

# Akio Fukushima

## List of Publications by Citations

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163  
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g-index

164  
ext. papers

11,614  
ext. citations

4.4  
avg, IF

5.81  
L-index

#	Paper	IF	Citations
163	Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. <i>Nature Materials</i> , <b>2004</b> , 3, 868-71	27	2548
162	Spin-torque diode effect in magnetic tunnel junctions. <i>Nature</i> , <b>2005</b> , 438, 339-42	50.4	638
161	Neuromorphic computing with nanoscale spintronic oscillators. <i>Nature</i> , <b>2017</b> , 547, 428-431	50.4	558
160	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. <i>Nature Physics</i> , <b>2008</b> , 4, 37-41	16.2	431
159	Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. <i>Nature Physics</i> , <b>2008</b> , 4, 803-809	16.2	366
158	Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Co/MgO/Co magnetic tunnel junctions with bcc Co(001) electrodes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 042505	3.4	298
157	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. <i>Nature Communications</i> , <b>2010</b> , 1, 8	17.4	280
156	High Tunnel Magnetoresistance at Room Temperature in Fully Epitaxial Fe/MgO/Fe Tunnel Junctions due to Coherent Spin-Polarized Tunneling. <i>Japanese Journal of Applied Physics</i> , <b>2004</b> , 43, L588-L590	1.4	236
155	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 232508	3.4	226
154	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. <i>Nature Physics</i> , <b>2012</b> , 8, 491-496	16.2	195
153	Highly sensitive nanoscale spin-torque diode. <i>Nature Materials</i> , <b>2014</b> , 13, 50-6	27	168
152	The NF90-NF45 complex functions as a negative regulator in the microRNA processing pathway. <i>Molecular and Cellular Biology</i> , <b>2009</b> , 29, 3754-69	4.8	152
151	Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07D131	2.5	141
150	Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, L1237-L1240	1.4	141
149	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. <i>Scientific Reports</i> , <b>2016</b> , 6, 31510	4.9	141
148	Spin dice: A scalable truly random number generator based on spintronics. <i>Applied Physics Express</i> , <b>2014</b> , 7, 083001	2.4	134
147	Vertical-current-induced domain-wall motion in MgO-based magnetic tunnel junctions with low current densities. <i>Nature Physics</i> , <b>2011</b> , 7, 626-630	16.2	132

146	Low-current spin-transfer switching and its thermal durability in a low-saturation-magnetization nanomagnet. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5634-5636	3.4	125
145	Spin-Torque Oscillator Based on Magnetic Tunnel Junction with a Perpendicularly Magnetized Free Layer and In-Plane Magnetized Polarizer. <i>Applied Physics Express</i> , <b>2013</b> , 6, 103003	2.4	116
144	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> , <b>2016</b> , 5,	4.3	105
143	Neural-like computing with populations of superparamagnetic basis functions. <i>Nature Communications</i> , <b>2018</b> , 9, 1533	17.4	104
142	High Magnetoresistance Ratio and Low ResistanceArea Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. <i>Applied Physics Express</i> , <b>2010</b> , 3, 053003	2.4	72
141	Enhancement of perpendicular magnetic anisotropy in FeB free layers using a thin MgO cap layer. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07C723	2.5	71
140	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	68
139	Phase locking of vortex based spin transfer oscillators to a microwave current. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 132506	3.4	67
138	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	66
137	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic CoMgOBe magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 222508	3.4	66
136	Large Emission Power over 2 $\mu$ W with HighQFactor Obtained from Nanocontact Magnetic-Tunnel-Junction-Based Spin Torque Oscillator. <i>Applied Physics Express</i> , <b>2013</b> , 6, 113005	2.4	62
135	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. <i>Nature Communications</i> , <b>2017</b> , 8, 15825	17.4	57
134	Brownian motion of skyrmion bubbles and its control by voltage applications. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 012402	3.4	57
133	Subnanosecond magnetization reversal in magnetic nanopillars by spin angular momentum transfer. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5358-5360	3.4	56
132	Evaluation of write error rate for voltage-driven dynamic magnetization switching in magnetic tunnel junctions with perpendicular magnetization. <i>Applied Physics Express</i> , <b>2016</b> , 9, 013001	2.4	56
131	Response to noise of a vortex based spin transfer nano-oscillator. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	54
130	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> , <b>2017</b> , 9, e451-e451	10.3	54
129	Ultralow-Voltage Spin-Transfer Switching in Perpendicularly Magnetized Magnetic Tunnel Junctions with Synthetic Antiferromagnetic Reference Layer. <i>Applied Physics Express</i> , <b>2013</b> , 6, 113006	2.4	54

128	Tunnel Magnetoresistance above 170% and ResistanceArea Product of $1 \text{ (}\mu\text{m)}^2$ Attained by In situ Annealing of Ultra-Thin MgO Tunnel Barrier. <i>Applied Physics Express</i> , <b>2011</b> , 4, 033002	2.4	53
127	Physical reservoir computing based on spin torque oscillator with forced synchronization. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 164101	3.4	51
126	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. <i>Applied Physics Express</i> , <b>2015</b> , 8, 053003	2.4	51
125	Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	50
124	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 092406	3.4	49
123	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 360-4	28.7	48
122	High emission power and Q factor in spin torque vortex oscillator consisting of FeB free layer. <i>Applied Physics Express</i> , <b>2014</b> , 7, 063009	2.4	48
121	High Q factor over 3000 due to out-of-plane precession in nano-contact spin-torque oscillator based on magnetic tunnel junctions. <i>Applied Physics Express</i> , <b>2014</b> , 7, 023003	2.4	47
120	Effect of MgO Cap Layer on Gilbert Damping of FeB Electrode Layer in MgO-Based Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , <b>2013</b> , 6, 073002	2.4	47
119	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 012409	3.4	47
118	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. <i>Applied Physics Express</i> , <b>2015</b> , 8, 083003	2.4	45
117	Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , <b>2010</b> , 3, 073001	2.4	45
116	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. <i>Physical Review Applied</i> , <b>2014</b> , 2,	4.3	41
115	Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial FeMgOBe magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 252506	3.4	41
114	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 022408	3.4	40
113	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. <i>Physical Review Letters</i> , <b>2015</b> , 115, 017201	7.4	40
112	Dependence of spin-transfer switching current on free layer thickness in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 032505	3.4	39
111	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. <i>Applied Physics Express</i> , <b>2013</b> , 6, 073005	2.4	38

110	Tunneling spectra of sputter-deposited CoFeB/MgO/CoFeB magnetic tunnel junctions showing giant tunneling magnetoresistance effect. <i>Solid State Communications</i> , <b>2005</b> , 136, 611-615	1.6	36
109	High domain wall velocities via spin transfer torque using vertical current injection. <i>Scientific Reports</i> , <b>2013</b> , 3, 1829	4.9	35
108	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. <i>Scientific Reports</i> , <b>2015</b> , 5, 18134	4.9	35
107	Thermal stability and spin-transfer switchings in MgO-based magnetic tunnel junctions with ferromagnetically and antiferromagnetically coupled synthetic free layers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 242504	3.4	34
106	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. <i>Scientific Reports</i> , <b>2016</b> , 6, 26849	4.9	34
105	Microwave emission power exceeding 10 mW in spin torque vortex oscillator. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 252402	3.4	33
104	Spin-transfer-torque-induced rf oscillations in CoFeB/MgO/CoFeB magnetic tunnel junctions under a perpendicular magnetic field. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	32
103	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	32
102	Magnetization switching by spin-polarized current in low-resistance magnetic tunnel junction with MgO [001] barrier. <i>IEEE Transactions on Magnetics</i> , <b>2005</b> , 41, 2633-2635	2	32
101	Enhancement in the interfacial perpendicular magnetic anisotropy and the voltage-controlled magnetic anisotropy by heavy metal doping at the Fe/MgO interface. <i>APL Materials</i> , <b>2018</b> , 6, 026101	5.7	31
100	Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	31
99	Microfabrication of Magnetic Tunnel Junctions Using CH <sub>3</sub> OH Etching. <i>IEEE Transactions on Magnetics</i> , <b>2007</b> , 43, 2776-2778	2	31
98	Future prospects of MRAM technologies <b>2013</b> ,		30
97	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 022404	3.4	30
96	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. <i>Scientific Reports</i> , <b>2016</b> , 6, 30535	4.9	28
95	Peltier Effect in Sub-micron-Size Metallic Junctions. <i>Japanese Journal of Applied Physics</i> , <b>2005</b> , 44, L12-L14		26
94	Coherent microwave generation by spintronic feedback oscillator. <i>Scientific Reports</i> , <b>2016</b> , 6, 30747	4.9	25
93	Damping parameter and interfacial perpendicular magnetic anisotropy of FeB nanopillar sandwiched between MgO barrier and cap layers in magnetic tunnel junctions. <i>Applied Physics Express</i> , <b>2014</b> , 7, 033004	2.4	24

92	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , <b>2008</b> , 1, 061303	2.4	24
91	. <i>IEEE Transactions on Magnetism</i> , <b>2005</b> , 41, 2615-2617	2	24
90	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 172403	3.4	23
89	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. <i>Physical Review Applied</i> , <b>2014</b> , 2,	4.3	23
88	Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Solid State Communications</i> , <b>2007</b> , 143, 574-578	1.6	23
87	Giant Peltier Effect in a Submicron-Sized CuNi/Au Junction with Nanometer-Scale Phase Separation. <i>Applied Physics Express</i> , <b>2010</b> , 3, 065204	2.4	22
86	Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. <i>Applied Physics Express</i> , <b>2008</b> , 1, 041302	2.4	22
85	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. <i>Applied Physics Express</i> , <b>2014</b> , 7, 073002	2.4	21
84	High-output microwave detector using voltage-induced ferromagnetic resonance. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 192408	3.4	21
83	Low-frequency and shot noises in CoFeB/MgO/CoFeB magnetic tunneling junctions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	21
82	Spin-Torque Diode Measurements of MgO-Based Magnetic Tunnel Junctions with Asymmetric Electrodes. <i>Applied Physics Express</i> , <b>2011</b> , 4, 063001	2.4	21
81	Sub-Poissonian shot noise in CoFeB/MgO/CoFeB-based magnetic tunneling junctions. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 202103	3.4	21
80	MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. <i>Journal of the Korean Physical Society</i> , <b>2013</b> , 62, 1461-1464	0.6	20
79	Peltier effect in metallic junctions with CPP structure. <i>IEEE Transactions on Magnetism</i> , <b>2005</b> , 41, 2571-2573		20
78	Bias field angle dependence of the self-oscillation of spin torque oscillators having a perpendicularly magnetized free layer and in-plane magnetized reference layer. <i>Applied Physics Express</i> , <b>2014</b> , 7, 063005	2.4	19
77	Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	18
76	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. <i>Japanese Journal of Applied Physics</i> , <b>2018</b> , 57, 120307	1.4	18
75	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. <i>IEEE Magnetism Letters</i> , <b>2014</b> , 5, 1-4	1.6	17

74	Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillation in magnetic tunnel junction. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 042408	3.4	17
73	Estimation of thermal durability and intrinsic critical currents of magnetization switching for spin-transfer based magnetic random access memory. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10C707	2.5	17
72	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. <i>Applied Physics Express</i> , <b>2016</b> , 9, 013003	2.4	16
71	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07C924	2.5	16
70	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. <i>APL Materials</i> , <b>2020</b> , 8, 011108	5.7	15
69	Observations of thermally excited ferromagnetic resonance on spin torque oscillators having a perpendicularly magnetized free layer. <i>Journal of Applied Physics</i> , <b>2014</b> , 115, 17C740	2.5	15
68	Reduction in switching current using a low-saturation magnetization CoFe(Cr, V)B free layer in MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 07D117	2.5	15
67	Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. <i>Applied Physics Express</i> , <b>2018</b> , 11, 053001	2.4	15
66	High Spin-Torque Diode Sensitivity in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions Under DC Bias Currents. <i>IEEE Transactions on Magnetics</i> , <b>2011</b> , 47, 3373-3376	2	14
65	. <i>IEEE Transactions on Magnetics</i> , <b>2010</b> , 46, 2232-2235	2	14
64	Ultra-fast magnetization reversal in magnetic nano-pillars by spin-polarized current. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 286, 77-82	2.8	14
63	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	13
62	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. <i>IEEE Transactions on Magnetics</i> , <b>2015</b> , 51, 1-4	2	13
61	Evaluation of barrier uniformity in magnetic tunnel junctions prepared using natural oxidation of thin Mg layers. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 123915	2.5	13
60	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 242415	3.4	11
59	Peltier cooling in current-perpendicular-to-plane metallic junctions. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08H706	2.5	11
58	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 253502	3.4	11
57	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. <i>Applied Physics Express</i> , <b>2017</b> , 10, 063002	2.4	10

56	Enhanced Tunnel Magnetoresistance Effect in an Epitaxial Magnetic Tunnel Junction with a Hybrid $\text{Fe}_2\text{O}_3/\text{MgO}$ Barrier. <i>Applied Physics Express</i> , <b>2013</b> , 6, 053005	2.4	10
55	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. <i>Applied Physics Express</i> , <b>2016</b> , 9, 053006	2.4	10
54	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 112504	3.4	9
53	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> , <b>2008</b> , 103, 07A707	2.5	9
52	Peltier effect in multilayered nanopillars under high density charge current. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 5267-5271	3	9
51	Current-Field Driven Spin Transistor. <i>Applied Physics Express</i> , <b>2009</b> , 2, 063004	2.4	8
50	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between $\text{CoFeB}/\text{MgO}/\text{CoFeB}$ and $\text{CoFeB}/\text{AlO}_x/\text{CoFeB}$ . <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 08T309	2.5	8
49	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. <i>Journal of Magnetism</i> , <b>2013</b> , 18, 5-8	1.9	8
48	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. <i>Applied Physics Express</i> , <b>2016</b> , 9, 053005	2.4	8
47	Field angle dependence of voltage-induced ferromagnetic resonance under DC bias voltage. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 400, 159-162	2.8	7
46	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	7
45	Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin $\text{Fe}_2\text{O}_3$ Layer. <i>Applied Physics Express</i> , <b>2013</b> , 6, 113004	2.4	7
44	Spin-torque induced rf oscillation in magnetic tunnel junctions with an Fe-rich $\text{CoFeB}$ free layer. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 266, 012098	0.3	7
43	Differential conductance measurements of low-resistance $\text{CoFeB}/\text{MgO}/\text{CoFeB}$ magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, e649-e651	2.8	7
42	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
41	The effect of the MgO buffer layer thickness on magnetic anisotropy in $\text{MgO}/\text{Fe}/\text{Cr}/\text{MgO}$ buffer/ $\text{MgO}(001)$ . <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 085303	2.5	7
40	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 262408	3.4	7
39	Interface engineering using an Fe oxide insertion layer for growing a metastable bcc-Co on $\text{MgO}(001)$ . <i>Applied Physics Letters</i> , <b>2015</b> , 106, 022405	3.4	6

38	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	6
37	Magnetotransport properties in epitaxial Fe <sub>3</sub> O <sub>4</sub> (001) thin films with current perpendicular to the plane geometry. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 17B104	2.5	6
36	Spin-torque diode spectrum of ferromagnetically coupled (FeB/CoFe)/Ru/(CoFe/FeB) synthetic free layer. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07C917	2.5	6
35	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , <b>2009</b> , 2, 123003	2.4	6
34	Discontinuous frequency drop in spin torque oscillator with a perpendicularly magnetized FeB free layer. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 060307	1.4	5
33	Radio-frequency amplification property of the MgO-based magnetic tunnel junction using field-induced ferromagnetic resonance. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 162409	3.4	5
32	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. <i>Science Advances</i> , <b>2020</b> , 6, eabc2618	14.3	5
31	Twist in the bias dependence of spin torques in magnetic tunnel junctions. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	4
30	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> , <b>2015</b> , 107, 182404	3.4	4
29	Spin Torque Diode Spectroscopy of Quantized Spin Wave Excited in a Magnetic Tunnel Junction. <i>IEEE Transactions on Magnetics</i> , <b>2012</b> , 48, 2816-2819	2	4
28	Study of Kondo effect in MgO-based magnetic tunnel junctions by electron tunnelling spectroscopy. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 052004	0.3	4
27	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co-Ni-B Alloys. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	4
26	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. <i>Applied Physics Express</i> , <b>2010</b> , 3, 063001	2.4	4
25	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. <i>AIP Advances</i> , <b>2018</b> , 8, 056010	1.5	3
24	Influence of output power of a spin torque oscillator on phase locked loop operation. <i>Japanese Journal of Applied Physics</i> , <b>2016</b> , 55, 093003	1.4	3
23	Leak current estimated from the shot noise in magnetic tunneling junctions. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 042405	3.4	3
22	Quasi-omnidirectional electrical spectrometer for studying spin dynamics in magnetic tunnel junctions. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 024710	1.7	3
21	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. <i>Japanese Journal of Applied Physics</i> , <b>2006</b> , 45, 3842-3845	1.4	3

20	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. <i>APL Materials</i> , <b>2021</b> , 9, 030905	5.7	3
19	Accurate De-Embedding and Measurement of Spin-Torque Oscillators. <i>IEEE Transactions on Magnetism</i> , <b>2017</b> , 53, 1-4	2	2
18	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. <i>AIP Advances</i> , <b>2018</b> , 8, 055925	1.5	2
17	Gain and Fan-Out in a Current-Field Driven Spin Transistor With an Assisting AC Magnetic Field. <i>IEEE Transactions on Magnetism</i> , <b>2012</b> , 48, 1134-1138	2	2
16	Physical Origin and Theoretical Limit of the Phase Stability of a Spin-Torque Oscillator Stabilized by a Phase-Locked Loop. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	2
15	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. <i>IEEE Transactions on Magnetism</i> , <b>2012</b> , 48, 4344-4346	2	2
14	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 042404	3.4	2
13	Lift-off process for deep-submicron-size junctions using supercritical. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, e687-e689	2.8	2
12	Thermal stability of spin-transfer switching in CPP-GMR devices. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 2026-2028	2.8	2
11	Accuracy of a Harmonically Operated Single Electron Pump. <i>Japanese Journal of Applied Physics</i> , <b>2001</b> , 40, 6645-6653	1.4	2
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9	Control of the magnetic domain of Pt/Co/Ru/MgO multilayer: Effect of Co thickness and Ru insertion. <i>AIP Advances</i> , <b>2020</b> , 10, 035130	1.5	1
8	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 193901	2.5	1
7	Quantitative Analysis of Coherent and Incoherent Tunneling Currents in MgO-Based Epitaxial Magnetic Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , <b>2011</b> , 50, 063003	1.4	1
6	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 024503	2.5	1
5	Spin-Torque dynamics for noise reduction in vortex-based sensors. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 122401	3.4	0
4	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 275003	3	0
3	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. <i>IEEE Transactions on Magnetism</i> , <b>2015</b> , 51, 1-4	2	

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