	25
100	Improved magnetoresistance through spacer thickness optimization in tilted pseudo spin valves based on L10 (111)-oriented FePtCu fixed layers. Journal of Applied Physics, 2009, 106, 053909.	1.1	24
101	Temperature dependence of linewidth in nanocontact based spin torque oscillators: Effect of multiple oscillatory modes. Physical Review B, 2012, 86, .	1.1	24
102	Magnetic structure and anisotropy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mo>[</mml:mo> Physical Review B, 2015, 91, .	1.1	24
103	Merging droplets in double nanocontact spin torque oscillators. Physical Review B, 2016, 93, .	1.1	24
104	Pseudo-spin-valve with L10 (111)-oriented FePt fixed layer. Journal of Applied Physics, 2009, 105, 07E910.	1.1	23
105	[Co/Pd]4â€“Coâ€“Pdâ€“NiFe spring magnets with highly tunable and uniform magnetization tilt angles. Journal of Magnetism and Magnetic Materials, 2012, 324, 3929-3932.	1.0	23
106	Effects of a nonâ€absorbing substrate on the magnetoâ€optical Kerr response of plasmonic ferromagnetic nanodisks. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1067-1075.	0.8	23
107	Enhanced skyrmion motion via strip domain wall. Physical Review B, 2020, 101, .	1.1	23
108	Current induced vortices in multi-nanocontact spin-torque devices. Journal of Applied Physics, 2011, 109, .	1.1	22

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109	Depth-Dependent Magnetization Profiles of Hybrid Exchange Springs. Physical Review Applied, 2014, 2, .	1.5	22
110	Exponentially decaying magnetic coupling in sputtered thin film FeNi/Cu/FeCo trilayers. Applied Physics Letters, 2015, 106, .	1.5	22
111	Enhancement of spin-torque diode sensitivity in a magnetic tunnel junction by parametric synchronization. Applied Physics Letters, 2016, 108, .	1.5	22
112	Reversal mode instability and magnetoresistance in perpendicular (Co/Pd)/Cu/(Co/Ni) pseudo-spin-valves. Applied Physics Letters, 2013, 103, .	1.5	21
113	Magnetic droplet solitons in orthogonal spin valves. Low Temperature Physics, 2015, 41, 833-837.	0.2	21
114	Mode-coupling mechanisms in nanocontact spin-torque oscillators. Physical Review B, 2015, 91, .	1.1	21
115	Width dependent auto-oscillating properties of constriction based spin Hall nano-oscillators. Applied Physics Letters, 2020, 116, .	1.5	21
116	Temperature-dependent interlayer coupling in Ni/Co perpendicular pseudo-spin-valve structures. Physical Review B, 2011, 84, .	1.1	20
117	Macrospin and micromagnetic studies of tilted polarizer spin-torque nano-oscillators. Journal of Applied Physics, 2012, 112, 063903.	1.1	20
118	Mode-hopping mechanism generating colored noise in a magnetic tunnel junction based spin torque oscillator. Applied Physics Letters, 2014, 105, 132404.	1.5	20
119	Flux pinning by regular nanostructures in Nb thin films: Magnetic vs. structural effects. Europhysics Letters, 2003, 63, 118-124.	0.7	19
120	Capacitance Enhanced Synchronization of Pairs of Spin-Transfer Oscillators. IEEE Transactions on Magnetics, 2009, 45, 2421-2423.	1.2	19
121	Nano-Contact Spin-Torque Oscillators as Magnonic Building Blocks. Topics in Applied Physics, 2013, , 177-187.	0.4	19
122	Channelling spin waves. Nature Nanotechnology, 2014, 9, 503-504.	15.6	19
123	Current Modulation of Nanoconstriction Spin-Hall Nano-Oscillators. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	19
124	Reduced spin torque nano-oscillator linewidth using He + irradiation. Applied Physics Letters, 2020, 116, 072403.	1.5	19
125	Multiple synchronization attractors of serially connected spin-torque nanooscillators. Physical Review B, 2012, 86, .	1.1	18
126	Effect of nanoconfinement on the formation, structural transition and magnetic behavior of mesoporous copper ferrite. Journal of Alloys and Compounds, 2014, 598, 191-197.	2.8	18

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127	Parametric excitation in a magnetic tunnel junction-based spin torque oscillator. Applied Physics Letters, 2014, 104, .	1.5	18
128	Modulation Rate Study in a Spin-Torque Oscillator-Based Wireless Communication System. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	18
129	Direct observation of magnetization dynamics generated by nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	18
130	Ferromagnetic and Spin-Wave Resonance on Heavy-Metal-Doped Permalloy Films: Temperature Effects. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	18
131	Dynamic Spin-Polarized Resonant Tunneling in Magnetic Tunnel Junctions. Physical Review Letters, 2007, 99, 047206.	2.9	17
132	Development of a polydimethylsiloxane filmâ€based passive dosing method in the in vitro DRâ€CALUXÂ® assay. Environmental Toxicology and Chemistry, 2011, 30, 898-904.	2.2	17
133	Decoherence, Mode Hopping, and Mode Coupling in Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4398-4404.	1.2	17
134	[Co/Pd]-CoFeB exchange spring magnets with tunable gap of spin wave excitations. Journal Physics D: Applied Physics, 2014, 47, 495004.	1.3	17
135	Order of magnitude improvement of nano-contact spin torque nano-oscillator performance. Nanoscale, 2017, 9, 1896-1900.	2.8	17
136	A high-speed single sideband generator using a magnetic tunnel junction spin torque nano-oscillator. Scientific Reports, 2017, 7, 13422.	1.6	17
137	Magnetic droplet soliton nucleation in oblique fields. Physical Review B, 2018, 97, .	1.1	17
138	Femtosecond Laser Pulse Driven Caustic Spin Wave Beams. Physical Review Letters, 2021, 126, 037204.	2.9	17
139	A 0.18 Î¼m 4Mb toggling MRAM. , 0, , .		16
140	Nonvolatile Magnetoresistive Random-Access Memory Based on Magnetic Tunnel Junctions. MRS Bulletin, 2004, 29, 818-821.	1.7	16
141	Non-stationary excitation of two localized spin-wave modes in a nano-contact spin torque oscillator. Journal of Applied Physics, 2013, 114, 153906.	1.1	16
142	Accessing different spin-disordered states using first-order reversal curves. Physical Review B, 2014, 90, .	1.1	16
143	Ferromagnetic resonance measurements of (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2016, 49, 425002.	1.3	16
144	Controlled skyrmion nucleation in extended magnetic layers using a nanocontact geometry. Physical Review B, 2017, 96, .	1.1	16

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145	Paving Spin-Wave Fibers in Magnonic Nanocircuits Using Spin-Orbit Torque. Physical Review Applied, 2017, 7, .	1.5	16
146	Analysis of the linear relationship between asymmetry and magnetic moment at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>M</mml:mi></mml:math> edge of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:mrow></mml:r transition metals. Physical Review Research, 2020, 2, .	1.3	16
147	Fabrication of voltage-gated spin Hall nano-oscillators. Nanoscale, 2022, 14, 1432-1439.	2.8	16
148	Study of Pseudo Spin Valves Based on $L1_{0}$ (111)-Oriented FePt and FePtCu Fixed Layer With Tilted Magnetocrystalline Anisotropy. IEEE Transactions on Magnetics, 2009, 45, 3491-3494.	1.2	15
149	Magnetization reversal signatures in the magnetoresistance of magnetic multilayers. Physical Review B, 2012, 86, .	1.1	15
150	Analytical investigation of modulated spin-torque oscillators in the framework of coupled differential equations with variable coefficients. Physical Review B, 2012, 85, .	1.1	15
151	Microwave Signal Generation in Single-Layer Nano-Contact Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4331-4334.	1.2	15
152	Hysteretic Synchronization in Spin-Torque Nanocontact Oscillators: A Micromagnetic Study. IEEE Nanotechnology Magazine, 2014, 13, 532-536.	1.1	15
153	Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model-Part I: Analytical Model of the MTJ STO. IEEE Transactions on Electron Devices, 2015, 62, 1037-1044.	1.6	15
154	Antidamping spin-orbit torques in epitaxial-Py(100)/Î²-Ta. Applied Physics Letters, 2017, 111, .	1.5	15
155	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 4171-4178.	1.1	15
156	Spatial mapping of torques within a spin Hall nano-oscillator. Physical Review B, 2018, 98, .	1.1	15
157	Pseudo Spin Valves Using a (1Â1Â2)-Textured D0$_{22}$ Mn$_{2.3-2.4}$Ga Fixed Layer. IEEE Magnetics Letters, 2010, 1, 2500104-2500104.	0.6	14
158	Destabilization of serially connected spin-torque oscillators via non-Adlerian dynamics. Journal of Applied Physics, 2011, 110, 103910.	1.1	14
159	Domain structures and magnetization reversal in Co/Pd and CoFeB/Pd multilayers. Journal of Applied Physics, 2015, 117, .	1.1	14
160	Intrinsic Reliability of AlOx-Based Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2006, 42, 2661-2663.	1.2	13
161	Micromagnetic study of switching boundary of a spin torque nanodevice. Applied Physics Letters, 2011, 98, 102501.	1.5	13
162	Controlling Gilbert damping in a YIG film using nonlocal spin currents. Physical Review B, 2016, 94, .	1.1	13

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163	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	1.1	13
164	Exchange Bias in $L1_0$ (111)-Oriented FePt-Based Pseudo Spin Valves. IEEE Transactions on Magnetics, 2009, 45, 3881-3884.	1.2	12
165	Utility of reactively sputtered CuNx films in spintronics devices. Journal of Applied Physics, 2012, 111, 073912.	1.1	12
166	A Nonvolatile Spintronic Memory Element with a Continuum of Resistance States. Advanced Functional Materials, 2013, 23, 1919-1922.	7.8	12
167	An inductorless wideband Balun-LNA for spin torque oscillator-based field sensing. , 2014, , .		12
168	Spin Hall effect-controlled magnetization dynamics in NiMnSb. Journal of Applied Physics, 2015, 117, 17E103.	1.1	12
169	Superharmonic injection locking of nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	12
170	Improving the magnetodynamical properties of NiFe/Pt bilayers through Hf dusting. Applied Physics Letters, 2018, 113, .	1.5	12
171	Quantitative x-ray photoelectron spectroscopy study of Al/AlO[sub x] bilayers. Journal of Applied Physics, 2002, 91, 10163.	1.1	11
172	Thick Double-Biased IrMn/NiFe/IrMn Planar Hall Effect Bridge Sensors. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	11
173	Comprehensive and Macrospin-Based Magnetic Tunnel Junction Spin Torque Oscillator Model- Part II: Verilog-A Model Implementation. IEEE Transactions on Electron Devices, 2015, 62, 1045-1051.	1.6	11
174	Integration of GMR-based spin torque oscillators and CMOS circuitry. Solid-State Electronics, 2015, 111, 91-99.	0.8	11
175	All-optical study of tunable ultrafast spin dynamics in [Co/Pd]/NiFe systems: the role of spin-twist structure on Gilbert damping. RSC Advances, 2016, 6, 80168-80173.	1.7	11
176	Imaging magnetisation dynamics in nano-contact spin-torque vortex oscillators exhibiting gyrotropic mode splitting. Journal Physics D: Applied Physics, 2017, 50, 164003.	1.3	11
177	Time-domain stability of parametric synchronization in a spin-torque nano-oscillator based on a magnetic tunnel junction. Physical Review B, 2017, 96, .	1.1	11
178	Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. Applied Physics Letters, 2019, 115, .	1.5	11
179	Ultrathin Ferrimagnetic GdFeCo Films with Low Damping. Advanced Functional Materials, 2022, 32, .	7.8	11
180	Observation of magnetic droplets in magnetic tunnel junctions. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	11

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181	Dislocation-mediated creep of highly separated vortices ina-axis-orientedHgBa2CaCu2O6+Î´thin films. Physical Review B, 2001, 64, .	1.1	10
182	Temperature and angular dependences of dynamic spin-polarized resonant tunneling in CoFeBâˆ•MgOâˆ•NiFe junctions. Journal of Applied Physics, 2008, 103, 07A904.	1.1	10
183	Measuring acoustic mode resonance alone as a sensitive technique to extract antiferromagnetic coupling strength. Physical Review B, 2015, 92, .	1.1	10
184	Homodyne-detected ferromagnetic resonance of in-plane magnetized nanocontacts: Composite spin-wave resonances and their excitation mechanism. Physical Review B, 2016, 93, .	1.1	10
185	Time resolved imaging of the non-linear bullet mode within an injection-locked nano-contact spin Hall nano-oscillator. Applied Physics Letters, 2018, 113, .	1.5	10
186	[Co/Ni] multilayers with robust post-annealing performance for spintronics device applications. Journal Physics D: Applied Physics, 2018, 51, 465002.	1.3	10
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