Hiroshi Imamura

List of Publications by Year
in descending order

235	4,715	147801	118850
papers	citations	31 h-index	62 g-index

238	238	238	3354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Write Error Rate in Bias-Magnetic-Field-Free Voltage-Induced Switching in a Conically Magnetized Free Layer. Physical Review Applied, 2022, 17, .	3.8	4
2	Macrospin Analysis of Equal Probability of Voltage-Driven Magnetization Switching of Nano-Magnet for Random Number Generator. Journal of the Physical Society of Japan, 2022, 91, .	1.6	0
3	Precession dynamics of a small magnet with non-Markovian damping: Theoretical proposal for an experiment to determine the correlation time. Journal of Magnetism and Magnetic Materials, 2022, 553, 169209.	2.3	1
4	Role of magnetostriction on power losses in nanocrystalline soft magnets. NPG Asia Materials, 2022, 14, .	7.9	7
5	Developments in voltage-controlled subnanosecond magnetization switching. Journal of Magnetism and Magnetic Materials, 2022, 560, 169637.	2.3	15
6	The first and the second-order magnetic anisotropy in a Fe/MgO system under electric field: a first-principles study. Japanese Journal of Applied Physics, 2021, 60, 018003.	1.5	3
7	Quadratic magnetoelectric effect during field cooling in sputter grown <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:mrow></mml:math> films. Physical Review Materials, 2021, 5, .	2.4	0
8	Probability Distribution of the Write-Error Rate of Voltage-Controlled Magnetoresistive Random-Access Memories. Physical Review Applied, 2021, 16, .	3.8	3
9	Magnetic anisotropy of doped Cr2O3 antiferromagnetic films evaluated by utilizing parasitic magnetization. Journal of Applied Physics, 2020, 128, 023901.	2.5	8
10	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. Nano Letters, 2020, 20, 6012-6017.	9.1	14
11	Low-Power Switching of Magnetization Using Enhanced Magnetic Anisotropy with Application of a Short Voltage Pulse. Physical Review Applied, 2020, 14, .	3.8	5
12	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	3.8	18
13	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
14	Ambipolar device simulation based on the drift-diffusion model in ion-gated transition metal dichalcogenide transistors. Npj Computational Materials, 2020, 6, .	8.7	5
15	Estimation of Rectifying Performance for Terahertz Wave in Newly Designed Fe/ZnO/MgO/Fe Magnetic Tunnel Junction. Journal of the Magnetics Society of Japan, 2020, 44, 26-29.	0.9	0
16	Large-Angle Precession of Magnetization Maintained by a Microwave Voltage. Physical Review Applied, 2020, 14, .	3.8	2
17	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
18	Spinmotive force in the out-of-plane direction generated by spin wave excitations in an exchange-coupled bilayer element. Physical Review B, 2019, 100, .	3.2	7

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19	Enhancing 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
20	Chaos and Relaxation Oscillations in Spin-Torque Windmill Spiking Oscillators. Physical Review Applied, 2019, 11, .	3.8	19
21	Voltage-induced switching with long tolerance of voltage-pulse duration in a perpendicularly magnetized free layer. Applied Physics Express, 2019, 12, 053003.	2.4	10
22	Development of â€œspin diceâ€Ââ€” A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
23	Methods for reducing write error rate in voltage-induced switching having prolonged tolerance of voltage-pulse duration. AIP Advances, 2019, 9, .	1.3	6
24	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by aÂControlled Voltage Pulse. Physical Review Applied, 2019, 11, .	3.8	32
25	First-principles prediction of ultralow resistance-area product and high magnetoresistance ratio in magnetic tunnel junction with a rock-salt type ZnO barrier. Japanese Journal of Applied Physics, 2019, 58, 010910.	1.5	8
26	Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001.	2.8	36
27	Voltage-Induced Precessional Switching at Zero-Bias Magnetic Field in a Conically Magnetized Free Layer. Physical Review Applied, 2018, 9, .	3.8	21
28	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
29	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
30	Spin-wave coupled spin torque oscillators for artificial neural network. Journal of Applied Physics, 2018, 124, 152131.	2.5	4
31	Critical thickness for spin wave-assisted switching of magnetization in a perpendicularly magnetized nanomagnet. Applied Physics Letters, 2018, 112, .	3.3	3
32	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. Applied Physics Letters, 2018, 112, .	3.3	12
33	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. Physical Review Applied, 2018, 10, .	3.8	29
34	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
35	Neural-Network Computation Using Spin-Wave-Coupled Spin-Torque Oscillators. Physical Review Applied, 2018, 10, .	3.8	19
36	Enhancement of magnetoelectric operating temperature in compressed Cr2O3 under hydrostatic pressure. Applied Physics Letters, 2017, 110, .	3.3	19

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37	Resonant magnetization switching conditions of an exchange-coupled bilayer under spin wave excitation. Applied Physics Letters, 2017, 110, .	3.3	8
38	Electric field dependence of the giant magnetic anisotropy of Ru monolayer on MgO(001) substrate. AIP Advances, 2017, 7, .	1.3	1
39	Narrowing of antiferromagnetic domain wall in corundum-type Cr₂O₃ by lattice strain. Applied Physics Express, 2017, 10, 013002.	2.4	19
40	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
41	Stochastic Phase Synchronization of Perpendicularly Magnetized Spin-Torque Oscillators With the Second-Order Uniaxial Anisotropy. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	7
42	Large perpendicular exchange bias and high blocking temperature in Al-doped Cr₂O₃/Co thin film systems. Applied Physics Express, 2017, 10, 073003.	2.4	10
43	Zero-Bias-Field Spin Torque Induced Oscillation of a Vortex Core in a Magnetic Junction Nano-Pillar with High Magnetoresistance Ratio. Journal of the Physical Society of Japan, 2017, 86, 064805.	1.6	0
44	Stability Analysis of Microwave-Assisted Magnetization Reversal in Exchange Coupled Nano Magnets. Journal of the Physical Society of Japan, 2017, 86, 065001.	1.6	0
45	Critical current density of a spin-torque oscillator with an in-plane magnetized free layer and an out-of-plane magnetized polarizer. AIP Advances, 2016, 6, .	1.3	6
46	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
47	Critical damping constant of microwave-assisted magnetization switching. Applied Physics Express, 2016, 9, 023001.	2.4	3
48	Vortex-dynamics-mediated low-field magnetization switching in an exchange-coupled system. Physical Review B, 2016, 94, .	3.2	10
49	Theoretical study of microwave-assisted magnetization switching in exchange coupled nano magnets. Applied Physics Letters, 2016, 109, .	3.3	7
50	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
51	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
52	Search for the ground-state electronic configurations of correlated organometallic metallocenes from constraint density functional theory. Physical Review B, 2016, 94, .	3.2	11
53	Phonon-Induced Electronâ€“Hole Excitation and ac Conductance in Molecular Junction. Journal of the Physical Society of Japan, 2016, 85, 043703.	1.6	4
54	Analytical expression for critical frequency of microwave assisted magnetization switching. Japanese Journal of Applied Physics, 2016, 55, 028002.	1.5	13

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55	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
56	Theoretical analysis of thermally activated spin-transfer-torque switching in a conically magnetized nanomagnet. Physical Review B, 2015, 92, .	3.2	14
57	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
58	Spin-transfer-torque switching in a spin-valve nanopillar with a conically magnetized free layer. Applied Physics Express, 2015, 8, 063007.	2.4	27
59	Control of domain wall thickness by spatial modulation of uniaxial anisotropy and exchange stiffness parameters. Japanese Journal of Applied Physics, 2015, 54, 030307.	1.5	3
60	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
61	Large amplitude oscillation of magnetization in spin-torque oscillator stabilized by field-like torque. Journal of Applied Physics, 2015, 117, 17C504.	2.5	6
62	Current dependence of spin torque switching rate based on Fokker-Planck approach. Journal of Applied Physics, 2014, 115, 17C708.	2.5	5
63	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
64	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
65	Role of Magnetic Field in Self-Oscillation of Nanomagnet Excited by Spin Torque. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
66	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
67	Time-bin state transfer to electron spin coherence in solids. , 2014, , .		0
68	Effect of lattice deformation on exchange coupling constants in Cr2O3. Journal of Applied Physics, 2014, 115, 17D719.	2.5	13
69	High power all-metal spin torque oscillator using full Heusler Co2(Fe,Mn)Si. Applied Physics Letters, 2014, 105, .	3.3	31
70	Rotational motion of a magnetic vortex in a circular disk induced by injection of an electric current through an off-centered point contact. Physical Review B, 2014, 90, .	3.2	1
71	Enhancement of Spin Correlation in Cr₂O₃ Film Above NÃ©el Temperature Induced by Forming a Junction With Fe₂O₃ Layer: First-Principles and Monte-Carlo Study. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	11
72	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

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73	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
74	Highly sensitive nanoscale spin-torque diode. Nature Materials, 2014, 13, 50-56.	27.5	228
75	Theoretical Study of Spin-Torque Oscillator with Perpendicularly Magnetized Free Layer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	14
76	Spin dice: A scalable truly random number generator based on spintronics. Applied Physics Express, 2014, 7, 083001.	2.4	174
77	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
78	Self-oscillation in spin torque oscillator stabilized by field-like torque. Applied Physics Letters, 2014, 104, .	3.3	27
79	Macrospin simulation of high-frequency voltage-assisted magnetization reversal in a perpendicularly magnetized disk with voltage-induced magnetic anisotropy. Applied Physics Express, 2014, 7, 093005.	2.4	1
80	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
81	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002.	2.4	25
82	High-speed magnetic field detection using a spin valve with a perpendicularly magnetized free layer and an in-plane magnetized reference layer. Applied Physics Express, 2014, 7, 023007.	2.4	2
83	Dependence of spin torque diode voltage on applied field direction. Journal of Applied Physics, 2013, 114, .	2.5	10
84	Spin torque assisted magnetization switching in thermally activated region. Journal of the Korean Physical Society, 2013, 62, 1773-1777.	0.7	0
85	Future prospects of MRAM technologies. , 2013, , .		42
86	Strain-Induced NÃ©el Temperature Enhancement in Corundum-Type Cr₂O₃and Fe₂O₃. Applied Physics Express, 2013, 6, 113007.	2.4	29
87	Characteristic field angular dependence of magnetization switching assisted by spin wave excitation. Applied Physics Letters, 2013, 103, 122403.	3.3	9
88	Thermally activated switching rate of a nanomagnet in the presence of spin torque. Physical Review B, 2013, 88, .	3.2	20
89	Spin torque switching of an in-plane magnetized system in a thermally activated region. Physical Review B, 2013, 87, .	3.2	41
90	Spin wave-assisted reduction in switching field of highly coercive iron-platinum magnets. Nature Communications, 2013, 4, 1726.	12.8	65

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91	Current-Driven Vortexâ€“Antivortex Pair Rotation in a Magnetic Thin Film with Multiple Contacts. Journal of the Physical Society of Japan, 2013, 82, 084701.	1.6	0
92	Appearance of Flat Bands and Edge States in Boronâ€“Carbonâ€“Nitride Nanoribbons. Journal of the Physical Society of Japan, 2013, 82, 083710.	1.6	6
93	Linear Frequency Modulation by Weak Bipolar Magnetic Fields for a Vortex-Mode Oscillation in a Nanocontact Magnetoresistive Spin-Torque-Oscillator. Applied Physics Express, 2013, 6, 113001.	2.4	6
94	Current Dependence of Spin Torque Switching Barrier. Applied Physics Express, 2013, 6, 103005.	2.4	8
95	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
96	Critical Field of Spin Torque Oscillator with Perpendicularly Magnetized Free Layer. Applied Physics Express, 2013, 6, 123003.	2.4	48
97	Creation of entangled spin qubits between distant quantum dots. Physical Review B, 2013, 88, .	3.2	8
98	Maximizing Spin Torque Diode Voltage by Optimizing Magnetization Alignment. Applied Physics Express, 2013, 6, 053002.	2.4	7
99	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
100	Magnon Turbulence in Ferromagnetic Nanocontact. Journal of the Physical Society of Japan, 2013, 82, 033801.	1.6	1
101	Boltzmann Transport Equation of Transverse Spin Current in Weak-Coupling Limit. Journal of the Physical Society of Japan, 2013, 82, 114601.	1.6	0
102	Penetration of a Magnetic Wall into Thin Ferromagnetic Electrodes of a Nano-Contact Spin Valve. Journal of the Physical Society of Japan, 2013, 82, 074716.	1.6	0
103	Theoretical Study of Spin-torque Oscillator Coupled with Nano-magnet by Dipole-dipole Interaction. Journal of the Magnetics Society of Japan, 2013, 37, 218-221.	0.9	1
104	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
105	Theoretical study on dependence of thermal switching time of synthetic free layer on coupling field. Journal of Applied Physics, 2012, 111, 07C901.	2.5	7
106	Theoretical study of point-contact Andreev reflection spectroscopy for ferromagnetic-metal/multi-band superconductor junctions. Journal of Applied Physics, 2012, 111, 07C518.	2.5	1
107	Thermal stability of the geometrically constrained magnetic wall and its effect on a domain-wall spin valve. Journal of Applied Physics, 2012, 111, 083903.	2.5	3
108	Coherent transfer of time-bin photons to electron spins in a semiconductor. Physical Review A, 2012, 85, .	2.5	4

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109	Dependence of Spin Torque Switching Probability on Electric Current. Journal of Nanoscience and Nanotechnology, 2012, 12, 7520-7524.	0.9	6
110	Numerical Study on Spin Torque Switching in Thermally Activated Region. Applied Physics Express, 2012, 5, 063009.	2.4	19
111	Proposal of an Experimental Scheme for Determination of Penetration Depth of Transverse Spin Current by a Nonlocal Spin Valve. Journal of the Physical Society of Japan, 2012, 81, 124704.	1.6	1
112	ENHANCEMENT OF GRAPHENE BINDING ENERGY BY Ti 1ML INTERCALATION BETWEEN GRAPHENE AND METAL SURFACES. International Journal of Modern Physics Conference Series, 2012, 11, 139-144.	0.7	1
113	Theory of Spin Torque Assisted Thermal Switching of Single Free Layer. IEEE Transactions on Magnetics, 2012, 48, 3803-3806.	2.1	1
114	Edge States and Stacking Effects in Nanographene Systems. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2723-2725.	1.8	1
115	Theoretical Study of Point-Contact Andreev Reflection Spectroscopy for Ferromagnetic Metal/Insulator/D-Wave Superconductor Junctions. IEEE Transactions on Magnetics, 2012, 48, 2827-2830.	2.1	0
116	Study on High-Frequency 3â€“D Magnetization Precession Modes of Circular Magnetic Nano-Dots Using Coplanar Wave Guide Vector Network Analyzer Ferromagnetic Resonance. IEEE Transactions on Magnetics, 2012, 48, 1782-1788.	2.1	6
117	AC-Driven Breathing Mode of Confined Magnetic Domain Wall. Journal of the Physical Society of Japan, 2012, 81, 043801.	1.6	4
118	Thermal switching rate of a ferromagnetic material with uniaxial anisotropy. Physical Review B, 2012, 85, .	3.2	21
119	Spin-wave excitations induced by spin current through a magnetic point contact with a confined domain wall. Applied Physics Letters, 2012, 101, 092405.	3.3	7
120	Coherent Transfer of Time-bin Photons to Electron Spins in a Semiconductor. , 2012, , .		0
121	ENHANCEMENT OF GRAPHENE BINDING ENERGY BY Ti 1ML INTERCALATION BETWEEN GRAPHENE AND METAL SURFACES. , 2012, , .		0
122	Thermally assisted spin transfer torque switching in synthetic free layers. Physical Review B, 2011, 83, .	3.2	51
123	Spin transfer torque in MTJs with synthetic ferrimagnetic layers by the Keldysh approach. Journal of Applied Physics, 2011, 109, .	2.5	6
124	Proposal of the spin-polarization measurement using noncontact Andreev reflection. Journal of Applied Physics, 2011, 109, .	2.5	1
125	Spin accumulation and mistracking effects on the magnetoresistance of a ferromagnetic nano-contact. Journal of Physics: Conference Series, 2011, 266, 012090.	0.4	6
126	Spin-transfer-induced microwave oscillations in spin valves with ferromagnetic nano-contacts in oxide spacer layer. Journal Physics D: Applied Physics, 2011, 44, 092001.	2.8	12

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127	Critical current density of domain wall oscillation due to spin-transfer torque. Journal of Physics: Conference Series, 2011, 292, 012007.	0.4	1
128	Theoretical study of the spin polarization measurement using non-contact Andreev reflection. Journal of Physics: Conference Series, 2011, 266, 012102.	0.4	0
129	Angle dependence of the magnetoresistance of CCP-CPP-GMR system. Journal of Physics: Conference Series, 2011, 266, 012108.	0.4	2
130	Effect of the tipâ€“contact interaction on the MFM image of magnetic nanocontact. Journal of Applied Physics, 2011, 109, 07D356.	2.5	1
131	Numerical simulation of MFM image of a magnetic nano-contact. Thin Solid Films, 2011, 519, 8426-8428.	1.8	1
132	Spin Dynamics in Ferromagnetic Resonance for Nano-Sized Magnetic Dot Arrays: Metrology and Insight Into Magnetization Dynamics. IEEE Transactions on Magnetics, 2011, 47, 2387-2390.	2.1	13
133	First-principles study of Ti intercalation between graphene and Au surface. Applied Physics Letters, 2011, 98, 261905.	3.3	3
134	Enhancement of microwave oscillation under angled in-plane magnetic field in ferromagnetic nano-contact spin-valves. Applied Physics Letters, 2011, 99, 092507.	3.3	8
135	Effect of the number of layers on determination of spin asymmetries in current-perpendicular-to-plane giant magnetoresistance. Applied Physics Letters, 2011, 98, .	3.3	11
136	Spin coherent read, write, manipulation of electrons with light in solids. , 2011, , .		0
137	Minimization of the Switching Time of a Synthetic Free Layer in Thermally Assisted Spin Torque Switching. Applied Physics Express, 2011, 4, 103001.	2.4	7
138	The origin of dispersion of magnetoresistance of a domain wall spin valve. Journal of Physics: Conference Series, 2010, 200, 062023.	0.4	1
139	Current-induced instability of geometrically confined magnetic wall. Journal of Physics: Conference Series, 2010, 200, 042016.	0.4	1
140	Time evolution of spin accumulation and spin current in a magnetic domain wall. Journal of Physics: Conference Series, 2010, 200, 062034.	0.4	0
141	Fluctuation theorem in spintronics. Journal of Physics: Conference Series, 2010, 200, 052030.	0.4	8
142	Coherent spin preparation, manipulation and read-out with light and microwaves in a quantum well and dot. Journal of Physics: Conference Series, 2010, 245, 012001.	0.4	1
143	Thermal stability of geometrically confined domain wall structures. Journal of Physics: Conference Series, 2010, 200, 042022.	0.4	1
144	Conductance oscillation in ferromagnetic-metal/ nonmagnetic-metal/superconductor double junctions. Journal of Physics: Conference Series, 2010, 200, 062016.	0.4	0

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145	Scheme for Bell state measurement in a g-factor engineered double dot. Journal of Physics: Conference Series, 2010, 200, 112012.	0.4	0
146	Angular dependence of spin transfer torque on magnetic tunnel junctions with synthetic ferrimagnetic free layer. Journal of Physics: Conference Series, 2010, 200, 062008.	0.4	0
147	Optical measurement of electron spin coherence in a semiconductor quantum well. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 922-925.	2.7	0
148	Current-Induced Exchange Length and Geometrically Constrained Magnetic Wall. Journal of the Physical Society of Japan, 2010, 79, 033706.	1.6	3
149	Proposal of a full Bell state analyzer for spin qubits in a double quantum dot. Physical Review B, 2010, 81, .	3.2	7
150	Boltzmann theory of magnetoresistance due to a spin spiral. Physical Review B, 2010, 81, .	3.2	6
151	Measurement of Electron Spin States in a Semiconductor Quantum Well Using Tomographic Kerr Rotation. Japanese Journal of Applied Physics, 2010, 49, 04DJ09.	1.5	2
152	Microwave Generation on Geometrically Constrained Magnetic Wall: Effect of Twist Angle. Journal of the Physical Society of Japan, 2010, 79, 093801.	1.6	7
153	Current Induced Dynamical Phases on Geometrically Constrained Magnetic Wall. Journal of the Magnetics Society of Japan, 2010, 34, 323-328.	0.9	1
154	Electrical Measurement of a Two-Electron Spin State in a Double Quantum Dot. Physical Review Letters, 2009, 103, 046806.	7.8	6
155	Conductance oscillations due to geometrical resonance inFNSdouble junctions. Physical Review B, 2009, 79, .	3.2	6
156	Theory of spin accumulation and spin-transfer torque in a magnetic domain wall. Physical Review B, 2009, 79, .	3.2	21
157	Dependence of critical current of spin transfer torque-driven magnetization dynamics on free layer thickness. Journal of Applied Physics, 2009, 105, 07D119.	2.5	1
158	Simulation of current-induced microwave oscillation in geometrically confined domain wall. Journal of Applied Physics, 2009, 105, 07D525.	2.5	17
159	Current-perpendicular-to-plane magnetoresistance of a domain wall confined in a nano-oxide layer. Journal of Applied Physics, 2009, 105, 07D101.	2.5	11
160	Coherent spin state transfer from light to electrons in a semiconductor. , 2009, , .		1
161	Dipolar Field Effect on Microwave Oscillation in a Domain-Wall Spin Valve. IEEE Transactions on Magnetics, 2009, 45, 3422-3425.	2.1	3
162	Spin state tomography of optically injected electrons in a semiconductor. Nature, 2009, 457, 702-705.	27.8	87

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163	Spin transfer torque in magnetic tunnel junctions with synthetic ferrimagnetic layers. Journal of Applied Physics, 2009, 105, 07D120.	2.5	25
164	Current-Induced Microwave Excitation of a Domain Wall Pinned in a Magnetic Wire with Bi-Axial Anisotropy. Journal of the Physical Society of Japan, 2009, 78, 093801.	1.6	10
165	Magneto-optical Kerr effect tomography of an electron spin state in a semiconductor quantum dot. , 2009, , .		0
166	Spin State Transfer and Tomography in a Semiconductor. , 2009, , .		0
167	SPIN PUMPING IN FERROMAGNETIC MULTILAYERS. Modern Physics Letters B, 2008, 22, 2909-2929.	1.9	5
168	Giant spin Hall effect in perpendicularly spin-polarized FePt/Au devices. Nature Materials, 2008, 7, 125-129.	27.5	376
169	Critical current of spin-transfer-torque-driven magnetization dynamics in magnetic multilayers. Physical Review B, 2008, 78, .	3.2	30
170	Magnetic Structure of Domain Walls Confined in a Nano-Oxide Layer. IEEE Transactions on Magnetics, 2008, 44, 2616-2619.	2.1	8
171	Effective Resistance Mismatch and Magnetoresistance of a CPP-GMR System With Current-Confined-Paths. IEEE Transactions on Magnetics, 2008, 44, 2608-2611.	2.1	16
172	Penetration Depth of Transverse Spin Current in Ferromagnetic Metals. IEEE Transactions on Magnetics, 2008, 44, 2636-2639.	2.1	22
173	Coherent Transfer of Light Polarization to Electron Spins in a Semiconductor. Physical Review Letters, 2008, 100, 096602.	7.8	105
174	Nonequilibrium thermodynamic study of magnetization dynamics in the presence of spin-transfer torque. Physical Review B, 2008, 78, .	3.2	7
175	Optical spin state tomography using selection rules for photon-spin quantum state transfer. , 2008, , .		0
176	SIMULATION OF THE PHOTON-SPIN QUANTUM STATE TRANSFER PROCESS. , 2008, , .		0
177	Enhancement of the Gilbert damping constant due to spin pumping in noncollinear ferromagnet/nonmagnet/ferromagnet trilayer systems. Physical Review B, 2007, 76, .	3.2	35
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