

Akio Fukushima

List of Publications by Year in descending order

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164
papers

12,623
citations

38742

50
h-index

24258

110
g-index

164
all docs

164
docs citations

164
times ranked

6862
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. Nature Materials, 2004, 3, 868-871.	27.5	2,907
2	Neuromorphic computing with nanoscale spintronic oscillators. Nature, 2017, 547, 428-431.	27.8	893
3	Spin-torque diode effect in magnetic tunnel junctions. Nature, 2005, 438, 339-342.	27.8	771
4	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. Nature Physics, 2008, 4, 37-41.	16.7	485
5	Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. Nature Physics, 2008, 4, 803-809.	16.7	406
6	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. Nature Communications, 2010, 1, 8.	12.8	336
7	Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Co ^{0.5} Mg ^{0.5} Co magnetic tunnel junctions with bcc Co(001) electrodes. Applied Physics Letters, 2006, 89, 042505.	3.3	329
8	High Tunnel Magnetoresistance at Room Temperature in Fully Epitaxial Fe/MgO/Fe Tunnel Junctions due to Coherent Spin-Polarized Tunneling. Japanese Journal of Applied Physics, 2004, 43, L588-L590.	1.5	269
9	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. Applied Physics Letters, 2010, 97, .	3.3	255
10	Highly sensitive nanoscale spin-torque diode. Nature Materials, 2014, 13, 50-56.	27.5	228
11	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. Nature Physics, 2012, 8, 491-496.	16.7	223
12	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. Scientific Reports, 2016, 6, 31510.	3.3	186
13	Spin dice: A scalable truly random number generator based on spintronics. Applied Physics Express, 2014, 7, 083001.	2.4	174
14	Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeB/MgO/CoFeB magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, .	2.5	164
15	The NF90-NF45 Complex Functions as a Negative Regulator in the MicroRNA Processing Pathway. Molecular and Cellular Biology, 2009, 29, 3754-3769.	2.3	164
16	Vertical-current-induced domain-wall motion in MgO-based magnetic tunnel junctions with low current densities. Nature Physics, 2011, 7, 626-630.	16.7	156
17	Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2005, 44, L1237-L1240.	1.5	154
18	Spin-Torque Oscillator Based on Magnetic Tunnel Junction with a Perpendicularly Magnetized Free Layer and In-Plane Magnetized Polarizer. Applied Physics Express, 2013, 6, 103003.	2.4	144

#	ARTICLE	IF	CITATIONS
19	Large Voltage-Induced Changes in the Perpendicular Magnetic Anisotropy of an MgO-Based Tunnel Junction with an Ultrathin Fe Layer. <i>Physical Review Applied</i> , 2016, 5, .	3.8	141
20	Neural-like computing with populations of superparamagnetic basis functions. <i>Nature Communications</i> , 2018, 9, 1533.	12.8	139
21	Low-current spin-transfer switching and its thermal durability in a low-saturation-magnetization nanomagnet. <i>Applied Physics Letters</i> , 2004, 85, 5634-5636.	3.3	132
22	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. <i>Physical Review Applied</i> , 2017, 8, .	3.8	106
23	Physical reservoir computing based on spin torque oscillator with forced synchronization. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	106
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.	2.4	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, .	2.5	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.	12.8	85
27	Highly efficient voltage control of spin and enhanced interfacial perpendicular magnetic anisotropy in iridium-doped Fe/MgO magnetic tunnel junctions. <i>NPG Asia Materials</i> , 2017, 9, e451-e451.	7.9	84
28	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2015, 91, .	3.2	83
29	Brownian motion of skyrmion bubbles and its control by voltage applications. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	81
30	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	81
31	High Magnetoresistance Ratio and Low Resistanceâ€œArea Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. <i>Applied Physics Express</i> , 2010, 3, 053003.	2.4	80
32	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. <i>Nature Nanotechnology</i> , 2016, 11, 360-364.	31.5	75
33	Phase locking of vortex based spin transfer oscillators to a microwave current. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	74
34	Response to noise of a vortex based spin transfer nano-oscillator. <i>Physical Review B</i> , 2014, 89, .	3.2	74
35	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Coâˆ•MgOâˆ•Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2005, 87, 222508.	3.3	73
36	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. <i>Applied Physics Express</i> , 2015, 8, 053003.	2.4	73

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37	Large Emission Power over 2 μ W with High Q Factor Obtained from Nanocontact Magnetic-Tunnel-Junction-Based Spin Torque Oscillator. Applied Physics Express, 2013, 6, 113005.	2.4	72
38	Ultralow-Voltage Spin-Transfer Switching in Perpendicularly Magnetized Magnetic Tunnel Junctions with Synthetic Antiferromagnetic Reference Layer. Applied Physics Express, 2013, 6, 113006.	2.4	67
39	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	3.3	65
40	Tunnel Magnetoresistance above 170% and Resistance \times Area Product of 1 Ω (μ m) ² Attained by In situ Annealing of Ultra-Thin MgO Tunnel Barrier. Applied Physics Express, 2011, 4, 033002.	2.4	64
41	Subnanosecond magnetization reversal in magnetic nanopillars by spin angular momentum transfer. Applied Physics Letters, 2004, 85, 5358-5360.	3.3	61
42	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, .	3.3	60
43	High emission power and Q factor in spin torque vortex oscillator consisting of FeB free layer. Applied Physics Express, 2014, 7, 063009.	2.4	58
44	Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 2010, 3, 073001.	2.4	55
45	Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. Physical Review B, 2009, 80, .	3.2	54
46	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. Applied Physics Express, 2015, 8, 083003.	2.4	53
47	Enhancement in the interfacial perpendicular magnetic anisotropy and the voltage-controlled magnetic anisotropy by heavy metal doping at the Fe/MgO interface. APL Materials, 2018, 6, .	5.1	53
48	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. Applied Physics Express, 2013, 6, 073005.	2.4	52
49	High Q factor over 3000 due to out-of-plane precession in nano-contact spin-torque oscillator based on magnetic tunnel junctions. Applied Physics Express, 2014, 7, 023003.	2.4	52
50	Microwave emission power exceeding 10 μ W in spin torque vortex oscillator. Applied Physics Letters, 2016, 109, .	3.3	51
51	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. Scientific Reports, 2016, 5, 18134.	3.3	51
52	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201.	7.8	50
53	Effect of MgO Cap Layer on Gilbert Damping of FeB Electrode Layer in MgO-Based Magnetic Tunnel Junctions. Applied Physics Express, 2013, 6, 073002.	2.4	49
54	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. Physical Review Applied, 2014, 2, .	3.8	48

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55	Dependence of spin-transfer switching current on free layer thickness in Co \hat{e} Fe \hat{e} B \hat{a} MgO \hat{a} Co \hat{e} Fe \hat{e} B magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 032505.	3.3	43
56	Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial Fe \hat{a} MgO \hat{a} Fe magnetic tunnel junctions. Applied Physics Letters, 2007, 90, .	3.3	43
57	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, .	3.3	42
58	Future prospects of MRAM technologies. , 2013, , .		42
59	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	3.3	40
60	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. APL Materials, 2020, 8, .	5.1	40
61	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	3.3	39
62	Tunneling spectra of sputter-deposited CoFeB/MgO/CoFeB magnetic tunnel junctions showing giant tunneling magnetoresistance effect. Solid State Communications, 2005, 136, 611-615.	1.9	36
63	Spin-transfer-torque-induced rf oscillations in CoFeB/MgO/CoFeB magnetic tunnel junctions under a perpendicular magnetic field. Physical Review B, 2010, 81, .	3.2	36
64	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	3.3	35
65	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307.	1.5	35
66	Magnetization switching by spin-polarized current in low-resistance magnetic tunnel junction with MgO [001] barrier. IEEE Transactions on Magnetics, 2005, 41, 2633-2635.	2.1	34
67	Microfabrication of Magnetic Tunnel Junctions Using CH $\hat{3}$ OH Etching. IEEE Transactions on Magnetics, 2007, 43, 2776-2778.	2.1	32
68	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. Physical Review B, 2009, 80, .	3.2	32
69	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. Scientific Reports, 2016, 6, 30535.	3.3	32
70	Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. Physical Review B, 2009, 79, .	3.2	31
71	Coherent microwave generation by spintronic feedback oscillator. Scientific Reports, 2016, 6, 30747.	3.3	31
72	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 0, 1, 061303.	2.4	29

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73	Inspection of intrinsic critical currents for spin-transfer magnetization switching. IEEE Transactions on Magnetics, 2005, 41, 2615-2617.	2.1	28
74	Peltier Effect in Sub-micron-Size Metallic Junctions. Japanese Journal of Applied Physics, 2005, 44, L12-L14.	1.5	28
75	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.	2.4	28
76	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	28
77	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, .	3.8	28
78	Spin-Torque Diode Measurements of MgO-Based Magnetic Tunnel Junctions with Asymmetric Electrodes. Applied Physics Express, 2011, 4, 063001.	2.4	25
79	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002.	2.4	25
80	Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. Solid State Communications, 2007, 143, 574-578.	1.9	23
81	Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. Applied Physics Express, 0, 1, 041302.	2.4	23
82	Sub-Poissonian shot noise in CoFeB/MgO/CoFeB-based magnetic tunneling junctions. Applied Physics Letters, 2011, 98, .	3.3	23
83	Low-frequency and shot noises in CoFeB/MgO/CoFeB magnetic tunneling junctions. Physical Review B, 2012, 86, .	3.2	23
84	Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillation in magnetic tunnel junction. Applied Physics Letters, 2012, 100, .	3.3	23
85	Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. Physical Review B, 2013, 88, .	3.2	23
86	High-output microwave detector using voltage-induced ferromagnetic resonance. Applied Physics Letters, 2014, 105, 192408.	3.3	23
87	Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. Applied Physics Express, 2018, 11, 053001.	2.4	23
88	Peltier effect in metallic junctions with CPP structure. IEEE Transactions on Magnetics, 2005, 41, 2571-2573.	2.1	22
89	Giant Peltier Effect in a Submicron-Sized Cu ²⁺ Ni/Au Junction with Nanometer-Scale Phase Separation. Applied Physics Express, 2010, 3, 065204.	2.4	22
90	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003.	2.4	22

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91	MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. Journal of the Korean Physical Society, 2013, 62, 1461-1464.	0.7	21
92	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. IEEE Magnetics Letters, 2014, 5, 1-4.	1.1	19
93	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.	2.4	19
94	Estimation of thermal durability and intrinsic critical currents of magnetization switching for spin-transfer based magnetic random access memory. Journal of Applied Physics, 2005, 97, 10C707.	2.5	18
95	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	18
96	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	3.8	18
97	Reduction in switching current using a low-saturation magnetization Co ϵ Fe ϵ (Cr, V) ϵ B free layer in MgO-based magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, 07D117.	2.5	17
98	High Spin-Torque Diode Sensitivity in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions Under DC Bias Currents. IEEE Transactions on Magnetics, 2011, 47, 3373-3376.	2.1	17
99	Ultra-fast magnetization reversal in magnetic nano-pillars by spin-polarized current. Journal of Magnetism and Magnetic Materials, 2005, 286, 77-82.	2.3	16
100	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. Journal of Applied Physics, 2009, 105, .	2.5	16
101	Observations of thermally excited ferromagnetic resonance on spin torque oscillators having a perpendicularly magnetized free layer. Journal of Applied Physics, 2014, 115, 17C740.	2.5	16
102	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. Physical Review Applied, 2017, 8, .	3.8	16
103	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. Physical Review B, 2020, 101, .	3.2	16
104	Enhancement of Thermal Stability Using Ferromagnetically Coupled Synthetic Free Layers in MgO-Based Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2010, 46, 2232-2235.	2.1	15
105	Peltier cooling in current-perpendicular-to-plane metallic junctions. Journal of Applied Physics, 2006, 99, 08H706.	2.5	14
106	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. Applied Physics Letters, 2013, 103, .	3.3	14
107	Evaluation of barrier uniformity in magnetic tunnel junctions prepared using natural oxidation of thin Mg layers. Journal of Applied Physics, 2010, 108, 123915.	2.5	13
108	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.	2.4	13

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109	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co - Ni - B Alloys. Physical Review Applied, 2020, 14, .	3.8	13
110	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
111	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. Applied Physics Letters, 2018, 112, .	3.3	12
112	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2011, 99, 112504.	3.3	11
113	Enhanced Tunnel Magnetoresistance Effect in an Epitaxial Magnetic Tunnel Junction with a Hybrid $\text{Fe}_2\text{O}_3/\text{MgO}$ Barrier. Applied Physics Express, 2013, 6, 053005.	2.4	11
114	Peltier effect in multilayered nanopillars under high density charge current. Journal Physics D: Applied Physics, 2006, 39, 5267-5271.	2.8	10
115	Current-Field Driven "Spin Transistor". Applied Physics Express, 0, 2, 063004.	2.4	10
116	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. Applied Physics Express, 2016, 9, 053005.	2.4	10
117	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. Applied Physics Express, 2017, 10, 063002.	2.4	10
118	Dependence of switching current distribution on current pulse width of current-induced magnetization switching in MgO-based magnetic tunnel junction. Journal of Applied Physics, 2008, 103, 07A707.	2.5	9
119	Spin-torque induced rf oscillation in magnetic tunnel junctions with an Fe-rich CoFeB free layer. Journal of Physics: Conference Series, 2011, 266, 012098.	0.4	9
120	Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin Fe_2O_3 Layer. Applied Physics Express, 2013, 6, 113004.	2.4	9
121	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. Physical Review B, 2016, 94, .	3.2	9
122	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. APL Materials, 2021, 9, .	5.1	9
123	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between $\text{CoFeB}/\text{MgO}/\text{CoFeB}$ and $\text{CoFeB}/\text{AlOx}/\text{CoFeB}$. Journal of Applied Physics, 2006, 99, 08T309.	2.5	8
124	The effect of the MgO buffer layer thickness on magnetic anisotropy in MgO/Fe/Cr/MgO buffer/MgO(001). Journal of Applied Physics, 2016, 120, 085303.	2.5	8
125	Field angle dependence of voltage-induced ferromagnetic resonance under DC bias voltage. Journal of Magnetism and Magnetic Materials, 2016, 400, 159-162.	2.3	8
126	Composition Dependence of Perpendicular Magnetic Anisotropy in $\text{Ta}/\text{Co}_x\text{Fe}_{80-x}\text{B}_{20}/\text{MgO}/\text{Ta}$ ($x=0, 10, 60$) Multilayers. Journal of Magnetism, 2013, 18, 5-8.	0.4	8

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127	Differential conductance measurements of low-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e649-e651.	2.3	7
128	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , 2009, 2, 123003.	2.4	7
129	Spin-torque diode spectrum of ferromagnetically coupled (FeB/CoFe)/Ru/(CoFe/FeB) synthetic free layer. <i>Journal of Applied Physics</i> , 2012, 111, 07C917.	2.5	6
130	Spin Torque Diode Spectroscopy of Quantized Spin Wave Excited in a Magnetic Tunnel Junction. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 2816-2819.	2.1	6
131	Radio-frequency amplification property of the MgO-based magnetic tunnel junction using field-induced ferromagnetic resonance. <i>Applied Physics Letters</i> , 2013, 102, 162409.	3.3	6
132	Magnetotransport properties in epitaxial Fe ₃ O ₄ (001) thin films with current perpendicular to the plane geometry. <i>Journal of Applied Physics</i> , 2013, 113, 17B104.	2.5	6
133	Discontinuous frequency drop in spin torque oscillator with a perpendicularly magnetized FeB free layer. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 060307.	1.5	6
134	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, .	3.3	6
135	Interface engineering using an Fe oxide insertion layer for growing a metastable bcc-Co on MgO(001). <i>Applied Physics Letters</i> , 2015, 106, 022405.	3.3	6
136	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. <i>Science Advances</i> , 2020, 6, eabc2618.	10.3	6
137	Spin torque dynamics for noise reduction in vortex-based sensors. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	6
138	Twist in the bias dependence of spin torques in magnetic tunnel junctions. <i>Physical Review B</i> , 2016, 93, .	3.2	5
139	Study of Kondo effect in MgO-based magnetic tunnel junctions by electron tunnelling spectroscopy. <i>Journal of Physics: Conference Series</i> , 2010, 200, 052004.	0.4	4
140	Quasi-omnidirectional electrical spectrometer for studying spin dynamics in magnetic tunnel junctions. <i>Review of Scientific Instruments</i> , 2012, 83, 024710.	1.3	4
141	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	4
142	Control of the magnetic domain of Pt/Co/Ru/MgO multilayer: Effect of Co thickness and Ru insertion. <i>AIP Advances</i> , 2020, 10, .	1.3	4
143	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. <i>Applied Physics Express</i> , 2010, 3, 063001.	2.4	4
144	Accuracy of a Harmonically Operated Single Electron Pump. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 6645-6653.	1.5	3

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145	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. IEEE Transactions on Magnetics, 2012, 48, 4344-4346.	2.1	3
146	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. Applied Physics Letters, 2013, 103, .	3.3	3
147	Leak current estimated from the shot noise in magnetic tunneling junctions. Applied Physics Letters, 2014, 105, 042405.	3.3	3
148	Influence of output power of a spin torque oscillator on phase locked loop operation. Japanese Journal of Applied Physics, 2016, 55, 093003.	1.5	3
149	Accurate De-Embedding and Measurement of Spin-Torque Oscillators. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
150	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	3.2	3
151	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. AIP Advances, 2018, 8, .	1.3	3
152	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. AIP Advances, 2018, 8, .	1.3	3
153	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. Japanese Journal of Applied Physics, 2006, 45, 3842-3845.	1.5	3
154	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. Journal Physics D: Applied Physics, 2022, 55, 275003.	2.8	3
155	Lift-off process for deep-submicron-size junctions using supercritical. Journal of Magnetism and Magnetic Materials, 2007, 310, e687-e689.	2.3	2
156	Thermal stability of spin-transfer switching in CPP-GMR devices. Journal of Magnetism and Magnetic Materials, 2007, 310, 2026-2028.	2.3	2
157	Gain and Fan-Out in a Current-Field Driven Spin Transistor With an Assisting AC Magnetic Field. IEEE Transactions on Magnetics, 2012, 48, 1134-1138.	2.1	2
158	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, .	3.8	2
159	Development of “spin dice” A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
160	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. AIP Advances, 2021, 11, .	1.3	2
161	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. Journal of Applied Physics, 2021, 129, .	2.5	2
162	Quantitative Analysis of Coherent and Incoherent Tunneling Currents in MgO-Based Epitaxial Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2011, 50, 063003.	1.5	1

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163	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
164	Multi-bits memory cell using degenerated magnetic states in a synthetic antiferromagnetic reference layer. Journal of Magnetism and Magnetic Materials, 2016, 400, 370-373.	2.3	0