

# Kay Yakushiji

## List of Publications by Year in descending order

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182  
papers

8,762  
citations

50170

46  
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48187

88  
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184  
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184  
docs citations

184  
times ranked

5624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuromorphic computing with nanoscale spintronic oscillators. <i>Nature</i> , 2017, 547, 428-431.	13.7	893
2	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. <i>Nature Physics</i> , 2008, 4, 37-41.	6.5	485
3	Vowel recognition with four coupled spin-torque nano-oscillators. <i>Nature</i> , 2018, 563, 230-234.	13.7	356
4	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. <i>Nature Communications</i> , 2010, 1, 8.	5.8	336
5	Enhanced Magnetoresistance in Insulating Granular Systems: Evidence for Higher-Order Tunneling. <i>Physical Review Letters</i> , 1998, 81, 2799-2802.	2.9	323
6	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	255
7	Highly sensitive nanoscale spin-torque diode. <i>Nature Materials</i> , 2014, 13, 50-56.	13.3	228
8	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. <i>Nature Physics</i> , 2012, 8, 491-496.	6.5	223
9	Electrical manipulation of a topological antiferromagnetic state. <i>Nature</i> , 2020, 580, 608-613.	13.7	212
10	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. <i>Scientific Reports</i> , 2016, 6, 31510.	1.6	186
11	Spin dice: A scalable truly random number generator based on spintronics. <i>Applied Physics Express</i> , 2014, 7, 083001.	1.1	174
12	Lower-current and fast switching of a perpendicular TMR for high speed and high density spin-transfer-torque MRAM. , 2008, , .		172
13	High efficient spin transfer torque writing on perpendicular magnetic tunnel junctions for high density MRAMs. <i>Current Applied Physics</i> , 2010, 10, e87-e89.	1.1	168
14	Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	164
15	Enhanced spin accumulation and novel magnetotransport in nanoparticles. <i>Nature Materials</i> , 2004, 4, 57-61.	13.3	160
16	Spin-Torque Oscillator Based on Magnetic Tunnel Junction with a Perpendicularly Magnetized Free Layer and In-Plane Magnetized Polarizer. <i>Applied Physics Express</i> , 2013, 6, 103003.	1.1	144
17	Current-perpendicular-to-plane magnetoresistance in epitaxial Co <sub>2</sub> MnSi/Cr/Co <sub>2</sub> MnSi trilayers. <i>Applied Physics Letters</i> , 2006, 88, 222504.	1.5	133
18	Spin-polarized current-induced magnetization reversal in perpendicularly magnetized L1 <sub>0</sub> -FePt layers. <i>Applied Physics Letters</i> , 2006, 88, 172504.	1.5	129

#	ARTICLE	IF	CITATIONS
19	Spin-transfer torque induced by the spin anomalous Hall effect. <i>Nature Electronics</i> , 2018, 1, 120-123.	13.1	108
20	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. <i>Physical Review Applied</i> , 2017, 8, .	1.5	106
21	Physical reservoir computing based on spin torque oscillator with forced synchronization. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	106
22	Composition dependence of particle size distribution and giant magnetoresistance in Co $\alpha$ Al $\alpha$ O granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 2000, 212, 75-81.	1.0	100
23	Enhanced tunnel magnetoresistance in granular nanobridges. <i>Applied Physics Letters</i> , 2001, 78, 515-517.	1.5	89
24	Evaluation of write error rate for voltage-driven dynamic magnetization switching in magnetic tunnel junctions with perpendicular magnetization. <i>Applied Physics Express</i> , 2016, 9, 013001.	1.1	87
25	Enhancement of perpendicular magnetic anisotropy in FeB free layers using a thin MgO cap layer. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	85
26	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. <i>Nature Communications</i> , 2017, 8, 15825.	5.8	85
27	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2015, 91, .	1.1	83
28	High Magnetoresistance Ratio and Low Resistance $\alpha$ Area Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. <i>Applied Physics Express</i> , 2010, 3, 053003.	1.1	80
29	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. <i>Nature Nanotechnology</i> , 2016, 11, 360-364.	15.6	75
30	Phase locking of vortex based spin transfer oscillators to a microwave current. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	74
31	Response to noise of a vortex based spin transfer nano-oscillator. <i>Physical Review B</i> , 2014, 89, .	1.1	74
32	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. <i>Applied Physics Express</i> , 2015, 8, 053003.	1.1	73
33	Tunnel magnetoresistance in Co nanoparticle/Co $\alpha$ C60 compound hybrid system. <i>Applied Physics Letters</i> , 2006, 89, 113118.	1.5	68
34	Ultralow-Voltage Spin-Transfer Switching in Perpendicularly Magnetized Magnetic Tunnel Junctions with Synthetic Antiferromagnetic Reference Layer. <i>Applied Physics Express</i> , 2013, 6, 113006.	1.1	67
35	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	65
36	Tunnel-MR and spin electronics in metal $\alpha$ nonmetal granular systems. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 179-184.	1.0	64

#	ARTICLE	IF	CITATIONS
37	Tunnel Magnetoresistance above 170% and Resistanceâ€“Area Product of $1 \hat{\text{C}} (\hat{\text{A}}\mu\text{m})^2$ Attained by <i>In situ</i> Annealing of Ultra-Thin MgO Tunnel Barrier. Applied Physics Express, 2011, 4, 033002.	1.1	64
38	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, .	1.5	60
39	High emission power and Q factor in spin torque vortex oscillator consisting of FeB free layer. Applied Physics Express, 2014, 7, 063009.	1.1	58
40	Magnetization reversal by spin-transfer torque in $90^\circ$ configuration with a perpendicular spin polarizer. Applied Physics Letters, 2006, 89, 172504.	1.5	54
41	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. Applied Physics Express, 2015, 8, 083003.	1.1	53
42	Spin-dependent tunneling and Coulomb blockade in ferromagnetic nanoparticles. Physics Reports, 2007, 451, 1-35.	10.3	52
43	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. Applied Physics Express, 2013, 6, 073005.	1.1	52
44	Microwave emission power exceeding $10 \hat{\%} \hat{1} / 4 \hat{W}$ in spin torque vortex oscillator. Applied Physics Letters, 2016, 109, .	1.5	51
45	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. Scientific Reports, 2016, 5, 18134.	1.6	51
46	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201.	2.9	50
47	Effect of MgO Cap Layer on Gilbert Damping of FeB Electrode Layer in MgO-Based Magnetic Tunnel Junctions. Applied Physics Express, 2013, 6, 073002.	1.1	49
48	Scaling up electrically synchronized spin torque oscillator networks. Scientific Reports, 2018, 8, 13475.	1.6	49
49	Role of non-linear data processing on speech recognition task in the framework of reservoir computing. Scientific Reports, 2020, 10, 328.	1.6	48
50	Tunnel magnetoresistance oscillations in current perpendicular to plane geometry of CoAlO granular thin films. Journal of Applied Physics, 2002, 91, 7038.	1.1	46
51	Temporal Pattern Recognition with Delayed-Feedback Spin-Torque Nano-Oscillators. Physical Review Applied, 2019, 12, .	1.5	45
52	Thermal stability and spin-transfer switchings in MgO-based magnetic tunnel junctions with ferromagnetically and antiferromagnetically coupled synthetic free layers. Applied Physics Letters, 2009, 95, .	1.5	42
53	Future prospects of MRAM technologies. , 2013, , .		42
54	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	1.6	40

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55	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	1.6	39
56	Spin-dependent single-electron-tunneling effects in epitaxial Fe nanoparticles. Applied Physics Letters, 2004, 84, 3106-3108.	1.5	38
57	Oscillatory interlayer exchange coupling in epitaxial Co <sub>2</sub> MnSi $\hat{\sim}$ Cr $\hat{\sim}$ Co <sub>2</sub> MnSi trilayers. Applied Physics Letters, 2007, 90, 142510.	1.5	36
58	Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001.	1.3	36
59	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	1.5	35
60	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307.	0.8	35
61	Dot size dependence of magnetic properties in microfabricated L10-FePt (001) and L10-FePt (110) dot arrays. Journal of Applied Physics, 2006, 100, 043915.	1.1	33
62	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. Physical Review B, 2009, 80, .	1.1	32
63	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by a Controlled Voltage Pulse. Physical Review Applied, 2019, 11, .	1.5	32
64	Anomalous behavior of temperature and bias-voltage dependence of tunnel-type giant magnetoresistance in insulating granular systems. Journal of Applied Physics, 1998, 83, 6524-6526.	1.1	31
65	Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. Physical Review B, 2009, 79, .	1.1	31
66	Coherent microwave generation by spintronic feedback oscillator. Scientific Reports, 2016, 6, 30747.	1.6	31
67	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 0, 1, 061303.	1.1	29
68	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. Physical Review Applied, 2018, 10, .	1.5	29
69	Damping parameter and interfacial perpendicular magnetic anisotropy of FeB nanopillar sandwiched between MgO barrier and cap layers in magnetic tunnel junctions. Applied Physics Express, 2014, 7, 033004.	1.1	28
70	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	1.5	28
71	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, .	1.5	28
72	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. Nature Nanotechnology, 2019, 14, 40-43.	15.6	26

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73	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002.	1.1	25
74	Temperature dependence of spin-orbit torques in W/CoFeB bilayers. Applied Physics Letters, 2016, 109, .	1.5	25
75	Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. Applied Physics Express, 0, 1, 041302.	1.1	23
76	Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillation in magnetic tunnel junction. Applied Physics Letters, 2012, 100, .	1.5	23
77	Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. Physical Review B, 2013, 88, .	1.1	23
78	Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. Applied Physics Express, 2018, 11, 053001.	1.1	23
79	Size distribution of precipitated Ni clusters on the surface of an alkaline-treated LaNi <sub>5</sub> -based alloy. Acta Materialia, 2007, 55, 481-485.	3.8	22
80	Giant Peltier Effect in a Submicron-Sized Cu/Ni/Au Junction with Nanometer-Scale Phase Separation. Applied Physics Express, 2010, 3, 065204.	1.1	22
81	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003.	1.1	22
82	Improvement of hard magnetic properties in microfabricated L1 <sub>0</sub> -FePt dot arrays upon post-annealing. IEEE Transactions on Magnetics, 2005, 41, 3604-3606.	1.2	21
83	MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. Journal of the Korean Physical Society, 2013, 62, 1461-1464.	0.3	21
84	Giant charge-to-spin conversion in ferromagnet via spin-orbit coupling. Nature Communications, 2021, 12, 6254.	5.8	20
85	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. IEEE Magnetics Letters, 2014, 5, 1-4.	0.6	19
86	Bias field angle dependence of the self-oscillation of spin torque oscillators having a perpendicularly magnetized free layer and in-plane magnetized reference layer. Applied Physics Express, 2014, 7, 063005.	1.1	19
87	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/MgO junctions with atomically thin Ta adhesion layers. Acta Materialia, 2021, 216, 117097.	3.8	19
88	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	1.5	18
89	Binding events through the mutual synchronization of spintronic nano-neurons. Nature Communications, 2022, 13, 883.	5.8	18
90	Reduction in switching current using a low-saturation magnetization Co <sub>2</sub> Fe(Cr, V)B free layer in MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, 07D117.	1.1	17

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91	Dzyaloshinskiiâ€™Moriya interaction in noncentrosymmetric superlattices. Npj Computational Materials, 2021, 7, .	3.5	17
92	Current-induced tunnel magnetoresistance due to spin accumulation in Au nanoparticles. Applied Physics Letters, 2008, 92, 152509.	1.5	16
93	Observations of thermally excited ferromagnetic resonance on spin torque oscillators having a perpendicularly magnetized free layer. Journal of Applied Physics, 2014, 115, 17C740.	1.1	16
94	Neuromorphic computing through time-multiplexing with a spin-torque nano-oscillator. , 2017, IEDM 2017, .		16
95	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. Physical Review Applied, 2017, 8, .	1.5	16
96	Enhanced perpendicular magnetocrystalline anisotropy energy in an artificial magnetic material with bulk spin-momentum coupling. Physical Review B, 2019, 99, .	1.1	16
97	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. Physical Review B, 2020, 101, .	1.1	16
98	Magnetization switching in nanopillars with FePt alloys by spin-polarized current. Journal of Applied Physics, 2006, 99, 08G521.	1.1	15
99	Spin accumulation in metallic nanoparticles. Journal of Physics Condensed Matter, 2007, 19, 165214.	0.7	15
100	Enhancement of Thermal Stability Using Ferromagnetically Coupled Synthetic Free Layers in MgO-Based Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2010, 46, 2232-2235.	1.2	15
101	Surface smoothing process for high-performance MgO-based magnetic tunnel junctions. Applied Physics Express, 2019, 12, 023002.	1.1	15
102	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. Applied Physics Letters, 2013, 103, .	1.5	14
103	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. Nano Letters, 2020, 20, 6012-6017.	4.5	14
104	Evaluation of barrier uniformity in magnetic tunnel junctions prepared using natural oxidation of thin Mg layers. Journal of Applied Physics, 2010, 108, 123915.	1.1	13
105	Magnetic field angle dependence of out-of-plane precession in spin torque oscillators having an in-plane magnetized free layer and a perpendicularly magnetized reference layer. Applied Physics Express, 2016, 9, 053006.	1.1	13
106	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co - Ni - B Alloys. Physical Review Applied, 2020, 14, .	1.5	13
107	Bias Voltage Dependence of GMR in Insulating Granular Thin Films. Journal of the Magnetics Society of Japan, 1998, 22, 577-580.	0.4	13
108	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	1.5	12

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109	Fully epitaxial magnetic tunnel junction on a silicon wafer. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	12
110	Study on spin dependent tunneling and Coulomb blockade in granular systems with restricted tunneling paths. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 84, 120-125.	1.7	11
111	Numerical simulation of magnetization process in epitaxial $\text{Co}_2\text{MnSi}/\text{Cr}/\text{Co}_2\text{MnSi}$ trilayers with oscillatory interlayer coupling. <i>Journal of Applied Physics</i> , 2007, 101, 09J510.	1.1	11
112	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2011, 99, 112504.	1.5	11
113	Self-Injection Locking of a Spin Torque Nano-Oscillator to Magnetic Field Feedback. <i>Physical Review Applied</i> , 2018, 10, .	1.5	11
114	Mutual Synchronization of Spin-Torque Nano-Oscillators Via Oersted Magnetic Fields Created by Waveguides. <i>Physical Review Applied</i> , 2019, 11, .	1.5	11
115	Fully epitaxial giant magnetoresistive devices with half-metallic Heusler alloy fabricated on poly-crystalline electrode using three-dimensional integration technology. <i>Acta Materialia</i> , 2020, 200, 1038-1045.	3.8	11
116	Preparation and magnetotransport properties of MgO-barrier-based magnetic double tunnel junctions including nonmagnetic nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1242-1246.	1.3	10
117	Magnetic and Magnetotransport Properties in Nanogranular $\text{Co}/\text{C}_{60}/\text{Co}$ Film with High Magnetoresistance. <i>Materials Transactions</i> , 2007, 48, 754-758.	0.4	10
118	Epitaxial growth of $\text{L1}_0\text{-FePt}/\text{MgO}/\text{L1}_0\text{-FePt}$ (001) trilayer structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1905-1907.	1.0	10
119	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. <i>Applied Physics Express</i> , 2016, 9, 053005.	1.1	10
120	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. <i>Applied Physics Express</i> , 2017, 10, 063002.	1.1	10
121	Evaluation of higher order magnetic anisotropy in a perpendicularly magnetized epitaxial ultrathin Fe layer and its applied voltage dependence. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 090905.	0.8	10
122	Spin-orbit torque switching of the antiferromagnetic state in polycrystalline $\text{Mn}_3\text{Sn}/\text{Cu}/\text{heavy metal}$ heterostructures. <i>AIP Advances</i> , 2021, 11, .	0.6	10
123	Enhancing the interfacial perpendicular magnetic anisotropy and tunnel magnetoresistance by inserting an ultrathin LIF layer at an Fe/MgO interface. <i>NPG Asia Materials</i> , 2022, 14, .	3.8	10
124	Tunnel magnetoresistance oscillations associated with Coulomb staircases in insulating granular systems. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 2422-2426.	1.3	9
125	Dependence of switching current distribution on current pulse width of current-induced magnetization switching in MgO-based magnetic tunnel junction. <i>Journal of Applied Physics</i> , 2008, 103, 07A707.	1.1	9
126	Spintronic nano-oscillators: Towards nanoscale and tunable frequency devices. , 2014, , .		9



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127	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. <i>Physical Review B</i> , 2016, 94, .	1.1	9
128	Influence of helium on deuterium retention in reduced activation ferritic martensitic steel (F82H) under simultaneous deuterium and helium irradiation. <i>Physica Scripta</i> , 2016, T167, 014067.	1.2	9
129	Effect of Electric Field on the Exchange-Stiffness Constant in a $\text{Co}_{12}\text{Fe}_{16}\text{B}$ Disk-Shaped Nanomagnet 65 nm in Diameter. <i>Physical Review Applied</i> , 2018, 10, .	1.5	9
130	Low offset frequency flicker noise in spin-torque vortex oscillators. <i>Physical Review B</i> , 2019, 99, .	1.1	9
131	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. <i>APL Materials</i> , 2021, 9, .	2.2	9
132	Magnetization process of lotus-type porous metals. <i>Journal of Applied Physics</i> , 2008, 103, 093539.	1.1	8
133	Fabrication of Mg-X-O (X = Fe, Co, Ni, Cr, Mn, Ti, V, and Zn) barriers for magnetic tunnel junctions. <i>AIP Advances</i> , 2018, 8, .	0.6	8
134	Fabrication of polycrystalline Weyl antiferromagnetic $\text{MnO}_3$ thin films on various seed layers. <i>Physical Review Materials</i> , 2021, 5, .	0.9	8
135	Composition Dependence of Perpendicular Magnetic Anisotropy in $\text{Ta/Co}_x\text{Fe}_{80-x}\text{B}_{20}/\text{MgO}/\text{Ta}$ ( $x=0, 10, 60$ ) Multilayers. <i>Journal of Magnetism</i> , 2013, 18, 5-8.	0.2	8
136	Ferrimagnetic compensation and its thickness dependence in TbFeCo alloy thin films. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
137	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , 2009, 2, 123003.	1.1	7
138	Spin-torque diode spectrum of ferromagnetically coupled (FeB/CoFe)/Ru/(CoFe/FeB) synthetic free layer. <i>Journal of Applied Physics</i> , 2012, 111, 07C917.	1.1	6
139	Discontinuous frequency drop in spin torque oscillator with a perpendicularly magnetized FeB free layer. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 060307.	0.8	6
140	Increased magnetic damping of a single domain wall and adjacent magnetic domains detected by spin torque diode in a nanostripe. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	6
141	Temperature dependence of higher-order magnetic anisotropy constants and voltage-controlled magnetic anisotropy effect in a Cr/Fe/MgO junction. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 010901.	0.8	6
142	Spin-torque dynamics for noise reduction in vortex-based sensors. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	6
143	Twist in the bias dependence of spin torques in magnetic tunnel junctions. <i>Physical Review B</i> , 2016, 93, .	1.1	5
144	Erosion and morphology changes of F82H steel under simultaneous hydrogen and helium irradiation. <i>Fusion Engineering and Design</i> , 2017, 124, 356-359.	1.0	5

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145	Low Gilbert damping in epitaxial thin films of the nodal-line semimetal $\text{D}_{0.5}\text{Fe}_3\text{Ga}$ . Physical Review B, 2021, 103, .	1.1	5
146	Control of the stochastic response of magnetization dynamics in spin-torque oscillator through radio-frequency magnetic fields. Scientific Reports, 2021, 11, 16285.	1.6	5
147	Spin-RAM for Normally-Off Computer. , 2011, , .		4
148	Spin dice (physical random number generator using spin torque switching) and its thermal response. , 2015, , .		4
149	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. Journal of Applied Physics, 2017, 122, .	1.1	4
150	Microwave magnetic field modulation of spin torque oscillator based on perpendicular magnetic tunnel junctions. Scientific Reports, 2019, 9, 19091.	1.6	4
151	Influence of flicker noise and nonlinearity on the frequency spectrum of spin torque nano-oscillators. Scientific Reports, 2020, 10, 13116.	1.6	4
152	Reservoir Computing Leveraging the Transient Non-linear Dynamics of Spin-Torque Nano-Oscillators. Natural Computing Series, 2021, , 307-329.	2.2	4
153	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. Applied Physics Express, 2010, 3, 063001.	1.1	4
154	Chaos in spin-torque oscillator with feedback circuit. Physical Review Research, 2021, 3, .	1.3	4
155	Coulomb staircase and tunnel magnetoresistance in nanowire-shaped granular films. Journal of Magnetism and Magnetic Materials, 2006, 303, e355-e358.	1.0	3
156	Detection of an Infrared Magnetorefractive Effect From a Layered Fe/MgO/Fe Magnetic Tunnel Junction. IEEE Transactions on Magnetics, 2008, 44, 2566-2568.	1.2	3
157	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. IEEE Transactions on Magnetics, 2012, 48, 4344-4346.	1.2	3
158	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. Applied Physics Letters, 2013, 103, .	1.5	3
159	Influence of output power of a spin torque oscillator on phase locked loop operation. Japanese Journal of Applied Physics, 2016, 55, 093003.	0.8	3
160	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	1.1	3
161	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. AIP Advances, 2018, 8, .	0.6	3
162	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. AIP Advances, 2018, 8, .	0.6	3

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163	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. Journal Physics D: Applied Physics, 2022, 55, 275003.	1.3	3
164	Inverse tunnel magnetoresistance associated with Coulomb staircases in micro-fabricated granular systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1091-E1093.	1.0	2
165	Physical Origin and Theoretical Limit of the Phase Stability of a Spin-Torque Oscillator Stabilized by a Phase-Locked Loop. Physical Review Applied, 2017, 7, .	1.5	2
166	Development of “spin dice” A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	0.6	2
167	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. AIP Advances, 2021, 11, .	0.6	2
168	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. Journal of Applied Physics, 2021, 129, .	1.1	2
169	Preparation of Highly-Oriented Co <sub>2</sub> MnSi Films on a Non-Single-Crystalline Substrate Using a Titanium Nitride Buffer Layer. Japanese Journal of Applied Physics, 2011, 50, 028001.	0.8	1
170	Generation of highly stable 5 GHz microwave from a spin torque oscillator by phase locked loop referenced to a 80 MHz clock. , 2015, , .		1
171	Microwave detection based on magnetoresistance effect in spintronic devices. , 2016, , .		1
172	Brain-Inspired Computing with Spintronics Devices. , 2018, , .		1
173	High frequency voltage-induced ferromagnetic resonance in magnetic tunnel junctions. Applied Physics Letters, 2019, 115, 072401.	1.5	1
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