

# Hitoshi Kubota

## List of Publications by Year in descending order

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312  
papers

12,874  
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30070

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315  
docs citations

315  
times ranked

6161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuromorphic computing with nanoscale spintronic oscillators. <i>Nature</i> , 2017, 547, 428-431.	27.8	893
2	Spin-torque diode effect in magnetic tunnel junctions. <i>Nature</i> , 2005, 438, 339-342.	27.8	771
3	Giant tunneling magnetoresistance in Co <sub>2</sub> MnSi/AlO <sub>x</sub> /Co <sub>2</sub> MnSi magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2006, 88, 192508.	3.3	551
4	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
5	Bias-driven high-power microwave emission from MgO-based tunnel magnetoresistance devices. <i>Nature Physics</i> , 2008, 4, 803-809.	16.7	406
6	Vowel recognition with four coupled spin-torque nano-oscillators. <i>Nature</i> , 2018, 563, 230-234.	27.8	356
7	Large microwave generation from current-driven magnetic vortex oscillators in magnetic tunnel junctions. <i>Nature Communications</i> , 2010, 1, 8.	12.8	336
8	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> , 2006, 89, 042505.	3.3	329
9	Ultrathin Co/Pt and Co/Pd superlattice films for MgO-based perpendicular magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	255
10	Highly sensitive nanoscale spin-torque diode. <i>Nature Materials</i> , 2014, 13, 50-56.	27.5	228
11	Electric-field-induced ferromagnetic resonance excitation in an ultrathin ferromagnetic metal layer. <i>Nature Physics</i> , 2012, 8, 491-496.	16.7	223
12	Huge Spin-Polarization of L21-Ordered Co <sub>2</sub> MnSi Epitaxial Heusler Alloy Film. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L1100-L1102.	1.5	208
13	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. <i>Scientific Reports</i> , 2016, 6, 31510.	3.3	186
14	Spin dice: A scalable truly random number generator based on spintronics. <i>Applied Physics Express</i> , 2014, 7, 083001.	2.4	174
15	Lower-current and fast switching of a perpendicular TMR for high speed and high density spin-transfer-torque MRAM. , 2008, , .		172
16	High efficient spin transfer torque writing on perpendicular magnetic tunnel junctions for high density MRAMs. <i>Current Applied Physics</i> , 2010, 10, e87-e89.	2.4	168
17	Influence of perpendicular magnetic anisotropy on spin-transfer switching current in CoFeB/MgO/CoFeB magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	164
18	Evaluation of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L1237-L1240.	1.5	154

#	ARTICLE	IF	CITATIONS
19	Spin-Torque Oscillator Based on Magnetic Tunnel Junction with a Perpendicularly Magnetized Free Layer and In-Plane Magnetized Polarizer. <i>Applied Physics Express</i> , 2013, 6, 103003.	2.4	144
20	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
21	Neural-like computing with populations of superparamagnetic basis functions. <i>Nature Communications</i> , 2018, 9, 1533.	12.8	139
22	Fabrication of high-magnetoresistance tunnel junctions using Co <sub>75</sub> Fe <sub>25</sub> ferromagnetic electrodes. <i>Applied Physics Letters</i> , 2000, 77, 283-285.	3.3	118
23	Large tunnel magnetoresistance in magnetic tunnel junctions using Co <sub>2</sub> MnX (X = Al, Si) Heusler alloys. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 834-841.	2.8	109
24	Spin-transfer torque induced by the spin anomalous Hall effect. <i>Nature Electronics</i> , 2018, 1, 120-123.	26.0	108
25	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. <i>Physical Review Applied</i> , 2017, 8, .	3.8	106
26	Physical reservoir computing based on spin torque oscillator with forced synchronization. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	106
27	Direct observation of half-metallic energy gap in Co <sub>2</sub> MnSi by tunneling conductance spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 052508.	3.3	99
28	Macromagnetic Simulation for Reservoir Computing Utilizing Spin Dynamics in Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2018, 10, .	3.8	97
29	Large Magnetoresistance in Magnetic Tunnel Junctions Using Co-Mn-Al Full Heusler Alloy. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L984-L986.	1.5	89
30	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
31	Magnetic tunnel junctions using B <sub>2</sub> -ordered Co <sub>2</sub> MnAl Heusler alloy epitaxial electrode. <i>Applied Physics Letters</i> , 2006, 88, 022503.	3.3	85
32	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
33	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
34	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
35	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
36	Brownian motion of skyrmion bubbles and its control by voltage applications. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	81

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37	High Magnetoresistance Ratio and Low Resistanceâ€œArea Product in Magnetic Tunnel Junctions with Perpendicularly Magnetized Electrodes. Applied Physics Express, 2010, 3, 053003.	2.4	80
38	Pulse voltage-induced dynamic magnetization switching in magnetic tunneling junctions with high resistance-area product. Applied Physics Letters, 2012, 101, .	3.3	77
39	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. Nature Nanotechnology, 2016, 11, 360-364.	31.5	75
40	Phase locking of vortex based spin transfer oscillators to a microwave current. Applied Physics Letters, 2011, 98, .	3.3	74
41	Response to noise of a vortex based spin transfer nano-oscillator. Physical Review B, 2014, 89, .	3.2	74
42	Giant tunneling magnetoresistance in fully epitaxial body-centered-cubic Coâˆ•MgOâˆ•Fe magnetic tunnel junctions. Applied Physics Letters, 2005, 87, 222508.	3.3	73
43	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. Applied Physics Express, 2015, 8, 053003.	2.4	73
44	Large Emission Power over 2 $\mu$ W with High $Q$ Factor Obtained from Nanocontact Magnetic-Tunnel-Junction-Based Spin Torque Oscillator. Applied Physics Express, 2013, 6, 113005.	2.4	72
45	Fabrication of Co <sub>2</sub> MnAl Heusler Alloy Epitaxial Film Using Cr Buffer Layer. Japanese Journal of Applied Physics, 2005, 44, 6535-6537.	1.5	68
46	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
47	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	3.3	65
48	Newly designed quantitative frame trawl for sampling larval and juvenile pelagic fish. Fisheries Science, 2004, 70, 223-232.	1.6	64
49	Spin-dependent tunneling spectroscopy in single-crystal Feâˆ•MgOâˆ•Fe tunnel junctions. Applied Physics Letters, 2005, 87, 142502.	3.3	64
50	Tunnel Magnetoresistance above 170% and Resistanceâ€œArea Product of 1 $\times$ ( $\text{\AA}\mu\text{m}$ ) <sup>2</sup> Attained by <i>In situ</i> Annealing of Ultra-Thin MgO Tunnel Barrier. Applied Physics Express, 2011, 4, 033002.	2.4	64
51	Spin-Torque Diode Effect and Its Application. Journal of the Physical Society of Japan, 2008, 77, 031002.	1.6	62
52	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, .	3.3	60
53	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
54	Large Diode Sensitivity of CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. Applied Physics Express, 2010, 3, 073001.	2.4	55

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55	Origin of the spectral linewidth in nonlinear spin-transfer oscillators based on MgO tunnel junctions. <i>Physical Review B</i> , 2009, 80, .	3.2	54
56	Design of Combinatorial Shadow Masks for Complete Ternary-Phase Diagramming of Solid State Materials. <i>ACS Combinatorial Science</i> , 2004, 6, 50-53.	3.3	53
57	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. <i>Applied Physics Express</i> , 2015, 8, 083003.	2.4	53
58	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> , 2018, 6, .	5.1	53
59	Voltage-Induced Magnetic Anisotropy Changes in an Ultrathin FeB Layer Sandwiched between Two MgO Layers. <i>Applied Physics Express</i> , 2013, 6, 073005.	2.4	52
60	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> , 2014, 7, 023003.	2.4	52
61	Microwave emission power exceeding $10^{1/4}$ W in spin torque vortex oscillator. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	51
62	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. <i>Scientific Reports</i> , 2016, 5, 18134.	3.3	51
63	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. <i>Physical Review Letters</i> , 2015, 115, 017201.	7.8	50
64	Effect of MgO Cap Layer on Gilbert Damping of FeB Electrode Layer in MgO-Based Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , 2013, 6, 073002.	2.4	49
65	Scaling up electrically synchronized spin torque oscillator networks. <i>Scientific Reports</i> , 2018, 8, 13475.	3.3	49
66	Critical Field of Spin Torque Oscillator with Perpendicularly Magnetized Free Layer. <i>Applied Physics Express</i> , 2013, 6, 123003.	2.4	48
67	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. <i>Physical Review Applied</i> , 2014, 2, .	3.8	48
68	Role of non-linear data processing on speech recognition task in the framework of reservoir computing. <i>Scientific Reports</i> , 2020, 10, 328.	3.3	48
69	Stimulated rat liver mitochondrial biogenesis after partial hepatectomy. <i>Cancer Research</i> , 1989, 49, 4913-8.	0.9	48
70	Giant magnetoresistance and interlayer exchange coupling in Ni-Co/Cu multilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , 1994, 129, 383-388.	2.3	45
71	Temporal Pattern Recognition with Delayed-Feedback Spin-Torque Nano-Oscillators. <i>Physical Review Applied</i> , 2019, 12, .	3.8	45
72	Magnon-assisted inelastic excitation spectra of a ferromagnetic tunnel junction. <i>Journal of Applied Physics</i> , 2000, 87, 5209-5211.	2.5	43

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73	Dependence of spin-transfer switching current on free layer thickness in Co <sup>2+</sup> Fe <sup>2+</sup> B <sup>2+</sup> ·MgO <sup>2+</sup> ·Co <sup>2+</sup> Fe <sup>2+</sup> B <sup>2+</sup> magnetic tunnel junctions. Applied Physics Letters, 2006, 89, 032505.	3.3	43
74	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
75	Future prospects of MRAM technologies. , 2013, , .		42
76	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	3.3	40
77	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. APL Materials, 2020, 8, .	5.1	40
78	Sub-Nanometer Resolution Ultrasonic Motor for 300 mm Wafer Lithography Precision Stage. Japanese Journal of Applied Physics, 2002, 41, 5858-5863.	1.5	39
79	High domain wall velocities via spin transfer torque using vertical current injection. Scientific Reports, 2013, 3, 1829.	3.3	39
80	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
81	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
82	Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001.	2.8	36
83	Annealing Effect on Low-Resistance Ferromagnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2000, 39, 5832-5837.	1.5	35
84	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	3.3	35
85	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307.	1.5	35
86	Magnetization switching by spin-polarized current in low-resistance magnetic tunnel junction with MgO [001] barrier. IEEE Transactions on Magnetism, 2005, 41, 2633-2635.	2.1	34
87	High-Magnetoresistance Tunnel Junctions Using Co <sub>75</sub> Fe <sub>25</sub> Ferromagnetic Electrodes. Japanese Journal of Applied Physics, 2000, 39, L439-L441.	1.5	32
88	Local current distribution in a ferromagnetic tunnel junction measured using conducting atomic force microscopy. Journal of Applied Physics, 2000, 87, 5206-5208.	2.5	32
89	Microfabrication of Magnetic Tunnel Junctions Using CH <sub>3</sub> OH Etching. IEEE Transactions on Magnetism, 2007, 43, 2776-2778.	2.1	32
90	Spin-torque-induced switching and precession in fully epitaxial Fe/MgO/Fe magnetic tunnel junctions. Physical Review B, 2009, 80, .	3.2	32

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91	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. <i>Scientific Reports</i> , 2016, 6, 30535.	3.3	32
92	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by a Controlled Voltage Pulse. <i>Physical Review Applied</i> , 2019, 11, .	3.8	32
93	Hard mask fabrication for magnetic random access memory elements using focused ion beam assisted selective chemical vapor deposition. <i>Journal of Applied Physics</i> , 2003, 93, 8370-8372.	2.5	31
94	Coherent microwave generation by spintronic feedback oscillator. <i>Scientific Reports</i> , 2016, 6, 30747.	3.3	31
95	Local Transport Property on Ferromagnetic Tunnel Junction Measured Using Conducting Atomic Force Microscope. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L737-L739.	1.5	29
96	Size dependence of switching field of magnetic tunnel junctions down to 50 nm scale. <i>Journal of Applied Physics</i> , 2003, 94, 2028-2032.	2.5	29
97	Single-Shot Measurements of Spin-Transfer Switching in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions. <i>Applied Physics Express</i> , 0, 1, 061303.	2.4	29
98	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. <i>Physical Review Applied</i> , 2018, 10, .	3.8	29
99	Peltier Effect in Sub-micron-Size Metallic Junctions. <i>Japanese Journal of Applied Physics</i> , 2005, 44, L12-L14.	1.5	28
100	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> , 2014, 7, 033004.	2.4	28
101	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	28
102	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. <i>Physical Review Applied</i> , 2014, 2, .	3.8	28
103	Self-oscillation in spin torque oscillator stabilized by field-like torque. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	27
104	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. <i>Nature Nanotechnology</i> , 2019, 14, 40-43.	31.5	26
105	Temperature dependence of the giant magnetoresistance in Ni-Co/Cu, Ni-Fe/Cu, and Co-Fe/Cu multilayer films. <i>Physical Review B</i> , 1995, 52, 343-349.	3.2	25
106	Direct Observation of Magnon Excitation in a Ferromagnetic Tunnel Junction Using Inelastic-Electron-Tunneling Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1106-L1108.	1.5	25
107	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. <i>Applied Physics Express</i> , 2014, 7, 073002.	2.4	25
108	Instability analysis of spin-torque oscillator with an in-plane magnetized free layer and a perpendicularly magnetized pinned layer. <i>Physical Review B</i> , 2016, 93, .	3.2	25

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109	Periodic structure of memory function in spintronics reservoir with feedback current. Physical Review Research, 2020, 2, .	3.6	24
110	CO+NH <sub>3</sub> plasma etching for magnetic thin films. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1421-E1422.	2.3	23
111	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
112	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
113	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
114	Parametric excitation of magnetic vortex gyration in spin-torque nano-oscillators. Physical Review B, 2013, 88, .	3.2	23
115	High-output microwave detector using voltage-induced ferromagnetic resonance. Applied Physics Letters, 2014, 105, 192408.	3.3	23
116	Magnetization switching by current and microwaves. Physical Review B, 2016, 93, .	3.2	23
117	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
118	Composition dependence of giant magnetoresistance in Ni <sub>x</sub> Co <sub>1-x</sub> /Cu (x = 0~1) multilayer films. Journal of Magnetism and Magnetic Materials, 1993, 126, 463-465.	2.3	22
119	Peltier effect in metallic junctions with CPP structure. IEEE Transactions on Magnetics, 2005, 41, 2571-2573.	2.1	22
120	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
121	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003.	2.4	22
122	Inelastic magnon and phonon excitations in Al <sub>1-x</sub> Co <sub>x</sub> /Al <sub>1-x</sub> Co <sub>x</sub> -oxide/Al tunnel junctions. Applied Physics Letters, 2001, 78, 2533-2535.	3.3	21
123	Half-metallic band structure observed in Co <sub>2</sub> MnSi-based magnetic tunnel junctions. Journal Physics D: Applied Physics, 2007, 40, 1221-1227.	2.8	21
124	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
125	Growth mechanism of thin insulating layer in ferromagnetic tunnel junctions prepared using various oxidation methods. Journal Physics D: Applied Physics, 2002, 35, 2415-2421.	2.8	20
126	Giant charge-to-spin conversion in ferromagnet via spin-orbit coupling. Nature Communications, 2021, 12, 6254.	12.8	20

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127	Spin-polarized magnetic tunnelling magnetoresistive effects in various junctions. <i>Journal Physics D: Applied Physics</i> , 1998, 31, 630-636.	2.8	19
128	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. <i>IEEE Magnetics Letters</i> , 2014, 5, 1-4.	1.1	19
129	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> , 2014, 7, 063005.	2.4	19
130	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/MgO junctions with atomically thin Ta adhesion layers. <i>Acta Materialia</i> , 2021, 216, 117097.	7.9	19
131	Magnetoresistance and Dipole Shift of Ultrasmall Magnetic Tunnel Junctions Characterized by Conducting Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L180-L182.	1.5	18
132	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	2.1	18
133	Reduction in the write error rate of voltage-induced dynamic magnetization switching using the reverse bias method. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 040311.	1.5	18
134	Step-like dependence of memory function on pulse width in spintronics reservoir computing. <i>Scientific Reports</i> , 2020, 10, 19536.	3.3	18
135	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. <i>Physical Review Applied</i> , 2020, 13, .	3.8	18
136	Binding events through the mutual synchronization of spintronic nano-neurons. <i>Nature Communications</i> , 2022, 13, 883.	12.8	18
137	Comparison between giant magnetoresistance in Fe $\epsilon$ -Co $\epsilon$ -Ni/Cu multilayers and anisotropic magnetoresistance in the ternary alloys. <i>Journal of Applied Physics</i> , 1997, 81, 5187-5189.	2.5	17
138	Reduction in switching current using a low-saturation magnetization Co $\epsilon$ -Fe $\epsilon$ -(Cr, V) $\epsilon$ B free layer in MgO-based magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2009, 105, 07D117.	2.5	17
139	High Spin-Torque Diode Sensitivity in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions Under DC Bias Currents. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 3373-3376.	2.1	17
140	Relaxation time and critical slowing down of a spin-torque oscillator. <i>Physical Review B</i> , 2017, 96, .	3.2	17
141	Mutual synchronization of spin-torque oscillators consisting of perpendicularly magnetized free layers and in-plane magnetized pinned layers. <i>Applied Physics Express</i> , 2018, 11, 013005.	2.4	17
142	Magnetic properties of c-axis oriented SmFe $_{12}$ /Fe nanocomposite films. <i>Journal of Applied Physics</i> , 2000, 87, 6125-6127.	2.5	16
143	Inelastic tunneling spectra of MgO barrier magnetic tunneling junctions showing large magnon contribution. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	16
144	Observations of thermally excited ferromagnetic resonance on spin torque oscillators having a perpendicularly magnetized free layer. <i>Journal of Applied Physics</i> , 2014, 115, 17C740.	2.5	16

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145	Neuromorphic computing through time-multiplexing with a spin-torque nano-oscillator. , 2017, IEDM 2017, .		16
146	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. Physical Review Applied, 2017, 8, .	3.8	16
147	Vector network analyzer ferromagnetic resonance spectrometer with field differential detection. Review of Scientific Instruments, 2018, 89, 053901.	1.3	16
148	Inducing out-of-plane precession of magnetization for microwave-assisted magnetic recording with an oscillating polarizer in a spin-torque oscillator. Applied Physics Letters, 2019, 114, .	3.3	16
149	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. Physical Review B, 2020, 101, .	3.2	16
150	Magnetic properties and giant magnetoresistance in Fe/Cr multilayer films. Journal of Magnetism and Magnetic Materials, 1992, 103, 13-18.	2.3	15
151	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
152	Anomalous temperature dependence of the giant magnetoresistance in Ni/Cu, Ni <sub>95</sub> Co <sub>5</sub> /Cu and Ni <sub>95</sub> Fe <sub>5</sub> /Cu multilayer films. Journal of Magnetism and Magnetic Materials, 1997, 167, 12-20.	2.3	14
153	Peltier cooling in current-perpendicular-to-plane metallic junctions. Journal of Applied Physics, 2006, 99, 08H706.	2.5	14
154	Spin control by application of electric current and voltage in FeCo/MgO junctions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3658-3678.	3.4	14
155	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. Applied Physics Letters, 2013, 103, .	3.3	14
156	Theoretical Study of Spin-Torque Oscillator with Perpendicularly Magnetized Free Layer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	14
157	Synchronization and chaos in a spin-torque oscillator with a perpendicularly magnetized free layer. Physical Review B, 2019, 100, .	3.2	14
158	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. Nano Letters, 2020, 20, 6012-6017.	9.1	14
159	Switching properties and dynamic domain structures in double barrier magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2004, 282, 225-231.	2.3	13
160	Bias-voltage dependence of magnetoresistance in magnetic tunnel junctions grown on Al <sub>2</sub> O <sub>3</sub> (0001) substrates. Applied Physics Letters, 2005, 86, 102506.	3.3	13
161	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
162	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

#	ARTICLE	IF	CITATIONS
163	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co - Ni - B Alloys. Physical Review Applied, 2020, 14, .	3.8	13
164	Giant magnetoresistance of artificial Ni <sub>1-x</sub> Fe <sub>x</sub> /Cu, Ni <sub>1-x</sub> Co <sub>x</sub> /Cu and Co <sub>1-x</sub> Fe <sub>x</sub> /Cu superlattices and their temperature dependence. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1995, 31, 213-218.	3.5	12
165	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
166	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. Applied Physics Letters, 2018, 112, .	3.3	12
167	Composition Dependence of the Magnetoresistance for Ni-Co/Cu and Co-Fe/Cu Multilayer Films.. Journal of the Magnetism Society of Japan, 1994, 18, 335-339.	0.4	12
168	Switching-probability distribution of spin-torque switching in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2011, 99, 112504.	3.3	11
169	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
170	Self-Injection Locking of a Spin Torque Nano-Oscillator to Magnetic Field Feedback. Physical Review Applied, 2018, 10, .	3.8	11
171	Mutual Synchronization of Spin-Torque Nano-Oscillators Via Oersted Magnetic Fields Created by Waveguides. Physical Review Applied, 2019, 11, .	3.8	11
172	Magnetoresistance of Co <sub>2</sub> MnAl <sub>1-x</sub> Si <sub>x</sub> Heusler Alloys.. Journal of the Magnetism Society of Japan, 1999, 23, 1129-1132.	0.4	11
173	Peltier effect in multilayered nanopillars under high density charge current. Journal Physics D: Applied Physics, 2006, 39, 5267-5271.	2.8	10
174	Current-Field Driven "Spin Transistor". Applied Physics Express, 0, 2, 063004.	2.4	10
175	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. Applied Physics Express, 2016, 9, 053005.	2.4	10
176	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. Applied Physics Express, 2017, 10, 063002.	2.4	10
177	Magnetic Tunnel Junctions with a Nearly Zero Moment Manganese Nanolayer with Perpendicular Magnetic Anisotropy. ACS Applied Materials & Interfaces, 2018, 10, 43305-43310.	8.0	10
178	Evaluation of higher order magnetic anisotropy in a perpendicularly magnetized epitaxial ultrathin Fe layer and its applied voltage dependence. Japanese Journal of Applied Physics, 2019, 58, 090905.	1.5	10
179	Enhancing the interfacial perpendicular magnetic anisotropy and tunnel magnetoresistance by inserting an ultrathin LiF layer at an Fe/MgO interface. NPG Asia Materials, 2022, 14, .	7.9	10
180	Magnetic tunnel junctions with high magnetoresistance and small bias voltage dependence using epitaxial NiFe(111) ferromagnetic bottom electrodes. Journal of Applied Physics, 2003, 93, 8555-8557.	2.5	9

#	ARTICLE	IF	CITATIONS
181	Fabrication and characterization of Co <sup>1-x</sup> Mn <sup>x</sup> Al Heusler-type thin film. Journal of Applied Physics, 2005, 97, 10C913.	2.5	9
182	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
183	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
184	Growth of a High-Quality Ultrathin Fe(001) Layer on MgO(001) by Insertion of an Ultrathin $\text{Fe}_2\text{O}_3$ Layer. Applied Physics Express, 2013, 6, 113004.	2.4	9
185	Spintronic nano-oscillators: Towards nanoscale and tunable frequency devices. , 2014, , .		9
186	Stable oscillation in spin torque oscillator excited by a small in-plane magnetic field. Journal of Applied Physics, 2015, 118, 053903.	2.5	9
187	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. Physical Review B, 2016, 94, .	3.2	9
188	Spin torque oscillator for microwave assisted magnetization reversal. Japanese Journal of Applied Physics, 2018, 57, 053001.	1.5	9
189	Effect of Electric Field on the Exchange-Stiffness Constant in a $\text{Co}_{12}\text{Fe}_6\text{B}_{16}$ Disk-Shaped Nanomagnet. Physical Review Applied, 2018, 10, .		
190	Low offset frequency flicker noise in spin-torque vortex oscillators. Physical Review B, 2019, 99, .		
191	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. APL Materials, 2021, 9, .	5.1	9
192	Tunnel magnetoresistance in Ni <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> /Co/Al <sub>2</sub> O <sub>3</sub> /Co junctions. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 173-175.	2.3	8
193	Effect of microstructure on the magnetoresistive properties of NiFe/Co(CoFe)/Al(Ta) oxide/Co(CoFe) tunnel junctions. Journal of Applied Physics, 2001, 89, 2752-2755.	2.5	8
194	Fabrication of SmFe <sub>12</sub> /Fe thin films as anisotropic nanocomposite magnet. Journal of Alloys and Compounds, 2006, 408-412, 1368-1372.	5.5	8
195	Tunneling spectroscopy of magnetic tunnel junctions: Comparison between CoFeB/MgO/CoFeB and CoFeB/Al <sub>2</sub> O <sub>3</sub> /CoFeB. Journal of Applied Physics, 2006, 99, 08T309.	2.5	8
196	rf amplification in a three-terminal magnetic tunnel junction with a magnetic vortex structure. Applied Physics Letters, 2009, 95, 022513.	3.3	8
197	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
198	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

#	ARTICLE	IF	CITATIONS
199	Fabrication of Mg-X-O (X = Fe, Co, Ni, Cr, Mn, Ti, V, and Zn) barriers for magnetic tunnel junctions. AIP Advances, 2018, 8, .	1.3	8
200	Composition Dependence of Perpendicular Magnetic Anisotropy in Ta/Co <sub>x</sub> Fe <sub>80-x</sub> B <sub>20</sub> /MgO/Ta (x=0, 10, 60) Multilayers. Journal of Magnetism, 2013, 18, 5-8.	0.4	8
201	Temperature Dependence of Tunnel Magnetoresistance in Co-Mn-Al/Al-Oxide/Co-Fe Junctions. Japanese Journal of Applied Physics, 2005, 44, L760-L762.	1.5	7
202	Reduction of switching fields of submicrometer sized magnetic tunnel junction with NiFe-based synthetic ferrimagnetic free layer. Journal of Applied Physics, 2007, 101, 023905.	2.5	7
203	Differential conductance measurements of low-resistance CoFeB/MgO/CoFeB magnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2007, 310, e649-e651.	2.3	7
204	Frequency Converter Based on Nanoscale MgO Magnetic Tunnel Junctions. Applied Physics Express, 2009, 2, 123003.	2.4	7
205	Spin-torque diode with tunable sensitivity and bandwidth by out-of-plane magnetic field. Applied Physics Letters, 2016, 108, 232407.	3.3	7
206	Light-emitting-diode Lambertian light sources as low-radiant-flux standards applicable to quantitative luminescence-intensity imaging. Review of Scientific Instruments, 2017, 88, 093704.	1.3	7
207	Reservoir Computing Based on Spintronics Technology. Natural Computing Series, 2021, , 331-360.	2.2	7
208	Enhancement of Tunnel Magnetoresistance Effect on Junction with Co Cluster Layers in Coulomb Blockade Regime. Japanese Journal of Applied Physics, 1999, 38, L932-L934.	1.5	6
209	Effect of diffusion barrier in the thermally annealed exchange-biased IrMn-CoFe electrode in magnetic tunnel junctions. IEEE Transactions on Magnetism, 2002, 38, 2715-2717.	2.1	6
210	Interface characterization of magnetic tunnel junctions by using tunneling spectroscopy. Journal of Applied Physics, 2003, 93, 7023-7025.	2.5	6
211	Nanofabrication of magnetic tunnel junctions by using electron beam lithography. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1947-1948.	2.3	6
212	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
213	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
214	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
215	Spin-torque diode spectrum of a spin valve with a synthetic antiferromagnetic reference layer. Japanese Journal of Applied Physics, 2014, 53, 123001.	1.5	6
216	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

#	ARTICLE	IF	CITATIONS
217	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
218	Large amplitude oscillation of magnetization in spin-torque oscillator stabilized by field-like torque. Journal of Applied Physics, 2015, 117, 17C504.	2.5	6
219	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
220	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. Science Advances, 2020, 6, eabc2618.	10.3	6
221	Temperature dependence of higher-order magnetic anisotropy constants and voltage-controlled magnetic anisotropy effect in a Cr/Fe/MgO junction. Japanese Journal of Applied Physics, 2020, 59, 010901.	1.5	6
222	Spin-torque dynamics for noise reduction in vortex-based sensors. Applied Physics Letters, 2021, 118, .	3.3	6
223	Local Transport Properties and Magnetoresistive Effects of Ferromagnetic Tunneling Junctions.. Journal of the Magnetism Society of Japan, 2000, 24, 611-614.	0.4	6
224	Composition Dependence of the Magnetoresistance for Ni-Co/Cu and Co-Fe/Cu Multilayer Films. IEEE Transaction Journal on Magnetism in Japan, 1994, 9, 291-297.	0.1	5
225	Measurement of Magnetization Precession for NM/Ni80Fe20/NM (NM = Cu and Pt) Using Time-Resolved Kerr Effect. Japanese Journal of Applied Physics, 2004, 43, L787-L789.	1.5	5
226	Twist in the bias dependence of spin torques in magnetic tunnel junctions. Physical Review B, 2016, 93, .	3.2	5
227	Low Gilbert damping in epitaxial thin films of the nodal-line semimetal $D_{0,3}Ga$ . Physical Review B, 2021, 103, .	3.2	5
228	Control of the stochastic response of magnetization dynamics in spin-torque oscillator through radio-frequency magnetic fields. Scientific Reports, 2021, 11, 16285.	3.3	5
229	Magnetoresistance of (Co, Fe)-O and (Co, Fe)75(Al, Si)25-O Thin Films Evaporated in an Oxygen Atmosphere. Journal of the Magnetism Society of Japan, 1997, 21, 457-460.	0.4	5
230	Spin-Dependent Local Transport Properties in Ferromagnetic Tunnel Junction.. Journal of the Magnetism Society of Japan, 2001, 25, 759-762.	0.4	5
231	Large voltage-induced coercivity change in Pt/Co/CoO/amorphous TiOx structure and heavy metal insertion effect. Scientific Reports, 2021, 11, 21448.	3.3	5
232	Local transport properties of ferromagnetic tunnel junctions. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 924-925.	2.3	4
233	Nanofabrication of magnetic tunnel junctions by using side-edge thin film deposition. Science and Technology of Advanced Materials, 2003, 4, 347-352.	6.1	4
234	Spin-Dependent Inelastic Electron Tunneling Spectroscopy of Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2004, 43, 7472-7476.	1.5	4

#	ARTICLE	IF	CITATIONS
235	Fabrication of ferromagnetic single-electron tunneling devices by utilizing metallic nanowire as hard mask stencil. Journal of Applied Physics, 2005, 97, 10C909.	2.5	4
236	The effect of annealing on the junction profile of CoFeB/MgO tunnel junctions. Journal of Applied Physics, 2010, 108, 063922.	2.5	4
237	Spin-RAM for Normally-Off Computer. , 2011, , .		4
238	Growth and magnetic properties of ultrathin Ni <sub>1+x</sub> Fe <sub>2</sub> O <sub>4</sub> films for spin filter junctions. Thin Solid Films, 2011, 519, 8239-8242.	1.8	4
239	Quasi-omnidirectional electrical spectrometer for studying spin dynamics in magnetic tunnel junctions. Review of Scientific Instruments, 2012, 83, 024710.	1.3	4
240	Spin dice (physical random number generator using spin torque switching) and its thermal response. , 2015, , .		4
241	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. Journal of Applied Physics, 2017, 122, .	2.5	4
242	Influence of flicker noise and nonlinearity on the frequency spectrum of spin torque nano-oscillators. Scientific Reports, 2020, 10, 13116.	3.3	4
243	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
244	Reservoir Computing Leveraging the Transient Non-linear Dynamics of Spin-Torque Nano-Oscillators. Natural Computing Series, 2021, , 307-329.	2.2	4
245	Direct Imaging of Local Spin Orientation within Artificial Nanomagnets. Applied Physics Express, 2010, 3, 063001.	2.4	4
246	Reduction of Resistance and Annealing Effect in Ferromagnetic Tunnel Junctions.. Journal of the Magnetics Society of Japan, 2000, 24, 591-594.	0.4	4
247	Title is missing!. Synthesiology, 2009, 2, 211-222.	0.2	4
248	Chaos in spin-torque oscillator with feedback circuit. Physical Review Research, 2021, 3, .	3.6	4
249	Statistical Variance in Switching Probability of Spin-Torque Switching in MgO-MTJ. IEEE Transactions on Magnetics, 2012, 48, 4344-4346.	2.1	3
250	Nonlinear thermal effect on sub-gigahertz ferromagnetic resonance in magnetic tunnel junction. Applied Physics Letters, 2013, 103, .	3.3	3
251	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
252	Accurate De-Embedding and Measurement of Spin-Torque Oscillators. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	3

#	ARTICLE	IF	CITATIONS
253	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	3.2	3
254	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. AIP Advances, 2018, 8, .	1.3	3
255	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. AIP Advances, 2018, 8, .	1.3	3
256	Voltage-induced coercivity change in Co film grown on Cr <sub>2</sub> O <sub>3</sub> barrier. Japanese Journal of Applied Physics, 2019, 58, 100911.	1.5	3
257	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. Japanese Journal of Applied Physics, 2006, 45, 3842-3845.	1.5	3
258	Thickness and Oxidation Time Dependence of Tunnel Magnetoresistance in Ni-Fe/Co/Al-O/Co Junctions.. Journal of the Magnetism Society of Japan, 2000, 24, 595-598.	0.4	3
259	Analysis method of a spin-torque oscillator using dc resistance change during injection locking to an external microwave magnetic field. Applied Physics Letters, 2021, 119, .	3.3	3
260	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
261	Magnetoresistance of Fe/Cr Multilayer Films. IEEE Translation Journal on Magnetism in Japan, 1993, 8, 505-509.	0.1	2
262	Enhancement of tunnel magnetoresistance in ferromagnet/granular/ferromagnet junction related to the Coulomb blockade effect. Journal of Applied Physics, 2000, 87, 5212-5214.	2.5	2
263	Enhancement of Thermal Stability in Ferromagnetic Tunnel Junctions Prepared by the Radical Oxidation Method. Journal of the Magnetism Society of Japan, 2002, 26, 839-842.	0.4	2
264	Magnetic tunnel junctions with doubly-plasma oxidized AlOx insulation layer. Microelectronics Journal, 2003, 34, 805-808.	2.0	2
265	Characterization of thermally annealed tunnel junctions with preoxidized CoFe pinned electrode. Journal of Applied Physics, 2003, 94, 7778.	2.5	2
266	A Simple Fabrication Process using Focused Ion Beam for Deep Submicron Magnetic Tunnel Junctions. Japanese Journal of Applied Physics, 2004, 43, 7489-7490.	1.5	2
267	Time-resolved magnetization precession and reversal dynamics investigated using tunneling current and Kerr effect. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 293-294.	2.3	2
268	Lift-off process for deep-submicron-size junctions using supercritical. Journal of Magnetism and Magnetic Materials, 2007, 310, e687-e689.	2.3	2
269	Thermal stability of spin-transfer switching in CPP-GMR devices. Journal of Magnetism and Magnetic Materials, 2007, 310, 2026-2028.	2.3	2
270	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

#	ARTICLE	IF	CITATIONS
271	Role of Magnetic Field in Self-Oscillation of Nanomagnet Excited by Spin Torque. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
272	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
273	Development of "spin dice" A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
274	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. AIP Advances, 2021, 11, .	1.3	2
275	Low frequency 1/f noise in deep submicrometer-sized magnetic tunnel junctions. Journal of Applied Physics, 2021, 129, .	2.5	2
276	Analysis of the Disturbing Influence of Stray Fields in Very Small MRAM Cells by Computer Simulation. Lecture Notes in Physics, 2002, , 75-90.	0.7	2
277	Effect of particle size on the magnetization process in lithographic arrays of Nd <sub>2</sub> Fe <sub>14</sub> B. Journal of Applied Physics, 2000, 87, 6325-6327.	2.5	2
278	Tunnel Magnetoresistance Effect for Ni <sub>80</sub> Fe <sub>20</sub> /Co/N(N=Ta,Cu,Al)/Al-Oxide/Co Junctions.. Journal of the Magnetics Society of Japan, 2000, 24, 599-602.	0.4	2
279	Creating non-volatile electronics by spintronics technology. Synthesiology, 2009, 2, 194-205.	0.2	2
280	Magnetoresistance of Fe/Cr Multilayer Films. Journal of the Magnetics Society of Japan, 1992, 16, 309-312.	0.4	1
281	In-Situ Observation of the Electrical Resistivity of Al Thin Films Grown by dc Sputtering and Electron Beam Evaporation. Journal of the Magnetics Society of Japan, 1996, 20, 337-340.	0.4	1
282	Ferromagnetic tunnel junctions with high thermal stability. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1507-E1509.	2.3	1
283	Generation of highly stable 5 GHz microwave from a spin torque oscillator by phase locked loop referenced to a 80 MHz clock. , 2015, , .		1
284	Voltage-Controlled Magnetic Anisotropy in an Ultrathin Fe Layer Sandwiched Between Cr and MgO Layers. , 2016, , .		1
285	Microwave detection based on magnetoresistance effect in spintronic devices. , 2016, , .		1
286	Brain-Inspired Computing with Spintronics Devices. , 2018, , .		1
287	Micromagnetic Simulations of Emission Power in Spin Torque Oscillator: Influence of Diameter and Interlayer Exchange Coupling. IEEE Transactions on Magnetics, 2018, 54, 1-5.	2.1	1
288	CoFeB/MgO/CoFeB magnetic tunnel junctions prepared by layer-by-layer growth of naturally oxidized MgO. Applied Physics Express, 2019, 12, 103003.	2.4	1

#	ARTICLE	IF	CITATIONS
289	Randomly generated node-state-update procedure for dipole-coupled magnetic reservoir computing with voltage control of the magnetism. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 094001.	2.8	1
290	Magneto-resistance and Dipole Shift of Ultrasmall Magnetic Tunnel Junctions Characterized by Conducting Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2002, 41, L434-L434.	1.5	1
291	Magnon Excitation at the Interface of Co/Al/Al-Oxide/Co Tunnel Junctions.. <i>Journal of the Magnetism Society of Japan</i> , 2000, 24, 615-618.	0.4	1
292	Recent Development of MRAM Technology. <i>Journal of Magnetism</i> , 2003, 8, 36-44.	0.4	1
293	Characterization of the Barrier Layer in $\text{Al}_{1-x}\text{Co}_x/\text{Al}_{1-x}\text{Co}_x/\text{Al-Oxide}/\text{Al}$ Tunnel Junctions. <i>Journal of the Magnetism Society of Japan</i> , 2000, 24, 603-606.	0	0
294	Tunnel spectra for Al/Al-oxide/Ni80Fe20 junctions under the superconducting transition temperature of Al films. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1515-E1516.	2.3	0
295	Peltier effect in sub-micron-sized metallic junctions. , 2006, , .		0
296	Application of spin-torque diode effect to the analysis of spin-transfer switching in MgO-based magnetic tunnel junctions. , 2006, , .		0
297	Giant tunneling magneto-resistance in MgO-based magnetic tunnel junctions and its industrial applications. , 2006, , .		0
298	Magnetization Reversal by Spin-Polarized Current in Magnetic Tunnel Junctions with MgO Barriers. <i>Advances in Science and Technology</i> , 2006, 45, 2633-2639.	0.2	0
299	Formation and Developments of Spintronics Research Field. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2008, 55, 109-115.	0.2	0
300	Spin-torque FMR and large rectification sensitivity in Fe-rich CoFeB-MgO magnetic tunnel junctions. , 2010, , .		0
301	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. <i>IEEE Transactions on Magnetism</i> , 2015, 51, 1-4.	2.1	0
302	Multi-bits memory cell using degenerated magnetic states in a synthetic antiferromagnetic reference layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 370-373.	2.3	0
303	Microwave Neural Processing and Broadcasting with Spintronic Nano-Oscillators. , 2018, , .		0
304	Low frequency noise in vortex spin torque nano-oscillators. , 2018, , .		0
305	Perpendicular Magnetic Anisotropy and its Voltage Control in MgO/CoFeB/MgO Junctions with Atomically Thin Ta Adhesion Layers. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
306	Spin-Transfer Switching Property in the CPP-GMR Devices with Co-Fe and Co-Fe-B Free Layers. <i>Journal of the Magnetism Society of Japan</i> , 2006, 30, 192-195.	0.4	0

#	ARTICLE	IF	CITATIONS
307	Influence of Cu-Ni thickness on Peltier effect in submicron-sized Cu-Ni/Ru junctions. Journal of the Magnetism Society of Japan, 2011, 35, 264-267.	0.9	0
308	FMR Study on 80Ni-Fe/Cu/Co Trilayer Films.. Journal of the Magnetism Society of Japan, 1995, 19, 389-392.	0.4	0
309	10.1063/1.5070101.2. , 2019, , .		0
310	Development of Three-Dimensional Integration Technology for Magnetic Random Access Memories. Journal of Japan Institute of Electronics Packaging, 2019, 22, 495-500.	0.1	0
311	Integrated Reservoir Computing Module Using Magnetic Tunnel Junction. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 674-678.	0.0	0
312	Analysis of a Spin-Torque Oscillator Using Injection Locking to an External Microwave Field. , 2021, , .		0