

Akio Fukushima

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2763437/publications.pdf>

Version: 2024-02-01

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	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
2	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. AIP Advances, 2021, 11, .	1.3	2
3	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. Journal of Applied Physics, 2021, 129, .	2.5	2
4	Spin-torque dynamics for noise reduction in vortex-based sensors. Applied Physics Letters, 2021, 118, .	3.3	6
5	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. APL Materials, 2021, 9, .	5.1	9
6	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. Science Advances, 2020, 6, eabc2618.	10.3	6
7	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. Physical Review B, 2020, 101, .	3.2	16
8	Control of the magnetic domain of Pt/Co/Ru/MgO multilayer: Effect of Co thickness and Ru insertion. AIP Advances, 2020, 10, .	1.3	4
9	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	3.8	18
10	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. APL Materials, 2020, 8, .	5.1	40
11	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co - Ni - B Alloys. Physical Review Applied, 2020, 14, .	3.8	13
12	Physical reservoir computing based on spin torque oscillator with forced synchronization. Applied Physics Letters, 2019, 114, .	3.3	106
13	Development of "spin dice" A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
14	Brownian motion of skyrmion bubbles and its control by voltage applications. Applied Physics Letters, 2019, 114, .	3.3	81
15	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. Applied Physics Letters, 2019, 114, .	3.3	81
16	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
17	Neural-like computing with populations of superparamagnetic basis functions. Nature Communications, 2018, 9, 1533.	12.8	139
18	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. AIP Advances, 2018, 8, .	1.3	3

#	ARTICLE	IF	CITATIONS
19	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. AIP Advances, 2018, 8, .	1.3	3
20	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307.	1.5	35
21	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
22	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. Applied Physics Letters, 2018, 112, .	3.3	12
23	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	3.3	65
24	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. Applied Physics Express, 2017, 10, 063002.	2.4	10
25	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. Nature Communications, 2017, 8, 15825.	12.8	85
26	Accurate De-Embedding and Measurement of Spin-Torque Oscillators. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3
27	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, .	3.3	60
28	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	3.2	3
29	Neuromorphic computing with nanoscale spintronic oscillators. Nature, 2017, 547, 428-431.	27.8	893
30	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.	7.9	84
31	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. Journal of Applied Physics, 2017, 122, .	2.5	4
32	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. Physical Review Applied, 2017, 8, .	3.8	106
33	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
34	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. Physical Review Applied, 2017, 8, .	3.8	16
35	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	87
36	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	3.3	40

#	ARTICLE	IF	CITATIONS
37	Coherent microwave generation by spintronic feedback oscillator. Scientific Reports, 2016, 6, 30747.	3.3	31
38	Microwave emission power exceeding 10^{-14} W in spin torque vortex oscillator. Applied Physics Letters, 2016, 109, .	3.3	51
39	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
40	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. Scientific Reports, 2016, 5, 18134.	3.3	51
41	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. Physical Review B, 2016, 94, .	3.2	9
42	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. Scientific Reports, 2016, 6, 31510.	3.3	186
43	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
44	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. Applied Physics Express, 2016, 9, 053005.	2.4	10
45	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
46	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, .	3.8	141
47	Twist in the bias dependence of spin torques in magnetic tunnel junctions. Physical Review B, 2016, 93, .	3.2	5
48	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
49	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. Scientific Reports, 2016, 6, 30535.	3.3	32
50	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
51	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. Nature Nanotechnology, 2016, 11, 360-364.	31.5	75
52	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003.	2.4	22
53	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
54	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201.	7.8	50

#	ARTICLE	IF	CITATIONS
55	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, .	3.3	6
56	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, .	3.2	83
57	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	18
58	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. Applied Physics Express, 2015, 8, 053003.	2.4	73
59	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. Applied Physics Express, 2015, 8, 083003.	2.4	53
60	Interface engineering using an Fe oxide insertion layer for growing a metastable bcc-Co on MgO(001). Applied Physics Letters, 2015, 106, 022405.	3.3	6
61	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0
62	Discontinuous frequency drop in spin torque oscillator with a perpendicularly magnetized FeB free layer. Japanese Journal of Applied Physics, 2014, 53, 060307.	1.5	6
63	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
64	High-output microwave detector using voltage-induced ferromagnetic resonance. Applied Physics Letters, 2014, 105, 192408.	3.3	23
65	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. IEEE Magnetics Letters, 2014, 5, 1-4.	1.1	19
66	Leak current estimated from the shot noise in magnetic tunneling junctions. Applied Physics Letters, 2014, 105, 042405.	3.3	3
67	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	28
68	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	3.3	35
69	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. Physical Review Applied, 2014, 2, .	3.8	48
70	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, .	3.8	28
71	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
72	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

#	ARTICLE	IF	CITATIONS
73	Highly sensitive nanoscale spin-torque diode. Nature Materials, 2014, 13, 50-56.	27.5	228
74	Spin dice: A scalable truly random number generator based on spintronics. Applied Physics Express, 2014, 7, 083001.	2.4	174
75	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
76	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
77	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002.	2.4	25
78	Response to noise of a vortex based spin transfer nano-oscillator. Physical Review B, 2014, 89, .	3.2	74
79	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
80	Future prospects of MRAM technologies. , 2013, , .		42
81	Parametric excitation of magnetic vortex gyrations in spin-torque nano-oscillators. Physical Review B, 2013, 88, .	3.2	23
82	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
83	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
84	Radio-frequency amplification property of the MgO-based magnetic tunnel junction using field-induced ferromagnetic resonance. Applied Physics Letters, 2013, 102, 162409.	3.3	6
85	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	3.3	39
86	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. Applied Physics Express, 2013, 6, 073005.	2.4	52
87	Magnetotransport properties in epitaxial $\text{Fe}_3\text{O}_4(001)$ thin films with current perpendicular to the plane geometry. Journal of Applied Physics, 2013, 113, 17B104.	2.5	6
88	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
89	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
90	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. Applied Physics Letters, 2013, 103, .	3.3	14

#	ARTICLE	IF	CITATIONS
91	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
92	Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin β -Fe ₂ O ₃ Layer. Applied Physics Express, 2013, 6, 113004.	2.4	9
93	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. Applied Physics Letters, 2013, 103, .	3.3	3
94	Composition Dependence of Perpendicular Magnetic Anisotropy in Ta/Co _x Fe _{80-x} B ₂₀ /MgO/Ta (x=0, 10, 60) Multilayers. Journal of Magnetism, 2013, 18, 5-8.	0.4	8
95	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
96	Quasi-omnidirectional electrical spectrometer for studying spin dynamics in magnetic tunnel junctions. Review of Scientific Instruments, 2012, 83, 024710.	1.3	4
97	Enhancement of perpendicular magnetic anisotropy in FeB free layers using a thin MgO cap layer. Journal of Applied Physics, 2012, 111, .	2.5	85
98	Spin Torque Diode Spectroscopy of Quantized Spin Wave Excited in a Magnetic Tunnel Junction. IEEE Transactions on Magnetism, 2012, 48, 2816-2819.	2.1	6
99	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. IEEE Transactions on Magnetism, 2012, 48, 4344-4346.	2.1	3
100	Low-frequency and shot noises in CoFeB/MgO/CoFeB magnetic tunneling junctions. Physical Review B, 2012, 86, .	3.2	23
101	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. Nature Physics, 2012, 8, 491-496.	16.7	223
102	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
103	Gain and Fan-Out in a Current-Field Driven Spin Transistor With an Assisting AC Magnetic Field. IEEE Transactions on Magnetism, 2012, 48, 1134-1138.	2.1	2
104	Tunnel Magnetoresistance above 170% and Resistance \times Area Product of $1 \text{ } \hat{\text{C}} (\text{Å}\mu\text{m})^2$ Attained by <i>In situ</i> Annealing of Ultra-Thin MgO Tunnel Barrier. Applied Physics Express, 2011, 4, 033002.	2.4	64
105	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
106	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
107	High Spin-Torque Diode Sensitivity in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions Under DC Bias Currents. IEEE Transactions on Magnetism, 2011, 47, 3373-3376.	2.1	17
108	Phase locking of vortex based spin transfer oscillators to a microwave current. Applied Physics Letters, 2011, 98, .	3.3	74

#	ARTICLE	IF	CITATIONS
109	Spin-Torque Diode Measurements of MgO-Based Magnetic Tunnel Junctions with Asymmetric Electrodes. Applied Physics Express, 2011, 4, 063001.	2.4	25
110	Sub-Poissonian shot noise in CoFeB/MgO/CoFeB-based magnetic tunneling junctions. Applied Physics Letters, 2011, 98, .	3.3	23
111	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2011, 99, 112504.	3.3	11
112	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
113	Study of Kondo effect in MgO-based magnetic tunnel junctions by electron tunnelling spectroscopy. Journal of Physics: Conference Series, 2010, 200, 052004.	0.4	4
114	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. Nature Communications, 2010, 1, 8.	12.8	336
115	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
116	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
117	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
118	High Magnetoresistance Ratio and Low Resistance \times Area Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. Applied Physics Express, 2010, 3, 053003.	2.4	80
119	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
120	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. Applied Physics Letters, 2010, 97, .	3.3	255
121	Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 2010, 3, 073001.	2.4	55
122	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. Applied Physics Express, 2010, 3, 063001.	2.4	4
123	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. Applied Physics Express, 2009, 2, 123003.	2.4	7
124	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
125	Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. Physical Review B, 2009, 80, .	3.2	54
126	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

#	ARTICLE	IF	CITATIONS
127	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	16
128	Reduction in switching current using a low-saturation magnetization Co $\hat{\cdot}$ Fe $\hat{\cdot}$ (Cr, V) $\hat{\cdot}$ B free layer in MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2009, 105, 07D117.	2.5	17
129	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> , 2009, 95, .	3.3	42
130	The NF90-NF45 Complex Functions as a Negative Regulator in the MicroRNA Processing Pathway. <i>Molecular and Cellular Biology</i> , 2009, 29, 3754-3769.	2.3	164
131	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. <i>Physical Review B</i> , 2009, 80, .	3.2	32
132	Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. <i>Nature Physics</i> , 2008, 4, 803-809.	16.7	406
133	Quantitative measurement of voltage dependence of spin-transfer torque in MgO-based magnetic tunnel junctions. <i>Nature Physics</i> , 2008, 4, 37-41.	16.7	485
134	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.	2.5	9
135	Oscillation of giant tunneling magnetoresistance with respect to tunneling barrier thickness in fully epitaxial Fe $\hat{\cdot}$ MgO $\hat{\cdot}$ Fe magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2007, 90, .	3.3	43
136	Dependence on annealing temperatures of tunneling spectra in high-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Solid State Communications</i> , 2007, 143, 574-578.	1.9	23
137	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
138	Lift-off process for deep-submicron-size junctions using supercritical. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, e687-e689.	2.3	2
139	Thermal stability of spin-transfer switching in CPP-GMR devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2026-2028.	2.3	2
140	Microfabrication of Magnetic Tunnel Junctions Using CH $_3$ OH Etching. <i>IEEE Transactions on Magnetics</i> , 2007, 43, 2776-2778.	2.1	32
141	Giant tunneling magnetoresistance up to 410% at room temperature in fully epitaxial Co $\hat{\cdot}$ MgO $\hat{\cdot}$ Co magnetic tunnel junctions with bcc Co(001) electrodes. <i>Applied Physics Letters</i> , 2006, 89, 042505.	3.3	329
142	Peltier cooling in current-perpendicular-to-plane metallic junctions. <i>Journal of Applied Physics</i> , 2006, 99, 08H706.	2.5	14
143	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between CoFeB $\hat{\cdot}$ MgO $\hat{\cdot}$ CoFeB and CoFeB $\hat{\cdot}$ Al $\hat{\cdot}$ O $\hat{\cdot}$ CoFeB. <i>Journal of Applied Physics</i> , 2006, 99, 08T309.	2.5	8
144	Peltier effect in multilayered nanopillars under high density charge current. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 5267-5271.	2.8	10

#	ARTICLE	IF	CITATIONS
145	Dependence of spin-transfer switching current on free layer thickness in Co ^{0.5} Fe ^{0.5} B ^{0.5} MgO ^{0.5} Co ^{0.5} Fe ^{0.5} B magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 032505.	3.3	43
146	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. Japanese Journal of Applied Physics, 2006, 45, 3842-3845.	1.5	3
147	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
148	Spin-torque diode effect in magnetic tunnel junctions. Nature, 2005, 438, 339-342.	27.8	771
149	Peltier effect in metallic junctions with CPP structure. IEEE Transactions on Magnetics, 2005, 41, 2571-2573.	2.1	22
150	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
151	Inspection of intrinsic critical currents for spin-transfer magnetization switching. IEEE Transactions on Magnetics, 2005, 41, 2615-2617.	2.1	28
152	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
153	Peltier Effect in Sub-micron-Size Metallic Junctions. Japanese Journal of Applied Physics, 2005, 44, L12-L14.	1.5	28
154	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
155	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Co ^{0.5} MgO ^{0.5} Fe magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 222508.	3.3	73
156	Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2005, 44, L1237-L1240.	1.5	154
157	Subnanosecond magnetization reversal in magnetic nanopillars by spin angular momentum transfer. Applied Physics Letters, 2004, 85, 5358-5360.	3.3	61
158	Low-current spin-transfer switching and its thermal durability in a low-saturation-magnetization nanomagnet. Applied Physics Letters, 2004, 85, 5634-5636.	3.3	132
159	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
160	Giant room-temperature magnetoresistance in single-crystal Fe/MgO/Fe magnetic tunnel junctions. Nature Materials, 2004, 3, 868-871.	27.5	2,907
161	Accuracy of a Harmonically Operated Single Electron Pump. Japanese Journal of Applied Physics, 2001, 40, 6645-6653.	1.5	3
162	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 0, 1, 061303.	2.4	29

#	ARTICLE	IF	CITATIONS
163	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
164	Current-Field Driven "Spin Transistor". Applied Physics Express, 0, 2, 063004.	2.4	10