

# Johan Åkerman

## List of Publications by Year in descending order

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279  
papers

10,733  
citations

38660

50  
h-index

40881

93  
g-index

283  
all docs

283  
docs citations

283  
times ranked

7163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Memristive control of mutual spin Hall nano-oscillator synchronization for neuromorphic computing. <i>Nature Materials</i> , 2022, 21, 81-87.	13.3	63
2	Impact of Random Grain Structure on Spin-Hall Nano-Oscillator Modal Stability. <i>IEEE Electron Device Letters</i> , 2022, 43, 312-315.	2.2	5
3	Phase-Binarized Spin Hall Nano-Oscillator Arrays: Towards Spin Hall Ising Machines. <i>Physical Review Applied</i> , 2022, 17, .	1.5	33
4	Femtosecond laser comb driven perpendicular standing spin waves. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
5	Fabrication of voltage-gated spin Hall nano-oscillators. <i>Nanoscale</i> , 2022, 14, 1432-1439.	2.8	16
6	Advances in Magnetics Roadmap on Spin-Wave Computing. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-72.	1.2	179
7	Experimental confirmation of the delayed Ni demagnetization in FeNi alloy. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
8	Ultrathin Ferrimagnetic GdFeCo Films with Low Damping. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	11
9	Observation of magnetic droplets in magnetic tunnel junctions. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	11
10	Freezing and thawing magnetic droplet solitons. <i>Nature Communications</i> , 2022, 13, 2462.	5.8	6
11	Magnetic force microscopy of an operational spin nano-oscillator. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	3
12	Optothermal control of spin Hall nano-oscillators. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
13	Mutual Synchronization of Constriction-Based Spin Hall Nano-Oscillators in Weak In-Plane Magnetic Fields. <i>Physical Review Applied</i> , 2022, 18, .	1.5	3
14	Femtosecond Laser Pulse Driven Caustic Spin Wave Beams. <i>Physical Review Letters</i> , 2021, 126, 037204.	2.9	17
15	Femtosecond laser driven precessing magnetic gratings. <i>Nanoscale</i> , 2021, 13, 3746-3756.	2.8	9
16	Compositional effect on auto-oscillation behavior of Ni <sub>100-x</sub> Fe <sub>x</sub> /Pt spin Hall nano-oscillators. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	9
17	Ultrafast Ising Machines using spin torque nano-oscillators. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	45
18	Impact of intragrain spin wave reflections on nanocontact spin torque oscillators. <i>Physical Review B</i> , 2021, 103, .	1.1	6

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19	Roadmap of Spin-Orbit Torques. IEEE Transactions on Magnetics, 2021, 57, 1-39.	1.2	225
20	Using the photoinduced L3 resonance shift in Fe and Ni as time reference for ultrafast experiments at low flux soft x-ray sources. Structural Dynamics, 2021, 8, 044304.	0.9	1
21	Measuring spin wave resonance in Ni <sub>100</sub> x Fe <sub>x</sub> films: compositional and temperature dependence. Journal Physics D: Applied Physics, 2021, 54, 445002.	1.3	3
22	Microwave Oscillators and Detectors Based on Magnetic Tunnel Junctions. , 2021, , 3-44.		4
23	Brillouin light scattering investigations of films and magnetic tunnel junctions with perpendicular magnetic anisotropy at the CoFe/MgO interface. Journal Physics D: Applied Physics, 2021, 54, 135005.	1.3	2
24	Enhanced Modulation Bandwidth of a Magnetic Tunnel Junction-Based Spin Torque Nano-Oscillator Under Strong Current Modulation. IEEE Electron Device Letters, 2021, 42, 1886-1889.	2.2	2
25	Two-dimensional mutually synchronized spin Hall nano-oscillator arrays for neuromorphic computing. Nature Nanotechnology, 2020, 15, 47-52.	15.6	181
26	A Magnetic Field-to-Digital Converter Employing a Spin-Torque Nano-Oscillator. IEEE Nanotechnology Magazine, 2020, 19, 565-570.	1.1	5
27	Giant voltage-controlled modulation of spin Hall nano-oscillator damping. Nature Communications, 2020, 11, 4006.	5.8	48
28	Opportunities and challenges for spintronics in the microelectronics industry. Nature Electronics, 2020, 3, 446-459.	13.1	471
29	Tuning Magnetic Droplets in Nanocontact Spin-Torque Oscillators Using Electric Fields. Physical Review Applied, 2020, 14, .	1.5	6
30	Sustained coherent spin wave emission using frequency combs. Physical Review B, 2020, 101, .	1.1	10
31	Width dependent auto-oscillating properties of constriction based spin Hall nano-oscillators. Applied Physics Letters, 2020, 116, .	1.5	21
32	Influence of interfacial magnetic ordering and field-cooling effect on perpendicular exchange bias and magnetoresistance in nanoporous IrMn/[Co/Pd] films. Journal of Applied Physics, 2020, 127, .	1.1	6
33	Enhanced skyrmion motion via strip domain wall. Physical Review B, 2020, 101, .	1.1	23
34	Correlation of magnetic and magnetoresistive properties of nanoporous Co/Pd thin multilayers fabricated on anodized TiO <sub>2</sub> templates. Scientific Reports, 2020, 10, 10838.	1.6	4
35	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	1.1	13
36	Reduced spin torque nano-oscillator linewidth using He + irradiation. Applied Physics Letters, 2020, 116, 072403.	1.5	19

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37	Complex magnetic ordering in nanoporous [Co/Pd] <sub>5</sub> -IrMn multilayers with perpendicular magnetic anisotropy and its impact on magnetization reversal and magnetoresistance. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3661-3674.	1.3	8
38	Chiral excitations of magnetic droplet solitons driven by their own inertia. <i>Physical Review B</i> , 2020, 101, .	1.1	9
39	Analysis of the linear relationship between asymmetry and magnetic moment at the edge of transition metals. <i>Physical Review Research</i> , 2020, 2, .	1.3	16
40	Frequency comb enhanced Brillouin microscopy. <i>Optics Express</i> , 2020, 28, 29540.	1.7	6
41	Compact Macrospin-Based Model of Three-Terminal Spin-Hall Nano Oscillators. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-8.	1.2	5
42	Tuning exchange-dominated spin-waves using lateral current spread in nanocontact spin-torque nano-oscillators. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 492, 165503.	1.0	3
43	Magnetodynamics in orthogonal nanocontact spin-torque nano-oscillators based on magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
44	Time-resolved imaging of magnetization dynamics in double nanocontact spin torque vortex oscillator devices. <i>Physical Review B</i> , 2019, 100, .	1.1	3
45	Subterahertz ferrimagnetic spin-transfer torque oscillator. <i>Physical Review B</i> , 2019, 100, .	1.1	34
46	Spin-orbit torque-driven propagating spin waves. <i>Science Advances</i> , 2019, 5, eaax8467.	4.7	77
47	A single layer spin-orbit torque nano-oscillator. <i>Nature Communications</i> , 2019, 10, 2362.	5.8	66
48	Magnetization reversal of antiferromagnetically coupled (Co/Ni) and (Co/Pt) multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 479, 27-31.	1.0	10
49	Enhanced Perpendicular Exchange Bias in Co/Pd Antidot Arrays. <i>Journal of Electronic Materials</i> , 2019, 48, 1492-1497.	1.0	7
50	Origin of Magnetization Auto-Oscillations in Constriction-Based Spin Hall Nano-Oscillators. <i>Physical Review Applied</i> , 2018, 9, .	1.5	52
51	Influence of MgO barrier quality on spin-transfer torque in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
52	Magnetic droplet soliton nucleation in oblique fields. <i>Physical Review B</i> , 2018, 97, .	1.1	17
53	Effect of flattened surface morphology of anodized aluminum oxide templates on the magnetic properties of nanoporous Co/Pt and Co/Pd thin multilayered films. <i>Applied Surface Science</i> , 2018, 427, 649-655.	3.1	25
54	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4171-4178.	1.1	15

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55	Spatial mapping of torques within a spin Hall nano-oscillator. Physical Review B, 2018, 98, .	1.1	15
56	Using Magnetic Droplet Nucleation to Determine the Spin Torque Efficiency and Asymmetry in $\langle \text{Co} \rangle_x \langle \text{Ni} \rangle_y$ Thin Films. Physical Review Applied, 2018, 10, .	1.5	7
57	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
58	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
59	Ultra-fast logic devices using artificial neuron-based on antiferromagnetic pulse generators. Journal of Applied Physics, 2018, 124, .	1.1	36
60	Spin Transfer Torque Driven Magnetodynamical Solitons. Springer Series in Solid-state Sciences, 2018, , 335-356.	0.3	1
61	Ultra-fast artificial neuron: generation of picosecond-duration spikes in a current-driven antiferromagnetic auto-oscillator. Scientific Reports, 2018, 8, 15727.	1.6	61
62	Spin transfer torque driven higher-order propagating spin waves in nano-contact magnetic tunnel junctions. Nature Communications, 2018, 9, 4374.	5.8	43
63	[Co/Ni] multilayers with robust post-annealing performance for spintronics device applications. Journal Physics D: Applied Physics, 2018, 51, 465002.	1.3	10
64	Improving the magnetodynamical properties of NiFe/Pt bilayers through Hf dusting. Applied Physics Letters, 2018, 113, .	1.5	12
65	Direct Observation of Zhang-Li Torque Expansion of Magnetic Droplet Solitons. Physical Review Letters, 2018, 120, 217204.	2.9	27
66	CMOS compatible W/CoFeB/MgO spin Hall nano-oscillators with wide frequency tunability. Applied Physics Letters, 2018, 112, .	1.5	47
67	Impact of the Oersted Field on Droplet Nucleation Boundaries. IEEE Magnetics Letters, 2018, 9, 1-4.	0.6	8
68	Investigation of magnetic droplet solitons using x-ray holography with extended references. Scientific Reports, 2018, 8, 11533.	1.6	3
69	Tuning the magnetodynamic properties of all-perpendicular spin valves using He+ irradiation. AIP Advances, 2018, 8, 065309.	0.6	3
70	Microwave probe stations with three-dimensional control of the magnetic field to study high-frequency dynamics in nanoscale devices. Review of Scientific Instruments, 2018, 89, 064701.	0.6	3
71	Ferromagnetic and Spin-Wave Resonance on Heavy-Metal-Doped Permalloy Films: Temperature Effects. IEEE Magnetics Letters, 2017, 8, 1-4.	0.6	18
72	Order of magnitude improvement of nano-contact spin torque nano-oscillator performance. Nanoscale, 2017, 9, 1896-1900.	2.8	17

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73	A 20 nm spin Hall nano-oscillator. <i>Nanoscale</i> , 2017, 9, 1285-1291.	2.8	55
74	Parametric autoexcitation of magnetic droplet soliton perimeter modes. <i>Physical Review B</i> , 2017, 95, .	1.1	32
75	Current Modulation of Nanoconstriction Spin-Hall Nano-Oscillators. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-4.	0.6	19
76	Phase-locking of multiple magnetic droplets by a microwave magnetic field. <i>AIP Advances</i> , 2017, 7, .	0.6	8
77	Spin transfer torque ferromagnetic resonance induced spin pumping in the Fe/Pd bilayer system. <i>Physical Review B</i> , 2017, 95, .	1.1	36
78	Ni thickness influence on magnetic properties (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 441, 585-589.	1.0	3
79	Interfacial Dzyaloshinskii-Moriya Interaction in $\text{Pt}/\text{CoFeB}$ Films: Effect of the Heavy-Metal Thickness. <i>Physical Review Letters</i> , 2017, 118, 147201.	2.9	165
80	Imaging magnetisation dynamics in nano-contact spin-torque vortex oscillators exhibiting gyrotropic mode splitting. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 164003.	1.3	11
81	Controlled skyrmion nucleation in extended magnetic layers using a nanocontact geometry. <i>Physical Review B</i> , 2017, 96, .	1.1	16
82	Anisotropy constant and exchange coupling strength of perpendicularly magnetized CoFeB/Pd multilayers and exchange springs. <i>Physical Review B</i> , 2017, 95, .	1.1	4
83	Time-domain stability of parametric synchronization in a spin-torque nano-oscillator based on a magnetic tunnel junction. <i>Physical Review B</i> , 2017, 96, .	1.1	11
84	Antidamping spin-orbit torques in epitaxial-Py(100)/ $\text{Ta}$ . <i>Applied Physics Letters</i> , 2017, 111, .	1.5	15
85	A high-speed single sideband generator using a magnetic tunnel junction spin torque nano-oscillator. <i>Scientific Reports</i> , 2017, 7, 13422.	1.6	17
86	Paving Spin-Wave Fibers in Magnonic Nanocircuits Using Spin-Orbit Torque. <i>Physical Review Applied</i> , 2017, 7, .	1.5	16
87	Long-range mutual synchronization of spin Hall nano-oscillators. <i>Nature Physics</i> , 2017, 13, 292-299.	6.5	221
88	Order of magnitude improvement of nano-contact spin torque nano-oscillator performance. , 2017, , .		0
89	Magnetic droplet nucleation boundary in orthogonal spin-torque nano-oscillators. <i>Nature Communications</i> , 2016, 7, 11209.	5.8	46
90	Enhancement of spin-torque diode sensitivity in a magnetic tunnel junction by parametric synchronization. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	22

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91	Low operational current spin Hall nano-oscillators based on NiFe/W bilayers. Applied Physics Letters, 2016, 109, .	1.5	54
92	Low-current, narrow-linewidth microwave signal generation in NiMnSb based single-layer nanocontact spin-torque oscillators. Applied Physics Letters, 2016, 109, .	1.5	3
93	Superharmonic injection locking of nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	12
94	Free- and reference-layer magnetization modes versus in-plane magnetic field in a magnetic tunnel junction with perpendicular magnetic easy axis. Physical Review B, 2016, 94, .	1.1	4
95	Ferromagnetic resonance measurements of (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2016, 49, 425002.	1.3	16
96	Direct observation of magnetization dynamics generated by nanocontact spin-torque vortex oscillators. Physical Review B, 2016, 94, .	1.1	18
97	Variable variance Preisach model for multilayers with perpendicular magnetic anisotropy. Physical Review B, 2016, 94, .	1.1	3
98	Controlling Gilbert damping in a YIG film using nonlocal spin currents. Physical Review B, 2016, 94, .	1.1	13
99	Magnetostatically driven domain replication in Ni/Co based perpendicular pseudo-spin-valves. Journal Physics D: Applied Physics, 2016, 49, 415004.	1.3	3
100	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
101	Merging droplets in double nanocontact spin torque oscillators. Physical Review B, 2016, 93, .	1.1	24
102	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
103	Spin-Torque and Spin-Hall Nano-Oscillators. Proceedings of the IEEE, 2016, 104, 1919-1945.	16.4	276
104	Holographic Magnetic Imaging of Single-Layer Nanocontact Spin-Transfer Oscillators. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	3
105	Modulation of the Spectral Characteristics of a Nano-Contact Spin-Torque Oscillator via Spin Waves in an Adjacent Yttrium-Iron Garnet Film. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	7
106	Spin-wave-beam driven synchronization of nanocontact spin-torque oscillators. Nature Nanotechnology, 2016, 11, 280-286.	15.6	119
107	Monte Carlo Modeling of Mixed-Anisotropy $\text{[Co/Ni]}_2/\text{NiFe}$ Multilayers. IEEE Magnetics Letters, 2016, 7, 1-5.	0.6	3
108	Ferromagnetic resonance measurements of (Co/Ni/Co/Pt) multilayers with perpendicular magnetic anisotropy. Journal Physics D: Applied Physics, 2016, 49, .	1.3	0

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109	Planar hall effect bridge sensor with NiFeX (X = Cu, Ag and Au) sensing layer. , 2015, , .		0
110	Propagating spin waves excited by spin-transfer torque: A combined electrical and optical study. Physical Review B, 2015, 92, .	1.1	32
111	Tunable damping, saturation magnetization, and exchange stiffness of half-Heusler NiMnSb thin films. Physical Review B, 2015, 92, .	1.1	49
112	Magnetic droplet solitons in orthogonal spin valves. Low Temperature Physics, 2015, 41, 833-837.	0.2	21
113	Spin Hall effect-controlled magnetization dynamics in NiMnSb. Journal of Applied Physics, 2015, 117, 17E103.	1.1	12
114	Mode-coupling mechanisms in nanocontact spin-torque oscillators. Physical Review B, 2015, 91, .	1.1	21
115	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
116	Modulation rate study in spin torque oscillator based wireless communication system. , 2015, , .		0
117	Planar Hall-Effect Bridge Sensor With NiFeX (X &lt;math>\in</math> Cu, Ag and Au) Sensing Layer. Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
118	Measuring acoustic mode resonance alone as a sensitive technique to extract antiferromagnetic coupling strength. Physical Review B, 2015, 92, .	1.1	10
119	Modulation Rate Study in a Spin-Torque Oscillator-Based Wireless Communication System. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	18
120	Tunable permalloy-based films for magnonic devices. Physical Review B, 2015, 92, .	1.1	61
121	Ultrasensitive and label-free molecular-level detection enabled by light phase control in magnetoplasmonic nanoantennas. Nature Communications, 2015, 6, 6150.	5.8	172
122	Magnetic structure and anisotropy of $\text{Ni}_{1-x}\text{Cu}_x\text{Fe}_2\text{O}_4$ . Physical Review B, 2015, 91, .		
123	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
124	Exponentially decaying magnetic coupling in sputtered thin film FeNi/Cu/FeCo trilayers. Applied Physics Letters, 2015, 106, .	1.5	22
125	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	2.0	243
126	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



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127	Active Magnetoplasmonic Ruler. Nano Letters, 2015, 15, 3204-3211.	4.5	48
128	Thickness- and temperature-dependent magnetodynamic properties of yttrium iron garnet thin films. Journal of Applied Physics, 2015, 117, .	1.1	46
129	Integration of GMR-based spin torque oscillators and CMOS circuitry. Solid-State Electronics, 2015, 111, 91-99.	0.8	11
130	Domain structures and magnetization reversal in Co/Pd and CoFeB/Pd multilayers. Journal of Applied Physics, 2015, 117, .	1.1	14
131	Role of boron diffusion in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, .	1.1	40
132	Exchange coupling in hybrid anisotropy magnetic multilayers quantified by vector magnetometry. Journal of Applied Physics, 2015, 117, 17B526.	1.1	6
133	Temperature effect on exchange coupling and magnetization reversal in antiferromagnetically coupled (Co/Pd) multilayers. Journal of Applied Physics, 2015, 118, .	1.1	7
134	Magneto-optical observation of mutual phase-locking in a pair of spin-torque vortex oscillators. , 2015, , .		0
135	Spin pumping and the inverse spin-hall effect via magnetostatic surface spin-wave modes in Yttrium-Iron garnet/platinum bilayers. IEEE Magnetics Letters, 2015, 6, 1-4.	0.6	6
136	Dynamically stabilized magnetic skyrmions. Nature Communications, 2015, 6, 8193.	5.8	173
137	Effect of Excitation Fatigue on the Synchronization of Multiple Nanocontact Spin-Torque Oscillators. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	5
138	Linear Phase Tuning of Spin Torque Oscillators Using In-Plane Microwave Fields. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	1
139	A highly tunable microwave oscillator based on MTJ STO technology. Microwave and Optical Technology Letters, 2014, 56, 2092-2095.	0.9	7
140	Mode-hopping mechanism generating colored noise in a magnetic tunnel junction based spin torque oscillator. Applied Physics Letters, 2014, 105, 132404.	1.5	20
141	Modulation-mediated unlocking of a parametrically phase-locked spin torque oscillator. Applied Physics Letters, 2014, 105, 252404.	1.5	7
142	Spin reorientation via antiferromagnetic coupling. Journal of Applied Physics, 2014, 115, 17C103.	1.1	4
143	Accessing different spin-disordered states using first-order reversal curves. Physical Review B, 2014, 90, .	1.1	16
144	Magnetoplasmonic Design Rules for Active Magneto-Optics. Nano Letters, 2014, 14, 7207-7214.	4.5	94

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145	Effects of a non-absorbing substrate on the magneto-optical Kerr response of plasmonic ferromagnetic nanodisks. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1067-1075.	0.8	23
146	Thick Double-Biased IrMn/NiFe/IrMn Planar Hall Effect Bridge Sensors. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.	1.2	11
147	CoFeB-Based Spin Hall Nano-Oscillators. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4.	0.6	71
148	An inductorless wideband Balun-LNA for spin torque oscillator-based field sensing. , 2014, , .		12
149	XRD cation distribution and magnetic properties of mesoporous Zn-substituted CuFe <sub>2</sub> O <sub>4</sub> . <i>Ceramics International</i> , 2014, 40, 3619-3625.	2.3	102
150	Effect of nanoconfinement on the formation, structural transition and magnetic behavior of mesoporous copper ferrite. <i>Journal of Alloys and Compounds</i> , 2014, 598, 191-197.	2.8	18
151	Parametric excitation in a magnetic tunnel junction-based spin torque oscillator. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	18
152	Spin transfer torque generated magnetic droplet solitons (invited). <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	47
153	Magnetic properties of crystalline mesoporous Zn-substituted copper ferrite synthesized under nanoconfinement in silica matrix. <i>Microporous and Mesoporous Materials</i> , 2014, 190, 346-355.	2.2	27
154	Magnetic droplet solitons in orthogonal nano-contact spin torque oscillators. <i>Physica B: Condensed Matter</i> , 2014, 435, 84-87.	1.3	35
155	Confined Dissipative Droplet Solitons in Spin-Valve Nanowires with Perpendicular Magnetic Anisotropy. <i>Physical Review Letters</i> , 2014, 112, 047201.	2.9	53
156	Generation linewidth of mode-hopping spin torque oscillators. <i>Physical Review B</i> , 2014, 89, .	1.1	28
157	[Co/Pd]-CoFeB exchange spring magnets with tunable gap of spin wave excitations. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495004.	1.3	17
158	Depth-Dependent Magnetization Profiles of Hybrid Exchange Springs. <i>Physical Review Applied</i> , 2014, 2, .	1.5	22
159	Oxidation states and quality of upper interfaces in magnetic tunnel junctions: oxygen effect on crystallization of interfaces. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 026004.	0.7	4
160	The 2014 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 333001.	1.3	329
161	Magnetic coupling in asymmetric FeCoV/Ru/FeNi trilayers. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	9
162	Hysteretic Synchronization in Spin-Torque Nanocontact Oscillators: A Micromagnetic Study. <i>IEEE Nanotechnology Magazine</i> , 2014, 13, 532-536.	1.1	15

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163	Dependence of the colored frequency noise in spin torque oscillators on current and magnetic field. Applied Physics Letters, 2014, 104, 092405.	1.5	28
164	Investigation of the Tunability of the Spin Configuration Inside Exchange Coupled Springs of Hard/Soft Magnets. IEEE Transactions on Magnetics, 2014, 50, 1-6.	1.2	4
165	Channelling spin waves. Nature Nanotechnology, 2014, 9, 503-504.	15.6	19
166	Reversal mode instability and magnetoresistance in perpendicular (Co/Pd)/Cu/(Co/Ni) pseudo-spin-valves. Applied Physics Letters, 2013, 103, .	1.5	21
167	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
168	Microwave Signal Generation in Single-Layer Nano-Contact Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4331-4334.	1.2	15
169	Decoherence, Mode Hopping, and Mode Coupling in Spin Torque Oscillators. IEEE Transactions on Magnetics, 2013, 49, 4398-4404.	1.2	17
170	Mutually synchronized bottom-up multi-nanocontact spin-torque oscillators. Nature Communications, 2013, 4, 2731.	5.8	98
171	Triple mode-jumping in a spin torque oscillator. , 2013, , .		3
172	Nano-Contact Spin-Torque Oscillators as Magnonic Building Blocks. Topics in Applied Physics, 2013, , 177-187.	0.4	19
173	A Nonvolatile Spintronic Memory Element with a Continuum of Resistance States. Advanced Functional Materials, 2013, 23, 1919-1922.	7.8	12
174	Spin Torque-Generated Magnetic Droplet Solitons. Science, 2013, 339, 1295-1298.	6.0	237
175	Spin wave excitations in exchange-coupled [Co/Pd]-NiFe films with tunable tilting of the magnetization. Physical Review B, 2013, 87, .	1.1	25
176	Resonant excitation of injection-locked spin-torque oscillators. Physical Review B, 2013, 87, .	1.1	5
177	Oxidation states and the quality of lower interfaces in magnetic tunnel junctions: oxygen effect on crystallization of interfaces. Journal of Physics Condensed Matter, 2013, 25, 135302.	0.7	3
178	Polarizability and magnetoplasmonic properties of magnetic general nanoellipsoids. Optics Express, 2013, 21, 9875.	1.7	34
179	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
180	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

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182	Magnetization reversal signatures in the magnetoresistance of magnetic multilayers. Physical Review B, 2012, 86, .	1.1	15
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