

Yoshichika Otani

List of Publications by Year in descending order

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394
papers

15,761
citations

18465

62
h-index

22808

112
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404
all docs

404
docs citations

404
times ranked

9142
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Reversible Spin Hall Effect. <i>Physical Review Letters</i> , 2007, 98, 156601.	2.9	908
2	Eigenfrequencies of vortex state excitations in magnetic submicron-size disks. <i>Journal of Applied Physics</i> , 2002, 91, 8037.	1.1	510
3	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. <i>Nature Physics</i> , 2017, 13, 1085-1090.	6.5	432
4	Magnetic properties of a new series of rare-earth iron nitrides: R ₂ Fe ₁₇ Ny (y approximately 2.6). <i>Journal of Physics Condensed Matter</i> , 1990, 2, 6465-6470.	0.7	341
5	The 2014 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 333001.	1.3	329
6	Indication of intrinsic spin Hall effect in d and d_5 transition metals. <i>Physical Review B</i> , 2011, 83, .	1.1	307
7	Fermi-level-dependent charge-to-spin current conversion by Dirac surface states of topological insulators. <i>Nature Physics</i> , 2016, 12, 1027-1031.	6.5	307
8	Magnetization reversal due to vortex nucleation, displacement, and annihilation in submicron ferromagnetic dot arrays. <i>Physical Review B</i> , 2001, 65, .	1.1	306
9	The 2021 Magnonics Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 413001.	0.7	287
10	Giant Spin Hall Effect Induced by Skew Scattering from Bismuth Impurities inside Thin Film CuBi Alloys. <i>Physical Review Letters</i> , 2012, 109, 156602.	2.9	278
11	Magnetic and magnetic inverse spin Hall effects in a non-collinear antiferromagnet. <i>Nature</i> , 2019, 565, 627-630.	13.7	252
12	Tuning the spin Hall effect of Pt from the moderately dirty to the superclean regime. <i>Physical Review B</i> , 2016, 94, .	1.1	243
13	Giant spin-accumulation signal and pure spin-current-induced reversible magnetization switching. <i>Nature Physics</i> , 2008, 4, 851-854.	6.5	236
14	Electrical manipulation of a topological antiferromagnetic state. <i>Nature</i> , 2020, 580, 608-613.	13.7	212
15	Extrinsic Spin Hall Effect Induced by Iridium Impurities in Copper. <i>Physical Review Letters</i> , 2011, 106, 126601.	2.9	203
16	Evolution of the Spin Hall Effect in Pt Nanowires: Size and Temperature Effects. <i>Physical Review Letters</i> , 2007, 99, 226604.	2.9	199
17	Estimation of spin-diffusion length from the magnitude of spin-current absorption: Multiterminal ferromagnetic/nonferromagnetic hybrid structures. <i>Physical Review B</i> , 2005, 72, .	1.1	192
18	Field evolution of magnetic vortex state in ferromagnetic disks. <i>Applied Physics Letters</i> , 2001, 78, 3848-3850.	1.5	188

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19	Advances in Magnetics Roadmap on Spin-Wave Computing. IEEE Transactions on Magnetics, 2022, 58, 1-72.	1.2	179
20	Giant enhancement of spin accumulation and long-distance spin precession in metallic lateral spin valves. Nature Materials, 2011, 10, 527-531.	13.3	174
21	Gas-phase carbonation of R_2Fe_{17} ; $R = Y, Sm$. Journal of Magnetism and Magnetic Materials, 1991, 98, 76-78.	1.0	164
22	Spin excitations of magnetic vortices in ferromagnetic nanodots. Physical Review B, 2002, 66, .	1.1	158
23	Spin wave contributions to the high-frequency magnetic response of thin films obtained with inductive methods. Journal of Applied Physics, 2004, 95, 5646-5652.	1.1	156
24	Magnetic properties of a new family of ternary rare-earth iron nitrides $R_2Fe_{17}N_3$ (invited). Journal of Applied Physics, 1991, 69, 5584-5589.	1.1	142
25	Effect of interdot magnetostatic interaction on magnetization reversal in circular dot arrays. Physical Review B, 2002, 65, .	1.1	140
26	Temperature Evolution of Spin Relaxation in a $NiFe/Cu$ Lateral Spin Valve. Physical Review Letters, 2008, 100, 066602.	2.9	138
27	Switching Magnetization of a Nanoscale Ferromagnetic Particle Using Nonlocal Spin Injection. Physical Review Letters, 2006, 96, 037201.	2.9	137
28	Dynamics of magnetostatically coupled vortices in magnetic nanodisks. Physical Review B, 2003, 67, .	1.1	134
29	Quantum materials for spin and charge conversion. Npj Quantum Materials, 2018, 3, .	1.8	132
30	$2e^2/h$ to e^2/h switching of quantum conductance associated with a change in nanoscale ferromagnetic domain structure. Applied Physics Letters, 1999, 75, 1622-1624.	1.5	131
31	Spin-wave spectra of perpendicularly magnetized circular submicron dot arrays. Applied Physics Letters, 2004, 85, 443-445.	1.5	130
32	Spintronic devices for energy-efficient data storage and energy harvesting. Communications Materials, 2020, 1, .	2.9	125
33	Magnetostatic interactions between magnetic arrays and superconducting thin films. Journal of Magnetism and Magnetic Materials, 1993, 126, 622-625.	1.0	122
34	Current-Nonlinear Hall Effect and Spin-Orbit Torque Magnetization Switching in a Magnetic Topological Insulator. Physical Review Letters, 2017, 119, 137204.	2.9	122
35	Metal bonded $Sm_2Fe_{17}N_3$ magnets. Journal of Applied Physics, 1991, 69, 6735-6737.	1.1	121
36	Current-induced magnetic vortex motion by spin-transfer torque. Physical Review B, 2006, 73, .	1.1	113

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37	Structure and magnetism of hcp-Co fine particles. <i>Journal of Applied Physics</i> , 1997, 81, 1858-1862.	1.1	112
38	Magneto-chiral nonreciprocity of volume spin wave propagation in chiral-lattice ferromagnets. <i>Physical Review B</i> , 2016, 93, .	1.1	109
39	Dynamics of Coupled Vortices in a Pair of Ferromagnetic Disks. <i>Physical Review Letters</i> , 2011, 106, 197203.	2.9	108
40	Magnetic vortex dynamics in a two-dimensional square lattice of ferromagnetic nanodisks. <i>Physical Review B</i> , 2004, 70, .	1.1	106
41	5d iridium oxide as a material for spin-current detection. <i>Nature Communications</i> , 2013, 4, 2893.	5.8	104
42	Anomalous Hall effect in thin films of the Weyl antiferromagnet Mn ₃ Sn. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	97
43	Extrinsic spin Hall effects measured with lateral spin valve structures. <i>Physical Review B</i> , 2014, 89, .	1.1	96
44	Large Spin Accumulation in a Permalloy-Silver Lateral Spin Valve. <i>Physical Review Letters</i> , 2007, 99, 196604.	2.9	94
45	Towards magnonic devices based on voltage-controlled magnetic anisotropy. <i>Communications Physics</i> , 2019, 2, .	2.0	94
46	Reciprocal spin Hall effects in conductors with strong spin-orbit coupling: a review. <i>Reports on Progress in Physics</i> , 2015, 78, 124501.	8.1	93
47	Nonreciprocal surface acoustic wave propagation via magneto-rotation coupling. <i>Science Advances</i> , 2020, 6, eabb1724.	4.7	91
48	Experimental Verification of Comparability between Spin-Orbit and Spin-Diffusion Lengths. <i>Physical Review Letters</i> , 2013, 110, 016805.	2.9	85
49	Novel magnetostrictive memory device. <i>Journal of Applied Physics</i> , 2000, 87, 6400-6402.	1.1	84
50	Spin-dependent boundary resistance in the lateral spin-valve structure. <i>Applied Physics Letters</i> , 2004, 85, 3501-3503.	1.5	82
51	Quasiparticle-mediated spin Hall effect in a superconductor. <i>Nature Materials</i> , 2015, 14, 675-678.	13.3	82
52	Propagation dynamics of spin excitations along skyrmion strings. <i>Nature Communications</i> , 2020, 11, 256.	5.8	81
53	Thickness dependence of spin torque ferromagnetic resonance in Co ₇₅ Fe ₂₅ /Pt bilayer films. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	78
54	Experimental observation of spin-to-charge current conversion at non-magnetic metal/Bi ₂ O ₃ interfaces. <i>Applied Physics Express</i> , 2016, 9, 033001.	1.1	78

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55	Tunable Magnonic Spectra in Two-Dimensional Magnonic Crystals with Variable Lattice Symmetry. <i>Advanced Functional Materials</i> , 2013, 23, 2378-2386.	7.8	76
56	Spin conversion on the nanoscale. <i>Nature Physics</i> , 2017, 13, 829-832.	6.5	75
57	Vertical bistable switching of spin vortex in a circular magnetic dot. <i>Journal of Applied Physics</i> , 2001, 90, 6548-6549.	1.1	73
58	Magnetic Vortex Dynamics. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 031004.	0.7	72
59	Spin Injection into a Superconductor with Strong Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2014, 112, 036602.	2.9	68
60	Voltage-Controlled Reconfigurable Spin-Wave Nanochannels and Logic Devices. <i>Physical Review Applied</i> , 2018, 9, .	1.5	68
61	Influence of 5d transition elements on the magnetocrystalline anisotropy of hcp-Co. <i>Journal of Physics Condensed Matter</i> , 1999, 11, L485-L490.	0.7	65
62	Magnetic and transport properties of ferromagnetic particulate arrays fabricated on superconducting thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 223-226.	1.0	64
63	Shape effect on magnetization reversal in chains of interacting ferromagnetic elements. <i>Applied Physics Letters</i> , 2003, 82, 3716-3718.	1.5	63
64	Spin transport in lateral ferromagnetic/nonmagnetic hybrid structures. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 165216.	0.7	63
65	Optically Induced Tunable Magnetization Dynamics in Nanoscale Co Antidot Lattices. <i>ACS Nano</i> , 2012, 6, 3397-3403.	7.3	63
66	Effects of Pt and Ta on the magnetic anisotropy of Co and Co/Cr thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 202, 305-310.	1.0	62
67	Relation between spin Hall effect and anomalous Hall effect in ferromagnetic metals. <i>Physical Review B</i> , 2019, 99, .	1.1	62
68	Creation of magnetic skyrmions by surface acoustic waves. <i>Nature Nanotechnology</i> , 2020, 15, 361-366.	15.6	62
69	TMOKE hysteresis loops in Bragg diffraction from 2D patterns. <i>Journal of Magnetism and Magnetic Materials</i> , 1993, 121, 516-519.	1.0	61
70	Emergent electromagnetic induction in a helical-spin magnet. <i>Nature</i> , 2020, 586, 232-236.	13.7	60
71	Magnetic and transport properties of sub-micron ferromagnetic wires. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 1096-1098.	1.2	59
72	Magneto-Volume and Tetragonal Elongation Effects on Magnetic Phase Transitions of Body-Centered Tetragonal FeRh _{1-x} Ptx. <i>Journal of the Physical Society of Japan</i> , 1994, 63, 3129-3144.	0.7	58

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73	Vortex motion in chirality-controlled pair of magnetic disks. Applied Physics Letters, 2007, 90, 132501.	1.5	57
74	Unveiling the mechanisms of the spin Hall effect in Ta. Physical Review B, 2018, 98, .	1.1	56
75	Current-Excited Magnetization Dynamics in Narrow Ferromagnetic Wires. Japanese Journal of Applied Physics, 2006, 45, L683-L685.	0.8	55
76	Enhancement of spin accumulation in a nonmagnetic layer by reducing junction size. Physical Review B, 2006, 73, .	1.1	55
77	Detection of Picosecond Magnetization Dynamics of 50 nm Magnetic Dots down to the Single Dot Regime. ACS Nano, 2011, 5, 9559-9565.	7.3	55
78	Inverse Edelstein effect induced by magnon-phonon coupling. Physical Review B, 2018, 97, .	1.1	55
79	Nucleation and annihilation of magnetic vortices in sub-micron permalloy dots. IEEE Transactions on Magnetics, 2001, 37, 2088-2090.	1.2	53
80	Macroscopic Magnetization Control by Symmetry Breaking of Photoinduced Spin Reorientation with Intense Terahertz Magnetic Near Field. Physical Review Letters, 2018, 120, 107202.	2.9	53
81	Influence of inverse spin Hall effect in spin-torque ferromagnetic resonance measurements. Applied Physics Express, 2016, 9, 023002.	1.1	49
82	Gas-phase carbonation of R2Fe17. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1439-1440.	1.0	48
83	Vortex chirality in an array of ferromagnetic dots. Physical Review B, 2002, 65, .	1.1	47
84	Evaluation of spin diffusion length and spin Hall angle of the antiferromagnetic Weyl semimetal Mn_3Sn . Physical Review B, 2019, 99, .	1.1	47
85	Nontrivial torque generation by orbital angular momentum injection in ferromagnetic-metal/insulator bilayers. Physical Review B, 2021, 103, .	1.1	47
86	In-plane and out-of-plane uniaxial anisotropies in rectangular arrays of circular dots studied by ferromagnetic resonance. Journal of Applied Physics, 2003, 93, 8418-8420.	1.1	46
87	Enhanced spin accumulation obtained by inserting low-resistance MgO interface in metallic lateral spin valves. Applied Physics Letters, 2010, 97, 012507.	1.5	45
88	Realization of a micrometre-scale spin-wave interferometer. Scientific Reports, 2015, 5, 9873.	1.6	45
89	Magnetoresistance and planar Hall effects in submicron exchange-coupled NiO/Fe19Ni81 wires. Applied Physics Letters, 1999, 74, 4026-4028.	1.5	44
90	Gyration mode splitting in magnetostatically coupled magnetic vortices in an array. Journal Physics D: Applied Physics, 2010, 43, 422001.	1.3	44

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91	Clear variation of spin splitting by changing electron distribution at non-magnetic metal/Bi ₂ O ₃ interfaces. <i>Scientific Reports</i> , 2018, 8, 5564.	1.6	44
92	Excitation of coherent propagating spin waves in ultrathin CoFeB film by voltage-controlled magnetic anisotropy. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	43
93	Charged-particle multiplicity distributions in $\hat{1}/2$ and $\hat{1}/2$ pcharged-current interactions. <i>Physical Review D</i> , 1983, 27, 47-57.	1.6	41
94	Revisiting the measurement of the spin relaxation time in graphene-based devices. <i>Physical Review B</i> , 2015, 91, .	1.1	41
95	Giant field-like torque by the out-of-plane magnetic spin Hall effect in a topological antiferromagnet. <i>Nature Communications</i> , 2021, 12, 6491.	5.8	41
96	Current-induced vortex displacement and annihilation in a single permalloy disk. <i>Physical Review B</i> , 2006, 74, .	1.1	39
97	High-resolution observation of magnetization processes in $2 \hat{1}/4 \text{ m } \text{Å} - 2 \hat{1}/4 \text{ m } \text{Å} - 0.04 \hat{1}/4 \text{ m}$ permalloy particles. <i>Journal of Applied Physics</i> , 1996, 79, 5075.	1.1	38
98	Anomalous Nernst effect in a microfabricated thermoelectric element made of chiral antiferromagnet Mn ₃ Sn. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	38
99	Modulation of effective damping constant using spin Hall effect. <i>Applied Physics Letters</i> , 2014, 104, 092408.	1.5	37
100	Magnetic flux penetration process in two-dimensional superconductor covered with ferromagnetic particle array. <i>Journal of Applied Physics</i> , 1996, 79, 8571-8577.	1.1	36
101	Current distribution inside Py/Cu lateral spin-valve devices. <i>Physical Review B</i> , 2005, 71, .	1.1	36
102	Spin relaxation mechanism in silver nanowires covered with MgO protection layer. <i>Applied Physics Letters</i> , 2012, 101, 022415.	1.5	36
103	Suppression of spin accumulation in nonmagnet due to ferromagnetic ohmic contact. <i>Applied Physics Letters</i> , 2004, 85, 3795-3796.	1.5	35
104	Dynamics of 1-D Chains of Magnetic Vortices in Response to Local and Global Excitations. <i>IEEE Transactions on Magnetism</i> , 2010, 46, 1342-1345.	1.2	34
105	Manipulation of spin currents in metallic systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3136-3149.	1.6	34
106	Spin relaxation mechanism in a highly doped organic polymer film. <i>Physical Review B</i> , 2015, 91, .	1.1	34
107	Acoustic ferromagnetic resonance and spin pumping induced by surface acoustic waves. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 264002.	1.3	34
108	Magnetization reversal in submicron ferromagnetic dots and antidots arrays. <i>IEEE Transactions on Magnetism</i> , 1998, 34, 1090-1092.	1.2	33

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109	The spin Hall effect as a probe of nonlinear spin fluctuations. <i>Nature Communications</i> , 2012, 3, 1058.	5.8	33
110	Shape- and Interface-Induced Control of Spin Dynamics of Two-Dimensional Bicomponent Magnonic Crystals. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18339-18346.	4.0	33
111	Coercivity and microstructure of melt-spun $\text{Sm}(\text{Fe}_{11}\text{Ti})$. <i>Journal of Applied Physics</i> , 1990, 67, 4659-4661.	1.1	32
112	First-Order Magnetic Phase Transitions Observed in bct FeRh -Pt, Pd Systems. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 232.	0.8	32
113	Effect of antiferromagnetic grain size on exchange-coupling field of $\text{Cr}_{70}\text{Al}_{30}/\text{Fe}_{19}\text{Ni}_{81}$ bilayers. <i>Applied Physics Letters</i> , 1997, 71, 1258-1260.	1.5	32
114	Current-excited magnetization reversal under in-plane magnetic field in a nanoscaled ferromagnetic wire. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	32
115	Voltage-induced magnetization dynamics in $\text{CoFeB}/\text{MgO}/\text{CoFeB}$ magnetic tunnel junctions. <i>Scientific Reports</i> , 2017, 7, 42511.	1.6	32
116	Voltage controlled on-demand magnonic nanochannels. <i>Science Advances</i> , 2020, 6, .	4.7	32
117	Benchmark time-resolved magneto-optical Kerr magnetometer. <i>Review of Scientific Instruments</i> , 2008, 79, 123905.	0.6	31
118	Magneto-optical Kerr effect in a non-collinear antiferromagnet Mn_3Ge . <i>Applied Physics Letters</i> , 2020, 116, .	1.5	31
119	Detection of magnetic state in a nanoscale ferromagnetic ring by using ballistic semiconductor two-dimensional electron gas. <i>Applied Physics Letters</i> , 2006, 88, 082501.	1.5	30
120	Important role of magnetization precession angle measurement in inverse spin Hall effect induced by spin pumping. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	30
121	Spin diffusion length of Permalloy using spin absorption in lateral spin valves. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	30
122	Efficient Modulation of Spin Waves in Two-Dimensional Octagonal Magnonic Crystal. <i>ACS Nano</i> , 2017, 11, 8814-8821.	7.3	30
123	Multiparticle production by 200-GeV/chadrons on gold, silver, and magnesium targets. <i>Physical Review D</i> , 1989, 39, 2484-2493.	1.6	29
124	Large magnetoresistance in Heusler-alloy-based epitaxial magnetic junctions with semiconducting $\text{Cu}(\text{In}_{0.8}\text{Ga}_{0.2})\text{Se}_2$ spacer. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	29
125	Spin transfer switching in current-perpendicular-to-plane spin valve observed by magneto-optical Kerr effect using visible light. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	28
126	Magnetic characterization and switching of Co nanorings in current-perpendicular-to-plane configuration. <i>Applied Physics Letters</i> , 2007, 90, 022504.	1.5	28

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127	Tunable configurational anisotropy in collective magnetization dynamics of Ni80Fe20 nanodot arrays with varying dot shapes. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	28
128	Spin transport in non-magnetic nano-structures induced by non-local spin injection. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 68, 239-263.	1.3	28
129	Evaluation of bulk-interface contributions to Edelstein magnetoresistance at metal/oxide interfaces. <i>Physical Review B</i> , 2017, 96, .	1.1	28
130	Determination of magnetic vortex chirality using lateral spin-valve geometry. <i>Applied Physics Letters</i> , 2005, 87, 172506.	1.5	27
131	Tunable spin wave dynamics in two-dimensional Ni80Fe20 nanodot lattices by varying dot shape. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	27
132	Effect of anisotropic spin absorption on the Hanle effect in lateral spin valves. <i>Physical Review B</i> , 2014, 89, .	1.1	27
133	Spin-current-assisted domain-wall depinning in a submicron magnetic wire. <i>Journal of Applied Physics</i> , 2003, 94, 7947.	1.1	26
134	Domain Nucleation and Annihilation in Uniformly Magnetized State under Current Pulses in Narrow Ferromagnetic Wires. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L1322-L1324.	0.8	26
135	Magneto-Optical and Spin-Transfer Switching Properties of Current-Perpendicular-to Plane Spin Valves With Perpendicular Magnetic Anisotropy. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2491-2495.	1.2	26
136	Tunable spin wave spectra in two-dimensional Ni80Fe20 antidot lattices with varying lattice symmetry. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	26
137	Direct optical observation of spin accumulation at nonmagnetic metal/oxide interface. <i>Applied Physics Letters</i> , 2017, 111, 092402.	1.5	26
138	Omnidirectional Control of Large Electrical Output in a Topological Antiferromagnet. <i>Advanced Functional Materials</i> , 2021, 31, 2008971.	7.8	26
139	Suppressed pinning field of a trapped domain wall due to direct current injection. <i>Journal of Applied Physics</i> , 2003, 94, 7266-7269.	1.1	25
140	Electrical Control of the Direction of Spin Accumulation. <i>Physical Review Letters</i> , 2007, 99, 166601.	2.9	25
141	Simulations of the dynamic switching of vortex chirality in magnetic nanodisks by a uniform field pulse. <i>Physical Review B</i> , 2009, 80, .	1.1	25
142	All-optical investigation of tunable picosecond magnetization dynamics in ferromagnetic nanostripes with a width down to 50 nm. <i>Nanoscale</i> , 2015, 7, 18312-18319.	2.8	25
143	Neutral-Current $\hat{1}/2\hat{1}/4$ and $\hat{1}/2\hat{1}/4$ Cross Sections from High-Energy Neutrino Interactions in Deuterium. <i>Physical Review Letters</i> , 1982, 48, 910-914.	2.9	24
144	Magnetism of Body-Centered Tetragonal FeRh1-xPdxAlloys (I) Magnetic Properties. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 4906-4913.	0.7	24

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145	Pinning of magnetic vortices in microfabricated permalloy dot arrays. Journal of Applied Physics, 2002, 92, 1473-1476.	1.1	24
146	Perspectives on spintronics with surface acoustic waves. Applied Physics Letters, 2022, 120, .	1.5	24
147	Magnetocrystalline anisotropy in Nd-Fe-B magnet. Journal of Applied Physics, 1987, 61, 3436-3438.	1.1	23
148	Change in the Resistivity of bcc and bct FeRh Alloys at First-Order Magnetic Phase Transitions. Journal of the Physical Society of Japan, 1995, 64, 3978-3985.	0.7	23
149	Magnetic and Transport Properties of Micron Size Magnetic Particulate Arrays Fabricated on a 2D Superconducting Nb Films and Sub-Micron Magnetic Wires. Materials Research Society Symposia Proceedings, 1997, 475, 215.	0.1	23
150	Convergence properties of critical dimension measurements by spectroscopic ellipsometry on gratings made of various materials. Journal of Applied Physics, 2006, 100, 054906.	1.1	23
151	Construction and development of a time-resolved x-ray magnetic circular dichroism photoelectron emission microscopy system using femtosecond laser pulses at BL25SU SPring-8. Review of Scientific Instruments, 2008, 79, 063903.	0.6	23
152	Characteristics of Yttrium Iron Garnet Ultrafine Particles Prepared by the Alkoxide Method. Journal of the American Ceramic Society, 1994, 77, 1787-1792.	1.9	22
153	Conductance quantization in ferromagnetic Ni nano-constriction. Journal of Magnetism and Magnetic Materials, 2002, 239, 243-245.	1.0	22
154	Laser ablation deposition of metallic films and bilayers (Fe, rare earth and R/Fe bilayers). Journal of Magnetism and Magnetic Materials, 1993, 126, 225-231.	1.0	21
155	Electric-field control of interfacial in-plane magnetic anisotropy in CoFeB/MgO junctions. Physical Review B, 2020, 101, .	1.1	21
156	Electrical nucleation, displacement, and detection of antiferromagnetic domain walls in the chiral antiferromagnet Mn ₃ Sn. Communications Physics, 2020, 3, .	2.0	21
157	Magnetization processes in Nd-Fe-B permanent magnets. Journal of Magnetism and Magnetic Materials, 1986, 60, 168-170.	1.0	20
158	Demagnetization process and magnetic seeds for R-Fe-B permanent magnets. IEEE Transactions on Magnetics, 1987, 23, 2527-2529.	1.2	20
159	Inductive measurement of the high frequency permeability of a Permalloy thin film. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 290-292.	1.0	20
160	Spin injection properties in trilayer graphene lateral spin valves. Applied Physics Letters, 2013, 102, 033105.	1.5	20
161	Configurational anisotropic spin waves in cross-shaped Ni ₈₀ Fe ₂₀ nanoelements. Applied Physics Letters, 2013, 102, .	1.5	20
162	Large nonlinear ferromagnetic resonance shift and strong magnon-magnon coupling in $Ni_{80}Fe_{20}$ nano	1.1	20

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163	Giant Effective Damping of Octupole Oscillation in an Antiferromagnetic Weyl Semimetal. <i>Small Science</i> , 2021, 1, 2000062.	5.8	20
164	Photoinduced Rashba Spin-to-Charge Conversion via an Interfacial Unoccupied State. <i>Physical Review Letters</i> , 2019, 122, 256401.	2.9	19
165	Coercivity mechanism of melt-spun Sm(Fe ₁₁ /Ti). <i>IEEE Transactions on Magnetics</i> , 1990, 26, 2658-2660.	1.2	18
166	Magnetic and transport properties of epitaxial Fe/MgO(001) wires. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 198-199, 200-203.	1.0	18
167	Spin Signal in Metallic Lateral Spin Valves Made by a Multiple Angle Evaporation Technique. <i>Applied Physics Express</i> , 2011, 4, 063007.	1.1	18
168	All-Optical Excitation and Detection of Picosecond Dynamics of Ordered Arrays of Nanomagnets with Varying Areal Density. <i>Applied Physics Express</i> , 2011, 4, 113003.	1.1	18
169	Towards coherent spin precession in pure-spin current. <i>Scientific Reports</i> , 2012, 2, 628.	1.6	18
170	PERFECT ALLOYS FOR SPIN HALL CURRENT-INDUCED MAGNETIZATION SWITCHING. <i>Spin</i> , 2012, 02, 1250010.	0.6	18
171	Effect of excitation power on voltage induced local magnetization dynamics in an ultrathin CoFeB film. <i>Scientific Reports</i> , 2017, 7, 2318.	1.6	18
172	Anomalous demagnetization process at very low temperature in Nd-Fe-B magnets. <i>Journal of Applied Physics</i> , 1990, 67, 4619-4621.	1.1	17
173	Magnetic properties of amorphous nanocolumns created by heavy ion irradiation of paramagnetic YCo ₂ thin films (invited). <i>Journal of Applied Physics</i> , 1994, 76, 6661-6666.	1.1	17
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