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	Giant spin Hall effect in perpendicularly spin-polarized FePt/Au devices. Nature Materials, 2008, 7, 125-129.	27.5	376
2	Kondo Effect in Quantum Dots Coupled to Ferromagnetic Leads. Physical Review Letters, 2003, 91, 127203.	7.8	300
3	Highly sensitive nanoscale spin-torque diode. Nature Materials, 2014, 13, 50-56.	27.5	228
4	Spin Imbalance and Magnetoresistance in Ferromagnet/Superconductor/Ferromagnet Double Tunnel Junctions. Physical Review Letters, 1999, 82, 3911-3914.	7.8	177
5	Spin dice: A scalable truly random number generator based on spintronics. Applied Physics Express, 2014, 7, 083001.	2.4	174
6	Twisted exchange interaction between localized spins embedded in a one- or two-dimensional electron gas with Rashba spin-orbit coupling. Physical Review B, 2004, 69, .	3.2	170
7	Enhanced spin accumulation and novel magnetotransport in nanoparticles. Nature Materials, 2004, 4, 57-61.	27.5	160
8	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
9	Conductance Quantization and Magnetoresistance in Magnetic Point Contacts. Physical Review Letters, 2000, 84, 1003-1006.	7.8	116
10	Molecular aspects of electron correlation in quantum dots. Journal of Physics Condensed Matter, 2000, 12, R299-R334.	1.8	110
11	Coherent Transfer of Light Polarization to Electron Spins in a Semiconductor. Physical Review Letters, 2008, 100, 096602.	7.8	105
12	Enhanced tunnel magnetoresistance in granular nanobridges. Applied Physics Letters, 2001, 78, 515-517.	3.3	89
13	Spin state tomography of optically injected electrons in a semiconductor. Nature, 2009, 457, 702-705.	27.8	87
14	Spin-dependent Coulomb blockade in ferromagnet/normal-metal/ferromagnet double tunnel junctions. Physical Review B, 1999, 59, 6017-6020.	3.2	80
15	Nonequilibrium Kondo effect in a quantum dot coupled to ferromagnetic leads. Physical Review B, 2005, 71, .	3.2	69
16	Spin wave-assisted reduction in switching field of highly coercive iron-platinum magnets. Nature Communications, 2013, 4, 1726.	12.8	65
17	Andreev reflection in ferromagnet/superconductor/ferromagnet double junction systems. Physical Review B, 2003, 67, .	3.2	60
18	Spin transport and relaxation in superconductors. Physical Review B, 2002, 65, .	3.2	59

#	Article	IF	Citations
19	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
20	Magic numbers and optical-absorption spectrum in vertically coupled quantum dots in the fractional quantum Hall regime. Physical Review B, 1996, 53, 12613-12616.	3.2	53
21	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
22	Thermally assisted spin transfer torque switching in synthetic free layers. Physical Review B, 2011, 83, .	3.2	51
23	Vertically coupled double quantum dots in magnetic fields. Physical Review B, 1999, 59, 5817-5825.	3.2	49
24	Coulomb staircase in STM current through granular films. Physical Review B, 2000, 61, 46-49.	3.2	49
25	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
26	Critical Field of Spin Torque Oscillator with Perpendicularly Magnetized Free Layer. Applied Physics Express, 2013, 6, 123003.	2.4	48
27	Spin blockade in single and double quantum dots in magnetic fields:â€ƒA correlation effect. Physical Review B, 1998, 57, R4257-R4260.	3.2	44
28	Determination of Penetration Depth of Transverse Spin Current in Ferromagnetic Metals by Spin Pumping. Applied Physics Express, 0, 1, 031302.	2.4	42
29	Future prospects of MRAM technologies. , 2013, , .		42
30	Spin torque switching of an in-plane magnetized system in a thermally activated region. Physical Review B, 2013, 87, .	3.2	41
31	Improvement of write error rate in voltage-driven magnetization switching. Journal Physics D: Applied Physics, 2019, 52, 164001.	2.8	36
32	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
33	Write-Error Reduction of Voltage-Torque-Driven Magnetization Switching by aÂControlled Voltage Pulse. Physical Review Applied, 2019, 11, .	3.8	32
34	High power all-metal spin torque oscillator using full Heusler Co2(Fe,Mn)Si. Applied Physics Letters, 2014, 105, .	3.3	31
35	Critical current of spin-transfer-torque-driven magnetization dynamics in magnetic multilayers. Physical Review B, 2008, 78, .	3.2	30
36	Strain-Induced NÃ©el Temperature Enhancement in Corundum-Type Cr₂O₃and Fe₂O₃. Applied Physics Express, 2013, 6, 113007.	2.4	29

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37	Thermally Induced Precession-Orbit Transition of Magnetization in Voltage-Driven Magnetization Switching. Physical Review Applied, 2018, 10, .	3.8	29
38	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
39	Decoherence of localized spins interacting via RKKY interaction. Physical Review B, 2005, 72, .	3.2	27
40	Self-oscillation in spin torque oscillator stabilized by field-like torque. Applied Physics Letters, 2014, 104, .	3.3	27
41	Spin-transfer-torque switching in a spin-valve nanopillar with a conically magnetized free layer. Applied Physics Express, 2015, 8, 063007.	2.4	27
42	Spin injection and magnetoresistance in ferromagnetâ€“ superconductorâ€“ferromagnet tunnel junctions. Journal of Applied Physics, 2000, 87, 5227-5229.	2.5	26
43	Spin transfer torque in magnetic tunnel junctions with synthetic ferrimagnetic layers. Journal of Applied Physics, 2009, 105, 07D120.	2.5	25
44	Magnetization switching assisted by high-frequency-voltage-induced ferromagnetic resonance. Applied Physics Express, 2014, 7, 073002.	2.4	25
45	Conductance quantization and Andreev reflection in narrow ferromagnet/superconductor point contacts. Physical Review B, 2001, 65, .	3.2	24
46	Spin-relaxation and magnetoresistance in FM/SC/FM tunnel junctions. Journal of Magnetism and Magnetic Materials, 2002, 240, 100-102.	2.3	23
47	Penetration Depth of Transverse Spin Current in Ferromagnetic Metals. IEEE Transactions on Magnetics, 2008, 44, 2636-2639.	2.1	22
48	Indirect exchange interaction between two quantum dots in an Aharonov-Bohm ring. Physical Review B, 2004, 69, .	3.2	21
49	Theory of spin accumulation and spin-transfer torque in a magnetic domain wall. Physical Review B, 2009, 79, .	3.2	21
50	Thermal switching rate of a ferromagnetic material with uniaxial anisotropy. Physical Review B, 2012, 85, .	3.2	21
51	Voltage-Induced Precessional Switching at Zero-Bias Magnetic Field in a Conically Magnetized Free Layer. Physical Review Applied, 2018, 9, .	3.8	21
52	Thermally activated switching rate of a nanomagnet in the presence of spin torque. Physical Review B, 2013, 88, .	3.2	20
53	Numerical Study on Spin Torque Switching in Thermally Activated Region. Applied Physics Express, 2012, 5, 063009.	2.4	19
54	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

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55	Enhancement of magnetoelectric operating temperature in compressed Cr2O3 under hydrostatic pressure. Applied Physics Letters, 2017, 110, .	3.3	19
56	Narrowing of antiferromagnetic domain wall in corundum-type Cr₂O₃ by lattice strain. Applied Physics Express, 2017, 10, 013002.	2.4	19
57	Neural-Network Computation Using Spin-Wave-Coupled Spin-Torque Oscillators. Physical Review Applied, 2018, 10, .	3.8	19
58	Chaos and Relaxation Oscillations in Spin-Torque Windmill Spiking Oscillators. Physical Review Applied, 2019, 11, .	3.8	19
59	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
60	Voltage-Driven Magnetization Switching Using Inverse-Bias Schemes. Physical Review Applied, 2020, 13, .	3.8	18
61	Simulation of current-induced microwave oscillation in geometrically confined domain wall. Journal of Applied Physics, 2009, 105, 07D525.	2.5	17
62	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
63	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
64	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
65	Developments in voltage-controlled subnanosecond magnetization switching. Journal of Magnetism and Magnetic Materials, 2022, 560, 169637.	2.3	15
66	Theoretical Study of Spin-Torque Oscillator with Perpendicularly Magnetized Free Layer. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	14
67	Theoretical analysis of thermally activated spin-transfer-torque switching in a conically magnetized nanomagnet. Physical Review B, 2015, 92, .	3.2	14
68	Voltage-Driven Magnetization Switching Controlled by Microwave Electric Field Pumping. Nano Letters, 2020, 20, 6012-6017.	9.1	14
69	Symmetry of â€˜molecularâ€™ configurations of interacting electrons in a quantum dot in strong magnetic fields. Physica B: Condensed Matter, 1998, 249-251, 214-219.	2.7	13
70	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
71	Effect of lattice deformation on exchange coupling constants in Cr2O3. Journal of Applied Physics, 2014, 115, 17D719.	2.5	13
72	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

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73	Analytical expression for critical frequency of microwave assisted magnetization switching. Japanese Journal of Applied Physics, 2016, 55, 028002.	1.5	13
74	Noise of a single-electron transistor in the regime of large quantum fluctuations of island charge out of equilibrium. Physical Review B, 2003, 67, .	3.2	12
75	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
76	Diameter dependence of emission power in MgO-based nano-pillar spin-torque oscillators. Applied Physics Letters, 2016, 108, .	3.3	12
77	Spin torque diode effect of the magnetic tunnel junction with MnGa free layer. Applied Physics Letters, 2018, 112, .	3.3	12
78	Spin injection in ferromagnet/superconductor/ferromagnet tunnel junctions. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1515-1518.	1.2	11
79	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
80	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
81	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
82	Search for the ground-state electronic configurations of correlated organometallic metallocenes from constraint density functional theory. Physical Review B, 2016, 94, .	3.2	11
83	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
84	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
85	Dependence of spin torque diode voltage on applied field direction. Journal of Applied Physics, 2013, 114, .	2.5	10
86	Vortex-dynamics-mediated low-field magnetization switching in an exchange-coupled system. Physical Review B, 2016, 94, .	3.2	10
87	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
88	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
89	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
90	Spin injection into superconductors. Journal Physics D: Applied Physics, 2002, 35, 2452-2456.	2.8	9

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91	Polarization transfer from photon to electron spin in g factor engineered quantum wells. Applied Physics Letters, 2007, 90, 113511.	3.3	9
92	Characteristic field angular dependence of magnetization switching assisted by spin wave excitation. Applied Physics Letters, 2013, 103, 122403.	3.3	9
93	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
94	Joule heating generated by spin current through Josephson junctions. Journal of Applied Physics, 2001, 89, 7505-7507.	2.5	8
95	Parity effect and tunnel magnetoresistance of ferromagnet/superconductor/ferromagnet single-electron tunneling transistors. Physical Review B, 2002, 66, .	3.2	8
96	Charge fluctuation between even and odd states of a superconducting island. Physical Review B, 2002, 66, .	3.2	8
97	Magnetic Structure of Domain Walls Confined in a Nano-Oxide Layer. IEEE Transactions on Magnetics, 2008, 44, 2616-2619.	2.1	8
98	Fluctuation theorem in spintronics. Journal of Physics: Conference Series, 2010, 200, 052030.	0.4	8
99	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
100	Current Dependence of Spin Torque Switching Barrier. Applied Physics Express, 2013, 6, 103005.	2.4	8
101	Creation of entangled spin qubits between distant quantum dots. Physical Review B, 2013, 88, .	3.2	8
102	Resonant magnetization switching conditions of an exchange-coupled bilayer under spin wave excitation. Applied Physics Letters, 2017, 110, .	3.3	8
103	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
104	Magnetic anisotropy of doped Cr2O3 antiferromagnetic films evaluated by utilizing parasitic magnetization. Journal of Applied Physics, 2020, 128, 023901.	2.5	8
105	Effect of the quantum domain wall on conductance quantization and magnetoresistance in magnetic point contacts. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 107-113.	3.5	7
106	Andreev reflection in narrow ferromagnet/superconductor point contacts. Journal of Applied Physics, 2002, 91, 7032.	2.5	7
107	Nonequilibrium thermodynamic study of magnetization dynamics in the presence of spin-transfer torque. Physical Review B, 2008, 78, .	3.2	7
108	Proposal of a full Bell state analyzer for spin qubits in a double quantum dot. Physical Review B, 2010, 81, .	3.2	7

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109	Microwave Generation on Geometrically Constrained Magnetic Wall: Effect of Twist Angle. Journal of the Physical Society of Japan, 2010, 79, 093801.	1.6	7
110	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
111	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
112	Maximizing Spin Torque Diode Voltage by Optimizing Magnetization Alignment. Applied Physics Express, 2013, 6, 053002.	2.4	7
113	Theoretical study of microwave-assisted magnetization switching in exchange coupled nano magnets. Applied Physics Letters, 2016, 109, .	3.3	7
114	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
115	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
116	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
117	Role of magnetostriction on power losses in nanocrystalline soft magnets. NPG Asia Materials, 2022, 14, .	7.9	7
118	Spin accumulation and resistance due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2058-2060.	2.3	6
119	Electrical Measurement of a Two-Electron Spin State in a Double Quantum Dot. Physical Review Letters, 2009, 103, 046806.	7.8	6
120	Conductance oscillations due to geometrical resonance inFNSdouble junctions. Physical Review B, 2009, 79, .	3.2	6
121	Boltzmann theory of magnetoresistance due to a spin spiral. Physical Review B, 2010, 81, .	3.2	6
122	Spin transfer torque in MTJs with synthetic ferrimagnetic layers by the Keldysh approach. Journal of Applied Physics, 2011, 109, .	2.5	6
123	Spin accumulation and mistracking effects on the magnetoresistance of a ferromagnetic nano-contact. Journal of Physics: Conference Series, 2011, 266, 012090.	0.4	6
124	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
125	Dependence of Spin Torque Switching Probability on Electric Current. Journal of Nanoscience and Nanotechnology, 2012, 12, 7520-7524.	0.9	6
126	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

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127	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
128	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
129	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
130	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
131	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
132	Large amplitude oscillation of magnetization in spin-torque oscillator stabilized by field-like torque. Journal of Applied Physics, 2015, 117, 17C504.	2.5	6
133	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
134	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
135	Methods for reducing write error rate in voltage-induced switching having prolonged tolerance of voltage-pulse duration. AIP Advances, 2019, 9, .	1.3	6
136	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
137	Indirect exchange interaction between two local spins embedded in an Aharonovâ€“Bohm Ring. Journal of Magnetism and Magnetic Materials, 2007, 310, 1142-1144.	2.3	5
138	Spin accumulation and magnetoresistance of a CPPâ€GMR system with a current confined path. Physica Status Solidi (B): Basic Research, 2007, 244, 4394-4397.	1.5	5
139	SPIN PUMPING IN FERROMAGNETIC MULTILAYERS. Modern Physics Letters B, 2008, 22, 2909-2929.	1.9	5
140	Current dependence of spin torque switching rate based on Fokker-Planck approach. Journal of Applied Physics, 2014, 115, 17C708.	2.5	5
141	Low-Power Switching of Magnetization Using Enhanced Magnetic Anisotropy with Application of a Short Voltage Pulse. Physical Review Applied, 2020, 14, .	3.8	5
142	Ambipolar device simulation based on the drift-diffusion model in ion-gated transition metal dichalcogenide transistors. Npj Computational Materials, 2020, 6, .	8.7	5
143	Spin-polarized tunneling and spin injection in superconductor-ferromagnet junctions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 44-48.	3.5	4
144	Orbital Magnetism in Three-Dimensional Quantum Dots. Journal of the Physical Society of Japan, 2002, 71, 1242-1245.	1.6	4

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145	Numerical analysis of spin accumulation due to a domain wall. Journal of Magnetism and Magnetic Materials, 2007, 310, 2055-2057.	2.3	4
146	Coherent transfer of time-bin photons to electron spins in a semiconductor. Physical Review A, 2012, 85, .	2.5	4
147	AC-Driven Breathing Mode of Confined Magnetic Domain Wall. Journal of the Physical Society of Japan, 2012, 81, 043801.	1.6	4
148	Phonon-Induced Electronâ€“Hole Excitation and ac Conductance in Molecular Junction. Journal of the Physical Society of Japan, 2016, 85, 043703.	1.6	4
149	Spin-wave coupled spin torque oscillators for artificial neural network. Journal of Applied Physics, 2018, 124, 152131.	2.5	4
150	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
151	The effect of charge fluctuation on a normalâ€“superconductingâ€“normal single-electron transistor. Physica C: Superconductivity and Its Applications, 2002, 367, 237-240.	1.2	3
152	Numerical simulation of spin accumulation and tunnel magnetoresistance in single electron tunnelling junctions with a nonmagnetic nanoparticle. Physica Status Solidi (B): Basic Research, 2007, 244, 4443-4447.	1.5	3
153	Dipolar Field Effect on Microwave Oscillation in a Domain-Wall Spin Valve. IEEE Transactions on Magnetics, 2009, 45, 3422-3425.	2.1	3
154	Current-Induced Exchange Length and Geometrically Constrained Magnetic Wall. Journal of the Physical Society of Japan, 2010, 79, 033706.	1.6	3
155	First-principles study of Ti intercalation between graphene and Au surface. Applied Physics Letters, 2011, 98, 261905.	3.3	3
156	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
157	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
158	Critical damping constant of microwave-assisted magnetization switching. Applied Physics Express, 2016, 9, 023001.	2.4	3
159	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
160	Critical thickness for spin wave-assisted switching of magnetization in a perpendicularly magnetized nanomagnet. Applied Physics Letters, 2018, 112, .	3.3	3
161	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
162	Theoretical Analysis of the Optimal Conditions for Photon-Spin Quantum State Transfer. Journal of the Physical Society of Japan, 2007, 76, 114004.	1.6	3

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163	Probability Distribution of the Write-Error Rate of Voltage-Controlled Magnetoresistive Random-Access Memories. Physical Review Applied, 2021, 16, .	3.8	3
164	Effect of exchange interaction on the fidelity of quantum state transfer from a photon qubit to an electron-spin qubit. Physical Review B, 2006, 74, .	3.2	2
165	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
166	Angle dependence of the magnetoresistance of CCP-CPP-GMR system. Journal of Physics: Conference Series, 2011, 266, 012108.	0.4	2
167	Role of Magnetic Field in Self-Oscillation of Nanomagnet Excited by Spin Torque. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	2
168	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
169	Development of â€œspin diceâ€Ââ€” A Scalable Random Number Generator Based on Spin-Torque Switching. Spin, 2019, 09, 1940009.	1.3	2
170	Large-Angle Precession of Magnetization Maintained by a Microwave Voltage. Physical Review Applied, 2020, 14, .	3.8	2
171	Spin blockade in quantum dots in magnetic fields. Physica B: Condensed Matter, 1998, 256-258, 194-197.	2.7	1
172	Andreev reflection in ferromagnet/superconductor/ferromagnet junctions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1523-E1524.	2.3	1
173	Control of spin configuration in semiconductor artificial molecules by spin field effect transistors. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1909-1910.	2.3	1
174	Twisted exchange interaction between localized spins in presence of Rashba spin-orbit coupling. AIP Conference Proceedings, 2005, , .	0.4	1
175	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
176	Coherent spin state transfer from light to electrons in a semiconductor. , 2009, , .		1
177	The origin of dispersion of magnetoresistance of a domain wall spin valve. Journal of Physics: Conference Series, 2010, 200, 062023.	0.4	1
178	Current-induced instability of geometrically confined magnetic wall. Journal of Physics: Conference Series, 2010, 200, 042016.	0.4	1
179	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
180	Thermal stability of geometrically confined domain wall structures. Journal of Physics: Conference Series, 2010, 200, 042022.	0.4	1

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181	Proposal of the spin-polarization measurement using noncontact Andreev reflection. Journal of Applied Physics, 2011, 109, .	2.5	1
182	Critical current density of domain wall oscillation due to spin-transfer torque. Journal of Physics: Conference Series, 2011, 292, 012007.	0.4	1
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