Akio Fukushima

List of Publications by Year in Descending Order

163 papers	10,348 citations	45 h-index	100 g-index
164 ext. papers	11,614 ext. citations	4.4 avg, IF	5.81 L-index

#	Paper	IF	Citations
163	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/Mo/CoFeB/MgO junctions. *Journal Physics D: Applied Physics*, **2022**, 55, 275003	3	0
162	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. *APL Materials*, **2021**, 9, 030905	5.7	3
161	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. *AIP Advances*, **2021**, 11, 015142	1.5	
160	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. *Journal of Applied Physics*, **2021**, 129, 024503	2.5	1
159	Spin□orque dynamics for noise reduction in vortex-based sensors. *Applied Physics Letters*, **2021**, 118, 122401	3.4	0
158	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. *Physical Review B*, **2020**, 101,	3.3	7
157	Control of the magnetic domain of Pt/Co/Ru/MgO multilayer: Effect of Co thickness and Ru insertion. *AIP Advances*, **2020**, 10, 035130	1.5	1
156	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. *Physical Review Applied*, **2020**, 13,	4.3	6
155	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. *APL Materials*, **2020**, 8, 011108	5.7	15
154	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co-Ni-B Alloys. *Physical Review Applied*, **2020**, 14,	4.3	4
153	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. *Science Advances*, **2020**, 6, eabc2618	14.3	5
152	Physical reservoir computing based on spin torque oscillator with forced synchronization. *Applied Physics Letters*, **2019**, 114, 164101	3.4	51
151	Development of □pin dice□□A Scalable Random Number Generator Based on Spin-Torque Switching. *Spin*, **2019**, 09, 1940009	1.3	2
150	Brownian motion of skyrmion bubbles and its control by voltage applications. *Applied Physics Letters*, **2019**, 114, 012402	3.4	57
149	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. *Applied Physics Letters*, **2019**, 114, 012409	3.4	47
148	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, 026101	5.7	31
147	Neural-like computing with populations of superparamagnetic basis functions. *Nature Communications*, **2018**, 9, 1533	17.4	104

146	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. *AIP Advances*, **2018**, 8, 055925	1.5	2
145	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. *AIP Advances*, **2018**, 8, 056010	1.5	3
144	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. *Japanese Journal of Applied Physics*, **2018**, 57, 120307	1.4	18
143	Achievement of high diode sensitivity via spin torque-induced resonant expulsion in vortex magnetic tunnel junction. *Applied Physics Express*, **2018**, 11, 053001	2.4	15
142	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. *Applied Physics Letters*, **2018**, 112, 262408	3.4	7
141	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. *Applied Physics Letters*, **2017**, 110, 092406	3.4	49
140	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. *Applied Physics Express*, **2017**, 10, 063002	2.4	10
139	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. *Nature Communications*, **2017**, 8, 15825	17.4	57
138	Accurate De-Embedding and Measurement of Spin-Torque Oscillators. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2	2
137	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. *Applied Physics Letters*, **2017**, 111, 022408	3.4	40
136	Neuromorphic computing with nanoscale spintronic oscillators. *Nature*, **2017**, 547, 428-431	50.4	558
135	Highly efficient voltage control of spin and enhanced interfacial perpendicular magnetic anisotropy in iridium-doped Fe/MgO magnetic tunnel junctions. *NPG Asia Materials*, **2017**, 9, e451-e451	10.3	54
134	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. *Journal of Applied Physics*, **2017**, 122, 193901	2.5	1
133	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. *Physical Review Applied*, **2017**, 8,	4.3	66
132	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,	4.3	2
131	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. *Physical Review Applied*, **2017**, 8,	4.3	13
130	Field angle dependence of voltage-induced ferromagnetic resonance under DC bias voltage. *Journal of Magnetism and Magnetic Materials*, **2016**, 400, 159-162	2.8	7
129	Large Voltage-Induced Changes in the Perpendicular Magnetic Anisotropy of an MgO-Based Tunnel Junction with an Ultrathin Fe Layer. *Physical Review Applied*, **2016**, 5,	4.3	105

128	Twist in the bias dependence of spin torques in magnetic tunnel junctions. *Physical Review B*, **2016**, 93,	3.3	4
127	Influence of output power of a spin torque oscillator on phase locked loop operation. *Japanese Journal of Applied Physics*, **2016**, 55, 093003	1.4	3
126	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. *Scientific Reports*, **2016**, 6, 30535	4.9	28
125	Multi-bits memory cell using degenerated magnetic states in a synthetic antiferromagnetic reference layer. *Journal of Magnetism and Magnetic Materials*, **2016**, 400, 370-373	2.8	
124	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. *Nature Nanotechnology*, **2016**, 11, 360-4	28.7	48
123	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. *Applied Physics Express*, **2016**, 9, 013003	2.4	16
122	Evaluation of write error rate for voltage-driven dynamic magnetization switching in magnetic tunnel junctions with perpendicular magnetization. *Applied Physics Express*, **2016**, 9, 013001	2.4	56
121	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. *Scientific Reports*, **2016**, 6, 26849	4.9	34
120	Coherent microwave generation by spintronic feedback oscillator. *Scientific Reports*, **2016**, 6, 30747	4.9	25
119	Microwave emission power exceeding 10 μW in spin torque vortex oscillator. *Applied Physics Letters* , **2016**, 109, 252402	3.4	33
118	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. *Applied Physics Letters*, **2016**, 108, 253502	3.4	11
117	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. *Physical Review B*, **2016**, 94,	3.3	7
116	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. *Scientific Reports*, **2016**, 6, 31510	4.9	141
115	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	7
114	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. *Applied Physics Express*, **2016**, 9, 053005	2.4	8
113	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	10
112	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. *Applied Physics Express*, **2015**, 8, 053003	2.4	51
111	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. *Applied Physics Express*, **2015**, 8, 083003	2.4	45

110	Interface engineering using an Fe oxide insertion layer for growing a metastable bcc-Co on MgO(001). *Applied Physics Letters*, **2015**, 106, 022405	3.4	6
109	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	
108	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. *Physical Review Letters*, **2015**, 115, 017201	7.4	40
107	Increased magnetic damping of a single domain wall and adjacent magnetic domains detected by spin torque diode in a nanostripe. *Applied Physics Letters*, **2015**, 107, 182404	3.4	4
106	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. *Physical Review B*, **2015**, 91,	3.3	68
105	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	13
104	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. *Scientific Reports*, **2015**, 5, 18134	4.9	35
103	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	15
102	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	47
101	Highly sensitive nanoscale spin-torque diode. *Nature Materials*, **2014**, 13, 50-6	27	168
100	Spin dice: A scalable truly random number generator based on spintronics. *Applied Physics Express*, **2014**, 7, 083001	2.4	134
99	High emission power and Q factor in spin torque vortex oscillator consisting of FeB free layer. *Applied Physics Express*, **2014**, 7, 063009	2.4	48
98	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
97	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. *Applied Physics Express*, **2014**, 7, 073002	2.4	21
96	Response to noise of a vortex based spin transfer nano-oscillator. *Physical Review B*, **2014**, 89,	3.3	54
95	Discontinuous frequency drop in spin torque oscillator with a perpendicularly magnetized FeB free layer. *Japanese Journal of Applied Physics*, **2014**, 53, 060307	1.4	5
94	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	24
93	High-output microwave detector using voltage-induced ferromagnetic resonance. *Applied Physics Letters*, **2014**, 105, 192408	3.4	21

92	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. *IEEE Magnetics Letters*, **2014**, 5, 1-4	1.6	17
91	Leak current estimated from the shot noise in magnetic tunneling junctions. *Applied Physics Letters*, **2014**, 105, 042405	3.4	3
90	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. *Applied Physics Letters* , **2014**, 105, 172403	3.4	23
89	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. *Applied Physics Letters*, **2014**, 105, 022404	3.4	30
88	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. *Physical Review Applied*, **2014**, 2,	4.3	41
87	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. *Physical Review Applied*, **2014**, 2,	4.3	23
86	MgO overlayer thickness dependence of perpendicular magnetic anisotropy in CoFeB thin films. *Journal of the Korean Physical Society*, **2013**, 62, 1461-1464	0.6	20
85	Future prospects of MRAM technologies **2013**,		30
84	Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. *Physical Review B*, **2013**, 88,	3.3	18
83	Large Emission Power over 2 μW with HighQFactor Obtained from Nanocontact Magnetic-Tunnel-Junction-Based Spin Torque Oscillator. *Applied Physics Express*, **2013**, 6, 113005	2.4	62
82	Enhanced Tunnel Magnetoresistance Effect in an Epitaxial Magnetic Tunnel Junction with a Hybrid γ-Fe2O3/MgO Barrier. *Applied Physics Express*, **2013**, 6, 053005	2.4	10
81	Radio-frequency amplification property of the MgO-based magnetic tunnel junction using field-induced ferromagnetic resonance. *Applied Physics Letters*, **2013**, 102, 162409	3.4	5
80	High domain wall velocities via spin transfer torque using vertical current injection. *Scientific Reports*, **2013**, 3, 1829	4.9	35
79	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. *Applied Physics Express*, **2013**, 6, 073005	2.4	38
78	Magnetotransport properties in epitaxial Fe3O4(001) thin films with current perpendicular to the plane geometry. *Journal of Applied Physics*, **2013**, 113, 17B104	2.5	6
77	Ultralow-Voltage Spin-Transfer Switching in Perpendicularly Magnetized Magnetic Tunnel Junctions with Synthetic Antiferromagnetic Reference Layer. *Applied Physics Express*, **2013**, 6, 113006	2.4	54
76	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	47
75	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. *Applied Physics Letters*, **2013**, 103, 242415	3.4	11

74	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	116
73	Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin Fe2O3Layer. *Applied Physics Express*, **2013**, 6, 113004	2.4	7
72	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. *Applied Physics Letters*, **2013**, 103, 042404	3.4	2
71	Composition Dependence of Perpendicular Magnetic Anisotropy in Ta/CoxFe80-xB20/MgO/Ta (x=0, 10, 60) Multilayers. *Journal of Magnetics*, **2013**, 18, 5-8	1.9	8
70	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	2
69	Spin Torque Diode Spectroscopy of Quantized Spin Wave Excited in a Magnetic Tunnel Junction. *IEEE Transactions on Magnetics*, **2012**, 48, 2816-2819	2	4
68	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. *IEEE Transactions on Magnetics*, **2012**, 48, 4344-4346	2	2
67	Low-frequency and shot noises in CoFeB/MgO/CoFeB magnetic tunneling junctions. *Physical Review B*, **2012**, 86,	3.3	21
66	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. *Nature Physics*, **2012**, 8, 491-496	16.2	195
65	Temperature dependence of microwave voltage emission associated to spin-transfer induced vortex oscillation in magnetic tunnel junction. *Applied Physics Letters*, **2012**, 100, 042408	3.4	17
64	Spin-torque diode spectrum of ferromagnetically coupled (FeB/CoFe)/Ru/(CoFe/FeB) synthetic free layer. *Journal of Applied Physics*, **2012**, 111, 07C917	2.5	6
63	Quasi-omnidirectional electrical spectrometer for studying spin dynamics in magnetic tunnel junctions. *Review of Scientific Instruments*, **2012**, 83, 024710	1.7	3
62	Enhancement of perpendicular magnetic anisotropy in FeB free layers using a thin MgO cap layer. *Journal of Applied Physics*, **2012**, 111, 07C723	2.5	71
61	Tunnel Magnetoresistance above 170% and Resistance-Area Product of 1 (μm)2Attained byIn situAnnealing of Ultra-Thin MgO Tunnel Barrier. *Applied Physics Express*, **2011**, 4, 033002	2.4	53
60	Spin-torque induced rf oscillation in magnetic tunnel junctions with an Fe-rich CoFeB free layer. *Journal of Physics: Conference Series*, **2011**, 266, 012098	0.3	7
59	Vertical-current-induced domain-wall motion in MgO-based magnetic tunnel junctions with low current densities. *Nature Physics*, **2011**, 7, 626-630	16.2	132
58	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	14
57	Phase locking of vortex based spin transfer oscillators to a microwave current. *Applied Physics Letters*, **2011**, 98, 132506	3.4	67

56	Spin-Torque Diode Measurements of MgO-Based Magnetic Tunnel Junctions with Asymmetric Electrodes. *Applied Physics Express*, **2011**, 4, 063001	2.4	21
55	Sub-Poissonian shot noise in CoFeB/MgO/CoFeB-based magnetic tunneling junctions. *Applied Physics Letters*, **2011**, 98, 202103	3.4	21
54	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. *Applied Physics Letters*, **2011**, 99, 112504	3.4	9
53	Quantitative Analysis of Coherent and Incoherent Tunneling Currents in MgO-Based Epitaxial Magnetic Tunnel Junctions. *Japanese Journal of Applied Physics*, **2011**, 50, 063003	1.4	1
52	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
51	Giant Peltier Effect in a Submicron-Sized Cu□Ni/Au Junction with Nanometer-Scale Phase Separation. *Applied Physics Express*, **2010**, 3, 065204	2.4	22
50	High Magnetoresistance Ratio and Low Resistance□Area Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. *Applied Physics Express*, **2010**, 3, 053003	2.4	72
49	Spin-transfer-torque-induced rf oscillations in CoFeB/MgO/CoFeB magnetic tunnel junctions under a perpendicular magnetic field. *Physical Review B*, **2010**, 81,	3.3	32
48	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. *Applied Physics Letters*, **2010**, 97, 232508	3.4	226
47	Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. *Applied Physics Express*, **2010**, 3, 073001	2.4	45
46	Study of Kondo effect in MgO-based magnetic tunnel junctions by electron tunnelling spectroscopy. *Journal of Physics: Conference Series*, **2010**, 200, 052004	0.3	4
45	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. *Nature Communications*, **2010**, 1, 8	17.4	280
44	. *IEEE Transactions on Magnetics*, **2010**, 46, 2232-2235	2	14
43	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. *Applied Physics Express*, **2010**, 3, 063001	2.4	4
42	Spin-dependent tunneling in epitaxial Fe/Cr/MgO/Fe magnetic tunnel junctions with an ultrathin Cr(001) spacer layer. *Physical Review B*, **2009**, 79,	3.3	31
41	Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. *Physical Review B*, **2009**, 80,	3.3	50
40	Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeB□MgO□CoFeB magnetic tunnel junctions. *Journal of Applied Physics*, **2009**, 105, 07D131	2.5	141
39	Current-Field Driven Spin Transistor. *Applied Physics Express*, **2009**, 2, 063004	2.4	8

38	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. *Journal of Applied Physics*, **2009**, 105, 07C924	2.5	16
37	Reduction in switching current using a low-saturation magnetization CoFeB(Cr, V)B free layer in MgO-based magnetic tunnel junctions. *Journal of Applied Physics*, **2009**, 105, 07D117	2.5	15
36	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, 242504	3.4	34
35	The NF90-NF45 complex functions as a negative regulator in the microRNA processing pathway. *Molecular and Cellular Biology*, **2009**, 29, 3754-69	4.8	152
34	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. *Physical Review B*, **2009**, 80,	3.3	32
33	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. *Applied Physics Express*, **2009**, 2, 123003	2.4	6
32	Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. *Nature Physics*, **2008**, 4, 803-809	16.2	366
31	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. *Nature Physics*, **2008**, 4, 37-41	16.2	431
30	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. *Applied Physics Express*, **2008**, 1, 061303	2.4	24
29	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
28	Spin-Transfer Switching and Thermal Stability in an FePt/Au/FePt Nanopillar Prepared by Alternate Monatomic Layer Deposition. *Applied Physics Express*, **2008**, 1, 041302	2.4	22
27	Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial FeMgOFe magnetic tunnel junctions. *Applied Physics Letters*, **2007**, 90, 252506	3.4	41
26	Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. *Solid State Communications*, **2007**, 143, 574-578	1.6	23
25	Differential conductance measurements of low-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, e649-e651	2.8	7
24	Lift-off process for deep-submicron-size junctions using supercritical. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, e687-e689	2.8	2
23	Thermal stability of spin-transfer switching in CPP-GMR devices. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 2026-2028	2.8	2
22	Microfabrication of Magnetic Tunnel Junctions Using CH$_{3}$OH Etching. *IEEE Transactions on Magnetics*, **2007**, 43, 2776-2778	2	31
21	Peltier effect in multilayered nanopillars under high density charge current. *Journal Physics D: Applied Physics*, **2006**, 39, 5267-5271	3	9

20	Dependence of spin-transfer switching current on free layer thickness in CoFeB/MgO/CoFeB magnetic tunnel junctions. *Applied Physics Letters*, **2006**, 89, 032505	3.4	39
19	Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Co/MgO/Co magnetic tunnel junctions with bcc Co(001) electrodes. *Applied Physics Letters*, **2006**, 89, 042505	3.4	298
18	Peltier cooling in current-perpendicular-to-plane metallic junctions. *Journal of Applied Physics*, **2006**, 99, 08H706	2.5	11
17	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between CoFeB/MgO/CoFeB and CoFeB/AlO/CoFeB. *Journal of Applied Physics*, **2006**, 99, 08T309	2.5	8
16	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. *Japanese Journal of Applied Physics*, **2006**, 45, 3842-3845	1.4	3
15	Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. *Japanese Journal of Applied Physics*, **2005**, 44, L1237-L1240	1.4	141
14	Tunneling spectra of sputter-deposited CoFeB/MgO/CoFeB magnetic tunnel junctions showing giant tunneling magnetoresistance effect. *Solid State Communications*, **2005**, 136, 611-615	1.6	36
13	Spin-torque diode effect in magnetic tunnel junctions. *Nature*, **2005**, 438, 339-42	50.4	638
12	Peltier effect in metallic junctions with CPP structure. *IEEE Transactions on Magnetics*, **2005**, 41, 2571-2573	1.3	20
11	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	32
10	. *IEEE Transactions on Magnetics*, **2005**, 41, 2615-2617	2	24
9	Ultra-fast magnetization reversal in magnetic nano-pillars by spin-polarized current. *Journal of Magnetism and Magnetic Materials*, **2005**, 286, 77-82	2.8	14
8	Peltier Effect in Sub-micron-Size Metallic Junctions. *Japanese Journal of Applied Physics*, **2005**, 44, L12-L14	1.4	26
7	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	17
6	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Co/MgO/Fe magnetic tunnel junctions. *Applied Physics Letters*, **2005**, 87, 222508	3.4	66
5	Subnanosecond magnetization reversal in magnetic nanopillars by spin angular momentum transfer. *Applied Physics Letters*, **2004**, 85, 5358-5360	3.4	56
4	Low-current spin-transfer switching and its thermal durability in a low-saturation-magnetization nanomagnet. *Applied Physics Letters*, **2004**, 85, 5634-5636	3.4	125
3	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	1.4	236

2	Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. *Nature Materials*, **2004**, 3, 868-71	27	2548
1	Accuracy of a Harmonically Operated Single Electron Pump. *Japanese Journal of Applied Physics*, **2001**, 40, 6645-6653	1.4	2