Shinji Yuasa

List of Publications by Year
in descending order

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395 papers	19,148 citations	20817 60 h-index	13771 129 g-index
400 all docs	400 docs citations	400 times ranked	8543 citing authors

#	Article	IF	Citations
1	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
2	Binding events through the mutual synchronization of spintronic nano-neurons. Nature Communications, 2022, 13, 883.	12.8	18
3	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
4	Improvement in perpendicular magnetic anisotropy and its voltage control efficiency in CoFeB/MgO tunnel junctions with Ta/Mo layered adhesion structures. Journal of Applied Physics, 2022, 131, 213901.	2.5	1
5	Developments in voltage-controlled subnanosecond magnetization switching. Journal of Magnetism and Magnetic Materials, 2022, 560, 169637.	2.3	15
6	Perpendicular magnetic anisotropy and its electrical control in FeNiB ultrathin films. AIP Advances, 2021, 11, .	1.3	2
7	Reservoir Computing Leveraging the Transient Non-linear Dynamics of Spin-Torque Nano-Oscillators. Natural Computing Series, 2021, , 307-329.	2.2	4
8	Spinâ€“torque dynamics for noise reduction in vortex-based sensors. Applied Physics Letters, 2021, 118, .	3.3	6
9	Recent progress in random number generator using voltage pulse-induced switching of nano-magnet: A perspective. APL Materials, 2021, 9, .	5.1	9
10	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
11	Perpendicular magnetic anisotropy and its voltage control in MgO/CoFeB/MgO junctions with atomically thin Ta adhesion layers. Acta Materialia, 2021, 216, 117097.	7.9	19
12	Giant charge-to-spin conversion in ferromagnet via spin-orbit coupling. Nature Communications, 2021, 12, 6254.	12.8	20
13	Superimposed contributions to two-terminal and nonlocal spin signals in lateral spin-transport devices. Physical Review B, 2021, 104, .	3.2	3
14	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
15	Chaos in spin-torque oscillator with feedback circuit. Physical Review Research, 2021, 3, .	3.6	4
16	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. Nano Letters, 2020, 20, 6012-6017.	9.1	14
17	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. Science Advances, 2020, 6, eabc2618.	10.3	6
18	Influence of flicker noise and nonlinearity on the frequency spectrum of spin torque nano-oscillators. Scientific Reports, 2020, 10, 13116.	3.3	4

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19	Spin-orbit torque generated from perpendicularly magnetized Co/Ni multilayers. Physical Review B, 2020, 101, .	3.2	16
20	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
21	Analysis of surface acoustic wave induced spin resonance of a spin accumulation. Physical Review B, 2020, 101, .	3.2	1
22	Fully epitaxial giant magnetoresistive devices with half-metallic Heusler alloy fabricated on poly-crystalline electrode using three-dimensional integration technology. Acta Materialia, 2020, 200, 1038-1045.	7.9	11
23	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	3.8	18
24	The 64th Annual Conference on Magnetism and Magnetic Materials. AIP Advances, 2020, 10, .	1.3	1
25	Voltage-controlled magnetic anisotropy in an ultrathin Ir-doped Fe layer with a CoFe termination layer. APL Materials, 2020, 8, .	5.1	40
26	Role of non-linear data processing on speech recognition task in the framework of reservoir computing. Scientific Reports, 2020, 10, 328.	3.3	48
27	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
28	Large Spin-Orbit-Torque Efficiency Generated by Spin Hall Effect in Paramagnetic Co - Ni - B Alloys. Physical Review Applied, 2020, 14, .	3.8	13
29	Structural and magneto-transport properties of lattice-mismatched epitaxial Fe/SrO/MgO/Fe magnetic tunnel junctions. Japanese Journal of Applied Physics, 2020, 59, 103001.	1.5	0
30	High frequency voltage-induced ferromagnetic resonance in magnetic tunnel junctions. Applied Physics Letters, 2019, 115, 072401.	3.3	1
31	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
32	Tunnel magnetoresistance angular and bias dependence enabling tuneable wireless communication. Scientific Reports, 2019, 9, 9541.	3.3	7
33	Tunnel spin polarization of Fe/MgO/Si contacts reaching 90% with increasing MgO thickness. Physical Review B, 2019, 99, .	3.2	13
34	Fully epitaxial magnetic tunnel junction on a silicon wafer. Applied Physics Letters, 2019, 115, .	3.3	12
35	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
36	High-speed write error rate evaluation of a voltage-torque magnetic random access memory cell. Japanese Journal of Applied Physics, 2019, 58, 060905.	1.5	1

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37	Voltage-induced coercivity change in Co film grown on Cr₂O₃ barrier. Japanese Journal of Applied Physics, 2019, 58, 100911.	1.5	3
38	Temporal Pattern Recognition with Delayed-Feedback Spin-Torque Nano-Oscillators. Physical Review Applied, 2019, 12, .	3.8	45
39	Surface smoothing process for high-performance MgO-based magnetic tunnel junctions. Applied Physics Express, 2019, 12, 023002.	2.4	15
40	Low offset frequency <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>f</mml:mi> flicker noise in spin-torque vortex oscillators. Physical Review B, 2019, 99, .	3.2	9
41	Hanle spin precession in a two-terminal lateral spin valve. Applied Physics Letters, 2019, 114, 242401.	3.3	10
42	Tunneling Magnetoresistance and Spin-Dependent Diode Performance in Fully Epitaxial Magnetic Tunnel Junctions With a Rocksalt <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>Zn</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>Mg</mml:mi><mml:mi mathvariant="normal">O</mml:mi></mml:mrow></mml:math> Bilayer Tunnel Barrier. Physical Review Applied, 2019, 11, .	3.8	9
43	Mutual Synchronization of Spin-Torque Nano-Oscillators Via Oersted Magnetic Fields Created by Waveguides. Physical Review Applied, 2019, 11, .	3.8	11
44	Microscopic origin of large perpendicular magnetic anisotropy in an FeIr/MgO system. Physical Review B, 2019, 99, .	3.2	4
45	Recent Progress in the Voltage-Controlled Magnetic Anisotropy Effect and the Challenges Faced in Developing Voltage-Torque MRAM. Micromachines, 2019, 10, 327.	2.9	96
46	Physical reservoir computing based on spin torque oscillator with forced synchronization. Applied Physics Letters, 2019, 114, .	3.3	106
47	Quantification of Spin Drift in Devices with a Heavily Doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Si</mml:mi></mml:math> Channel. Physical Review Applied, 2019, 11, .	3.8	12
48	Development of â€œspin diceâ€Ââ€” A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
49	Microwave magnetic field modulation of spin torque oscillator based on perpendicular magnetic tunnel junctions. Scientific Reports, 2019, 9, 19091.	3.3	4
50	Proximity exchange coupling in a Fe/MgO/Si tunnel contact detected by the inverted Hanle effect. Physical Review B, 2019, 100, .	3.2	5
51	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. Nature Nanotechnology, 2019, 14, 40-43.	31.5	26
52	Perpendicular magnetic anisotropy and its electric-field-induced change at metal-dielectric interfaces. Journal Physics D: Applied Physics, 2019, 52, 063001.	2.8	47
53	Brownian motion of skyrmion bubbles and its control by voltage applications. Applied Physics Letters, 2019, 114, .	3.3	81
54	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by aÂControlled Voltage Pulse. Physical Review Applied, 2019, 11, .	3.8	32

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55	Reservoir computing with the frequency, phase, and amplitude of spin-torque nano-oscillators. Applied Physics Letters, 2019, 114, .	3.3	81
56	Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001.	2.8	36
57	10.1063/1.5070101.2. , 2019, , .		0
58	Tunnel Magnetoresistance Effect. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 595-600.	0.0	0
59	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
60	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
61	Neural-like computing with populations of superparamagnetic basis functions. Nature Communications, 2018, 9, 1533.	12.8	139
62	Giant magnetoresistance in perpendicularly magnetized synthetic antiferromagnetic coupling with Ir spacer. AIP Advances, 2018, 8, .	1.3	3
63	Spin-transfer torque induced by the spin anomalous Hall effect. Nature Electronics, 2018, 1, 120-123.	26.0	108
64	Voltage-Induced Precessional Switching at Zero-Bias Magnetic Field in a Conically Magnetized Free Layer. Physical Review Applied, 2018, 9, .	3.8	21
65	Effect of external magnetic field on locking range of spintronic feedback nano oscillator. AIP Advances, 2018, 8, .	1.3	3
66	Vector network analyzer ferromagnetic resonance spectrometer with field differential detection. Review of Scientific Instruments, 2018, 89, 053901.	1.3	16
67	Fabrication of magnetic tunnel junctions with a single-crystalline LiF tunnel barrier. Japanese Journal of Applied Physics, 2018, 57, 04FN04.	1.5	6
68	Reduction in the write error rate of voltage-induced dynamic magnetization switching using the reverse bias method. Japanese Journal of Applied Physics, 2018, 57, 040311.	1.5	18
69	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
70	Microwave Neural Processing and Broadcasting with Spintronic Nano-Oscillators. , 2018, , .		0
71	Fabrication technology of low-propagation-loss plasmonic waveguide containing a ferromagnetic metal.. , 2018, , .		2
72	Deterministic Magnetization Switching by Voltage Control of Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction under an In-Plane Magnetic Field. Physical Review Applied, 2018, 10, .	3.8	6

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73	Study of voltage-controlled perpendicular magnetic anisotropy in Ta/ FeB/MgO and W/FeB/MgO nanowires by the Hall effect measurements.. , 2018, , .		0
74	Low frequency noise in vortex spin torque nano-oscillators. , 2018, , .		0
75	Voltage Controlled Magnetic Tunnel Junction Based 3Dcrosspoint Memory With Step Shaped Pulse for Reliable Write Operation. , 2018, , .		0
76	Nonlinear Electrical Spin Conversion in a Biased Ferromagnetic Tunnel Contact. Physical Review Applied, 2018, 10, .	3.8	21
77	Brain-Inspired Computing with Spintronics Devices. , 2018, , .		1
78	Evaluation of memory capacity of spin torque oscillator for recurrent neural networks. Japanese Journal of Applied Physics, 2018, 57, 120307.	1.5	35
79	Vowel recognition with four coupled spin-torque nano-oscillators. Nature, 2018, 563, 230-234.	27.8	356
80	Scaling up electrically synchronized spin torque oscillator networks. Scientific Reports, 2018, 8, 13475.	3.3	49
81	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
82	Accurate calculation and shaping of the voltage pulse waveform applied to a voltage-controlled magnetic random access memory cell. Japanese Journal of Applied Physics, 2018, 57, 073002.	1.5	9
83	Self-Injection Locking of a Spin Torque Nano-Oscillator to Magnetic Field Feedback. Physical Review Applied, 2018, 10, .	3.8	11
84	Effect of Electric Field on the Exchange-Stiffness Constant in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Co</mml:mi><mml:mn>12</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi><mml:mathvariant="normal">B</mml:mi></mml:mrow><mml:mn>16</mml:mn></mml:msub></mml:math> Disk-Shaped Nanomagnet 65 nm in Diameter. Physical Review Applied, 2018, 10, .	3.8	1
85	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. Physical Review Applied, 2018, 10, .	3.8	29
86	Materials for spin-transfer-torque magnetoresistive random-access memory. MRS Bulletin, 2018, 43, 352-357.	3.5	49
87	Epitaxial growth of MgO/Ga₂O₃ heterostructure and its band alignment studied by X-ray photoemission spectroscopy. Japanese Journal of Applied Physics, 2018, 57, 070304.	1.5	9
88	Very strong antiferromagnetic interlayer exchange coupling with iridium spacer layer for perpendicular magnetic tunnel junctions. Applied Physics Letters, 2017, 110, .	3.3	65
89	Three-dimensional integration technology of magnetic tunnel junctions for magnetoresistive random access memory application. Applied Physics Express, 2017, 10, 063002.	2.4	10
90	Extended X-ray absorption fine structure analysis of voltage-induced effects in the interfacial atomic structure of Fe/Pt/MgO. Applied Physics Express, 2017, 10, 063006.	2.4	2

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91	Mutual synchronization of spin torque nano-oscillators through a long-range and tunable electrical coupling scheme. Nature Communications, 2017, 8, 15825.	12.8	85
92	Voltage-controlled magnetic tunnel junction based MRAM for replacing high density DRAM circuits corresponding to 2X nm generation. , 2017, , .		3
93	Investigation on the formation process of single-crystalline GaO_xbarrier in Fe/GaO_x/MgO/Fe magnetic tunnel junctions. Journal Physics D: Applied Physics, 2017, 50, 435001.	2.8	9
94	Reduction in write error rate of voltage-driven dynamic magnetization switching by improving thermal stability factor. Applied Physics Letters, 2017, 111, .	3.3	60
95	Driven energy transfer between coupled modes in spin-torque oscillators. Physical Review B, 2017, 95, .	3.2	3
96	Enhancement of perpendicular magnetic anisotropy and its electric field-induced change through interface engineering in Cr/Fe/MgO. Scientific Reports, 2017, 7, 5993.	3.3	46
97	Neuromorphic computing with nanoscale spintronic oscillators. Nature, 2017, 547, 428-431.	27.8	893
98	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
99	Measurement of shot noise in magnetic tunnel junction and its utilization for accurate system calibration. Journal of Applied Physics, 2017, 122, .	2.5	4
100	Low-Energy Truly Random Number Generation with Superparamagnetic Tunnel Junctions for Unconventional Computing. Physical Review Applied, 2017, 8, .	3.8	106
101	Characterization of the magnetic moments of ultrathin Fe film in an external electric field via high-precision X-ray magnetic circular dichroism spectroscopy. Japanese Journal of Applied Physics, 2017, 56, 060304.	1.5	8
102	Efficiency of Spin-Transfer-Torque Switching and Thermal-Stability Factor in a Spin-Valve Nanopillar with First- and Second-Order Uniaxial Magnetic Anisotropies. Physical Review Applied, 2017, 7, .	3.8	11
103	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
104	Voltage controlled interfacial magnetism through platinum orbits. Nature Communications, 2017, 8, 15848.	12.8	128
105	Neuromorphic computing through time-multiplexing with a spin-torque nano-oscillator. , 2017, IEDM 2017, .		16
106	Integer, Fractional, and Sideband Injection Locking of a Spintronic Feedback Nano-Oscillator to a Microwave Signal. Physical Review Applied, 2017, 8, .	3.8	16
107	Giant Spin Accumulation in Silicon Nonlocal Spin-Transport Devices. Physical Review Applied, 2017, 8, .	3.8	47
108	Photonic integration of plasmonic Magneto-optical waveguide and Si nanowire waveguide. , 2017, , .		1

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109	Effect of MgO Underlying Layer on the Growth of GaOx Tunnel Barrier in Epitaxial Fe/GaOx/(MgO)/Fe Magnetic Tunnel Junction Structure. Sensors, 2017, 17, 2424.	3.8	5
110	Spin signals in Si non-local transport devices with giant spin accumulation. , 2017, , .		1
111	Systematic study of surface morphology, photoluminescence efficiency, and spin-detection sensitivity in (110)-oriented GaAs/AlGaAs quantum wells. Japanese Journal of Applied Physics, 2016, 55, 113001.	1.5	3
112	Voltage-Controlled Magnetic Anisotropy in an Ultrathin Fe Layer Sandwiched Between Cr and Mgo Layers. , 2016, , .		1
113	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
114	Self-Injection Locking of a Vortex Spin Torque Oscillator by Delayed Feedback. Scientific Reports, 2016, 6, 26849.	3.3	40
115	Coherent microwave generation by spintronic feedback oscillator. Scientific Reports, 2016, 6, 30747.	3.3	31
116	Temperature dependence of spin-orbit torques in W/CoFeB bilayers. Applied Physics Letters, 2016, 109, .	3.3	25
117	Microwave emission power exceeding 10â€‰Î¼W in spin torque vortex oscillator. Applied Physics Letters, 2016, 109, .	3.3	51
118	Spin-torque diode with tunable sensitivity and bandwidth by out-of-plane magnetic field. Applied Physics Letters, 2016, 108, 232407.	3.3	7
119	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
120	Extremely Coherent Microwave Emission from Spin Torque Oscillator Stabilized by Phase Locked Loop. Scientific Reports, 2016, 5, 18134.	3.3	51
121	Spin-wave eigenmodes in single disk-shaped FeB nanomagnet. Physical Review B, 2016, 94, .	3.2	9
122	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. Scientific Reports, 2016, 6, 31510.	3.3	186
123	Novel voltage controlled MRAM (VCM) with fast read/write circuits for ultra large last level cache. , 2016, , .		21
124	The effect of the MgO buffer layer thickness on magnetic anisotropy in MgO/Fe/Cr/MgO buffer/MgO(001). Journal of Applied Physics, 2016, 120, 085303.	2.5	8
125	Growth and magnetic properties of ultrathin epitaxial FeO films and Fe/FeO bilayers on MgO(001). Applied Physics Letters, 2016, 108, .	3.3	14
126	Analysis of phase noise in a spin torque oscillator stabilized by phase locked loop. Applied Physics Express, 2016, 9, 053005.	2.4	10

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127	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
128	Suppression of spin transport in ferromagnet/oxide/semiconductor junctions by magnetic impurities in the tunnel barrier. Applied Physics Express, 2016, 9, 103001.	2.4	0
129	High Magnetoresistance in Fully Epitaxial Magnetic Tunnel Junctions with a Semiconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>GaO</mml:mi></mml:mrow><mml:mrow><mml:mi>x</mml:mi></mml:mrow> Barrier. Physical Review Applied, 2016, 6, .	3.8	29
130	Spin-Torque Induced Oscillation of a Magnetoresistive Nanopillar with a Conically Magnetized Free Layer and an In-Plane Magnetized Reference Layer. Journal of the Physical Society of Japan, 2016, 85, 063802.	1.6	3
131	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
132	Twist in the bias dependence of spin torques in magnetic tunnel junctions. Physical Review B, 2016, 93, .	3.2	5
133	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
134	Controlling the phase locking of stochastic magnetic bits for ultra-low power computation. Scientific Reports, 2016, 6, 30535.	3.3	32
135	Microwave detection based on magnetoresistance effect in spintronic devices. , 2016, , .		1
136	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
137	Spin-torque resonant expulsion of the vortex core for an efficient radiofrequency detection scheme. Nature Nanotechnology, 2016, 11, 360-364.	31.5	75
138	Perpendicular magnetic tunnel junction with enhanced anisotropy obtained by utilizing an Ir/Co interface. Applied Physics Express, 2016, 9, 013003.	2.4	22
139	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
140	Relative strength of thermal and electrical spin currents in a ferromagnetic tunnel contact on a semiconductor. Physical Review B, 2015, 92, .	3.2	5
141	Nonlinear spin transport in a rectifying ferromagnet/semiconductor Schottky contact. Physical Review B, 2015, 92, .	3.2	5
142	Theoretical analysis of thermally activated spin-transfer-torque switching in a conically magnetized nanomagnet. Physical Review B, 2015, 92, .	3.2	14
143	Critical damping constant of a spin torque oscillator with a perpendicularly magnetized free layer and an in-plane magnetized reference layer. Physical Review B, 2015, 92, .	3.2	6
144	Understanding of Phase Noise Squeezing Under Fractional Synchronization of a Nonlinear Spin Transfer Vortex Oscillator. Physical Review Letters, 2015, 115, 017201.	7.8	50

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145	Publisher's Note: Energy dispersion of tunnel spin polarization extracted from thermal and electrical spin currents [Phys. Rev. B91, 155305 (2015)]. Physical Review B, 2015, 91, .	3.2	0
146	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
147	Underlayer material influence on electric-field controlled perpendicular magnetic anisotropy in CoFeB/MgO magnetic tunnel junctions. Physical Review B, 2015, 91, .	3.2	83
148	Energy dispersion of tunnel spin polarization extracted from thermal and electrical spin currents. Physical Review B, 2015, 91, .	3.2	6
149	Spin-transfer-torque switching in a spin-valve nanopillar with a conically magnetized free layer. Applied Physics Express, 2015, 8, 063007.	2.4	27
150	Energy dispersion of tunnel spin polarization extracted from thermal and electrical spin currents versus bias voltage. , 2015, , .		0
151	Spin dice (physical random number generator using spin torque switching) and its thermal response. , 2015, , .		4
152	Magnetic Stochastic Oscillators: Noise-Induced Synchronization to Underthreshold Excitation and Comprehensive Compact Model. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	18
153	Effect of Mn impurities on the 3-terminal Hanle signals in ferromagnet/oxide tunnel contacts on a semiconductor. , 2015, , .		0
154	Spin-torque-induced oscillation at zero bias field in a magnetoresistive nanopillar with a free layer with first- and second-order uniaxial anisotropy. Applied Physics Express, 2015, 8, 083005.	2.4	16
155	Growth of perpendicularly magnetized thin films on a polymer buffer and voltage-induced change of magnetic anisotropy at the MgO|CoFeB interface. AIP Advances, 2015, 5, 067132.	1.3	6
156	Perpendicular magnetic anisotropy of Ir/CoFeB/MgO trilayer system tuned by electric fields. Applied Physics Express, 2015, 8, 053003.	2.4	73
157	Fabrication of Ge-based light-emitting diodes with a ferromagnetic metal/insulator tunnel contact. Japanese Journal of Applied Physics, 2015, 54, 04DM02.	1.5	2
158	Enhancement of magneto-optical Kerr effect by surface plasmons in trilayer structure consisting of double-layer dielectrics and ferromagnetic metal. Optics Express, 2015, 23, 11537.	3.4	34
159	Long-distance propagation of a surface plasmon on the surface of a ferromagnetic metal. Optics Express, 2015, 23, 12834.	3.4	14
160	Perpendicular magnetic tunnel junctions with strong antiferromagnetic interlayer exchange coupling at first oscillation peak. Applied Physics Express, 2015, 8, 083003.	2.4	53
161	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
162	Three-Terminal Device for Realizing a Voltage-Driven Spin Transistor. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	0

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163	Growth condition dependence of photoluminescence polarization in (100) GaAs/AlGaAs quantum wells at room temperature. Journal of Applied Physics, 2015, 118, 083901.	2.5	2
164	Gigantic transverse x-ray magnetic circular dichroism in ultrathin Co in Au/Co/Au(001). Journal of Physics: Conference Series, 2014, 502, 012002.	0.4	4
165	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
166	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
167	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
168	High-output microwave detector using voltage-induced ferromagnetic resonance. Applied Physics Letters, 2014, 105, 192408.	3.3	23
169	Ultrahigh Sensitivity Ferromagnetic Resonance Measurement Based on Microwave Interferometer. IEEE Magnetics Letters, 2014, 5, 1-4.	1.1	19
170	Large spin accumulation voltages in epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>contacts	3.2	43
171	Leak current estimated from the shot noise in magnetic tunneling junctions. Applied Physics Letters, 2014, 105, 042405.	3.3	3
172	Controlling the chirality and polarity of vortices in magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	3.3	28
173	Large amplitude spin torque vortex oscillations at zero external field using a perpendicular spin polarizer. Applied Physics Letters, 2014, 105, .	3.3	35
174	Noise-Enhanced Synchronization of Stochastic Magnetic Oscillators. Physical Review Applied, 2014, 2, .	3.8	48
175	Nonlinear Behavior and Mode Coupling in Spin-Transfer Nano-Oscillators. Physical Review Applied, 2014, 2, .	3.8	28
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