

Teruo Ono

List of Publications by Year in descending order

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121
papers

7,624
citations

87888
38
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53230
85
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122
all docs

122
docs citations

122
times ranked

5636
citing authors

#	ARTICLE	IF	CITATIONS
1	Antiferromagnetic spintronics. Reviews of Modern Physics, 2018, 90, .	45.6	1,536
2	Real-Space Observation of Current-Driven Domain Wall Motion in Submicron Magnetic Wires. Physical Review Letters, 2004, 92, 077205.	7.8	883
3	Electrical control of the ferromagnetic phase transition in cobalt at room temperature. Nature Materials, 2011, 10, 853-856.	27.5	398
4	Propagation of a Magnetic Domain Wall in a Submicrometer Magnetic Wire. Science, 1999, 284, 468-470.	12.6	354
5	Fast domain wall motion in the vicinity of the angular momentum compensation temperature of $\text{Gd}_2\text{Fe}_2\text{O}_7$ ferrimagnets. Nature Materials, 2017, 16, 1187-1192.	27.5	321
6	Observation of the intrinsic pinning of a magnetic domain wall in a ferromagnetic nanowire. Nature Materials, 2011, 10, 194-197.	27.5	302
7	Observation of superconducting diode effect. Nature, 2020, 584, 373-376.	27.8	211
8	Spin torque control of antiferromagnetic moments in NiO. Scientific Reports, 2018, 8, 14167.	3.3	190
9	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. Nature Nanotechnology, 2019, 14, 232-236.	31.5	137
10	Ferrimagnetic spintronics. Nature Materials, 2022, 21, 24-34.	27.5	129
11	Electrical control of Curie temperature in cobalt using an ionic liquid film. Applied Physics Letters, 2012, 100, .	3.3	128
12	Soliton-like magnetic domain wall motion induced by the interfacial Dzyaloshinskii-Moriya interaction. Nature Physics, 2016, 12, 157-161.	16.7	125
13	Anti-damping spin transfer torque through epitaxial nickel oxide. Applied Physics Letters, 2015, 106, .	3.3	116
14	Bulk Dzyaloshinskii-Moriya interaction in amorphous ferrimagnetic alloys. Nature Materials, 2019, 18, 685-690.	27.5	116
15	Domain Wall Motion Induced by Electric Current in a Perpendicularly Magnetized Co/Ni Nano-Wire. Applied Physics Express, 0, 2, 053002.	2.4	110
16	Control of Multiple Magnetic Domain Walls by Current in a Co/Ni Nano-Wire. Applied Physics Express, 2010, 3, 073004.	2.4	108
17	Nonreciprocal emission of spin-wave packet in FeNi film. Applied Physics Letters, 2010, 97, .	3.3	100
18	Magnetic force microscopy observation of antivortex core with perpendicular magnetization in patterned thin film of permalloy. Applied Physics Letters, 2002, 80, 4190-4192.	3.3	99

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19	Magnetization reversal in submicron magnetic wire studied by using giant magnetoresistance effect. Applied Physics Letters, 1998, 72, 1116-1117.	3.3	93
20	Control of Domain Wall Position by Electrical Current in Structured Co/Ni Wire with Perpendicular Magnetic Anisotropy. Applied Physics Express, 0, 1, 101303.	2.4	91
21	Sequential write-read operations in FeRh antiferromagnetic memory. Applied Physics Letters, 2015, 107, .	3.3	79
22	Time-Domain Measurement of Current-Induced Spin Wave Dynamics. Physical Review Letters, 2012, 108, 017203.	7.8	72
23	Tunable Magnon-Magnon Coupling Mediated by Dynamic Dipolar Interaction in Synthetic Antiferromagnets. Physical Review Letters, 2020, 125, 017203.	7.8	72
24	Temperature dependence of spin-orbit effective fields in Pt/GdFeCo bilayers. Applied Physics Letters, 2017, 110, .	3.3	66
25	Correlation between compensation temperatures of magnetization and angular momentum in GdFeCo ferrimagnets. Physical Review B, 2018, 97, .	3.2	64
26	Correlation of the Dzyaloshinskiiâ€“Moriya interaction with Heisenberg exchange and orbital asphericity. Nature Communications, 2018, 9, 1648.	12.8	60
27	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. Physical Review Letters, 2019, 122, 127203.	7.8	60
28	Magnetic field insensitivity of magnetic domain wall velocity induced by electrical current in Co/Ni nanowire. Applied Physics Letters, 2011, 98, .	3.3	57
29	Switchable giant nonreciprocal frequency shift of propagating spin waves in synthetic antiferromagnets. Science Advances, 2020, 6, eaaz6931.	10.3	57
30	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. Nature Electronics, 2019, 2, 389-393.	26.0	55
31	Hugoniot measurement of diamond under laser shock compression up to 2TPa. Physics of Plasmas, 2006, 13, 052705.	1.9	53
32	Current-induced magnetic domain wall motion below intrinsic threshold triggered by Walker breakdown. Nature Nanotechnology, 2012, 7, 635-639.	31.5	52
33	Geometrical confinement of a domain wall in a nanocontact between two NiFe wires. Journal of Applied Physics, 2002, 91, 3468-3470.	2.5	51
34	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. Physical Review B, 2017, 96, .	3.2	50
35	Antiferromagnet-mediated spin transfer between a metal and a ferromagnet. Physical Review B, 2015, 92, .	3.2	49
36	Modulation of the magnetic domain size induced by an electric field. Applied Physics Letters, 2016, 109, .	3.3	49

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37	Spin-Orbit-Torque Memory Operation of Synthetic Antiferromagnets. Physical Review Letters, 2018, 121, 167202.	7.8	49
38	Current-driven domain-wall motion in magnetic wires with asymmetric notches. Applied Physics Letters, 2005, 87, 243108.	3.3	48
39	Field-free superconducting diode effect in noncentrosymmetric superconductor/ferromagnet multilayers. Nature Nanotechnology, 2022, 17, 823-828.	31.5	45
40	Two-barrier stability that allows low-power operation in current-induced domain-wall motion. Nature Communications, 2013, 4, 2011.	12.8	43
41	Temperature dependence of carrier spin polarization determined from current-induced domain wall motion in a Co/Ni nanowire. Applied Physics Letters, 2012, 100, .	3.3	39
42	Electric Field Modulation of Magnetic Anisotropy in MgO/Co/Pt Structure. Applied Physics Express, 2013, 6, 073004.	2.4	38
43	Intrinsic and extrinsic antiferromagnetic damping in NiO. Physical Review Materials, 2019, 3, .	2.4	38
44	Direct visualization of the three-dimensional shape of skyrmion strings in a noncentrosymmetric magnet. Nature Materials, 2022, 21, 181-187.	27.5	37
45	Magnetic droplet nucleation with a homochiral Néel domain wall. Physical Review B, 2017, 95, .	3.2	36
46	Influence of Instabilities on High-Field Magnetic Domain Wall Velocity in (Co/Ni) Nanostrips. Applied Physics Express, 2011, 4, 113001.	2.4	31
47	Magnetic Moment Orientation-Dependent Spin Dissipation in Antiferromagnets. Physical Review Letters, 2017, 119, 267204.	7.8	30
48	Chiral magnetic domain wall in ferrimagnetic GdFeCo wires. Applied Physics Express, 2015, 8, 073001.	2.4	29
49	Current-Induced Domain Wall Motion in Perpendicularly Magnetized Co/Ni Nanowire under In-Plane Magnetic Fields. Applied Physics Express, 2012, 5, 063001.	2.4	27
50	Transition in mechanism for current-driven magnetic domain wall dynamics. Applied Physics Express, 2014, 7, 053006.	2.4	27
51	Microscopic Investigation into the Electric Field Effect on Proximity-Induced Magnetism in Pt. Physical Review Letters, 2018, 120, 157203.	7.8	26
52	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. Applied Physics Express, 2019, 12, 093001.	2.4	24
53	Resistive detection of the Néel temperature of Cr2O3 thin films. Applied Physics Letters, 2019, 114, .	3.3	23
54	Principles of stroboscopic detection of nuclear forward-scattered synchrotron radiation. Physical Review B, 2003, 67, .	3.2	22

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55	Spin waves in perpendicularly magnetized Co/Ni(111) multilayers in the presence of magnetic domains. Physical Review B, 2012, 86, .	3.2	21
56	Interfacial Dzyaloshinskii-Moriya interaction studied by time-resolved scanning Kerr microscopy. Physical Review B, 2015, 92, .	3.2	21
57	Three-dimensional visualization of magnetic domain structure with strong uniaxial anisotropy via scanning hard X-ray microtomography. Applied Physics Express, 2018, 11, 036601.	2.4	20
58	Linewidth broadening of optical precession mode in synthetic antiferromagnet. Applied Physics Express, 2014, 7, 063010.	2.4	19
59	Electric-field-induced modulation of the anomalous Hall effect in a heterostructured itinerant ferromagnet SrRuO_3 . Physical Review B, 2017, 96, .	3.2	19
60	Coupled spin waves in trilayer films and nanostripes of permalloy separated by nonmagnetic spacers: Brillouin light scattering and theory. Physical Review B, 2013, 87, .	3.2	18
61	Unconventional magnetoresistance induced by spin magnetism in GdFeCo. Physical Review B, 2021, 103, .	3.2	17
62	Observation of nonreciprocal superconducting critical field. Applied Physics Express, 2021, 14, 073003.	2.4	17
63	Dzyaloshinskii-Moriya interaction in noncentrosymmetric superlattices. Npj Computational Materials, 2021, 7, .	8.7	17
64	In-plane field-driven crossover in the spin-torque mechanism acting on magnetic domain walls in Co/Ni. Physical Review B, 2015, 91, .	3.2	16
65	Enhanced perpendicular magnetocrystalline anisotropy energy in an artificial magnetic material with bulk spin-momentum coupling. Physical Review B, 2019, 99, .	3.2	16
66	Laser stimulated THz emission from Pt/CoO/FeCoB. Applied Physics Letters, 2020, 117, .	3.3	16
67	Current-Induced Magnetic Domain Wall Motion in Co/Ni Nanowire at Low Temperature. Applied Physics Express, 2011, 4, 063003.	2.4	15
68	Precise control of magnetic domain wall displacement by a nanosecond current pulse in Co/Ni nanowires. Applied Physics Express, 2015, 8, 073008.	2.4	15
69	Interfacial Dzyaloshinskii-Moriya interaction and orbital magnetic moments of metallic multilayer films. AIP Advances, 2017, 7, .	1.3	15
70	Effect of spin Hall torque on current-induced precessional domain wall motion. Applied Physics Express, 2014, 7, 033005.	2.4	14
71	Current-driven magnetic domain wall motion and its real-time detection. Japanese Journal of Applied Physics, 2017, 56, 0802A4.	1.5	14
72	Spin current transmission in polycrystalline NiO films. Applied Physics Express, 2018, 11, 073003.	2.4	12

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73	Tailoring THz antiferromagnetic resonance of NiO by cation substitution. Physical Review Materials, 2020, 4, .	2.4	12
74	Development of a curved multi-tube (CMT) catheter for percutaneous umbilical blood sampling and control methods of CMT catheters for solid organs. , 0, , .		11
75	Low Current Driven Vertical Domain Wall Motion Memory with an Artificial Ferromagnet. Journal of the Magnetism Society of Japan, 2021, 45, 6-11.	0.9	11
76	Switching local magnetization by electric-field-induced domain wall motion. Applied Physics Express, 2016, 9, 063004.	2.4	10
77	Distinct domain reversal mechanisms in epitaxial and polycrystalline antiferromagnetic NiO films from high-field spin Hall magnetoresistance. Applied Physics Letters, 2020, 116, 192402.	3.3	9
78	Isomer shift determination in Eu compounds using stroboscopic detection of synchrotron radiation. Physical Review B, 2004, 70, .	3.2	8
79	Different stochastic behaviors for magnetic field and current in domain wall creep motion. Applied Physics Express, 2014, 7, 053005.	2.4	8
80	Ferromagnetic resonance measurements in sub-nanometer Fe films. Applied Physics Express, 2015, 8, 073003.	2.4	8
81	Fabrication of Noncentrosymmetric Nb/V/Ta Superlattice and its Superconductivity. Journal of the Magnetism Society of Japan, 2019, 43, 17-20.	0.9	8
82	Magnetic Microscopy Using a Circularly Polarized Hard-X-ray Nanoprobe at SPring-8. Synchrotron Radiation News, 2020, 33, 4-11.	0.8	8
83	Homodyne detection of ferromagnetic resonance by a non-uniform radio-frequency excitation current. Applied Physics Express, 2018, 11, 053008.	2.4	7
84	Fabrication of Ferrimagnetic Co/Gd/Pt Multilayers with Structural Inversion Symmetry Breaking. Journal of the Magnetism Society of Japan, 2020, 44, 9-14.	0.9	7
85	Interfacial Dzyaloshinskii-Moriya interaction and dampinglike spin-orbit torque in $\text{Co}/\text{Pt}/\text{Co}$ magnetic multilayers. Physical Review B, 2021, 103, .	0.9	7
86	Spin Wave Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. Journal of the Magnetism Society of Japan, 2021, 45, 25-29.	0.9	7
87	Resonant spin-wave modes in trilayered magnetic nanowires studied in the parallel and antiparallel ground state. Journal of Magnetism and Magnetic Materials, 2015, 384, 45-48.	2.3	6
88	Magnetic domain writing defined by electrical gating in Pt/Co film. Applied Physics Letters, 2018, 113, .	3.3	6
89	Domain wall pinning by a stray field from NiFe on a Co/Ni nanowire. Journal of the Korean Physical Society, 2013, 63, 608-611.	0.7	5
90	Correlation between magnetic properties and depinning field in field-driven domain wall dynamics in GdFeCo ferrimagnets. Applied Physics Letters, 2018, 112, .	3.3	5

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91	Choking Nonlocal Magnetic Damping in Exchange-Biased Ferromagnets. <i>Physical Review Applied</i> , 2019, 11, .	3.8	5
92	Imaging of caustic-like spin wave beams using optical heterodyne detection. <i>Applied Physics Letters</i> , 2020, 116, 192411.	3.3	5
93	Polarization-Selective Excitation of Antiferromagnetic Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Physical Review Applied</i> , 2022, 18, .	3.8	5
94	Magnetic Properties of Nanoscale Wire and Dot Systems. <i>Physica Status Solidi A</i> , 2002, 189, 567-574.	1.7	4
95	Crystal growth of YBa/sub 2/Cu/sub 3/O/7-X/ thin films prepared by TFA-MOD method. <i>IEEE Transactions on Applied Superconductivity</i> , 2003, 13, 2512-2515.	1.7	4
96	Mössbauer and TDPAC Studies on Fe/Mo Multilayers. <i>Hyperfine Interactions</i> , 2004, 158, 145-149.	0.5	4
97	Localized precessional mode of domain wall controlled by magnetic field and dc current. <i>Applied Physics Express</i> , 2015, 8, 023003.	2.4	4
98	Effect of depinning field on determination of angular-momentum-compensation temperature of ferrimagnets. <i>Applied Physics Express</i> , 2018, 11, 063001.	2.4	4
99	Crystal orientation dependence of spin Hall angle in epitaxial Pt/FeNi systems. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	4
100	Orbital-dependent electric field effect on magnetism in ultrathin cobalt. <i>Physical Review B</i> , 2020, 102, .	3.2	3
101	Estimation of Angular Momentum Compensation Temperature in GdFe Film by Magnetic Compton Scattering. <i>Journal of the Magnetism Society of Japan</i> , 2021, 45, 1-5.	0.9	3
102	Investigation of the upper critical field in artificially engineered Nb/V/Ta superlattices. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 060902.	1.5	3
103	Control of antiferromagnetic resonance and the Morin temperature in cation doped $\text{Fe}_{2-x}\text{M}_x\text{O}_3$ ($\text{M} = \text{Al, Ru, Rh, and In}$). <i>Applied Physics Letters</i> , 2021, 119, .	3.3	3
104	Long-distance spin current transmission in single-crystalline NiO thin films. <i>Applied Physics Express</i> , 2021, 14, 123001.	2.4	3
105	Magnetic polarization selective spectroscopy of magnetic thin films probed by wideband crossed microstrip circuit in GHz regime. <i>Review of Scientific Instruments</i> , 2022, 93, 013901.	1.3	3
106	XMCD and <i>ab initio</i> study of interface-engineered ultrathin Ru/Co/W/Ru films with perpendicular magnetic anisotropy and strong Dzyaloshinskii–Moriya interaction. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8225-8232.	2.8	3
107	Magnetic soliton rectifier via phase synchronization. <i>Physical Review B</i> , 2020, 102, .	3.2	2
108	Magnetic damping enhancement in $\text{L1}_{2\text{-ordered}}$ $\text{Mn}_3\text{Ir/Fe}_{20}\text{Ni}_{80}$ bilayers. <i>Applied Physics Express</i> , 2020, 13, 073001.	2.4	2

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109	Temperature dependence of domain wall creep motion in ferrimagnetic Tb/CoFeB/MgO microwires. Journal of Magnetism and Magnetic Materials, 2022, 553, 169251.	2.3	2
110	Enhancement of spin wave group velocity in ferrimagnets with angular momentum compensation. Applied Physics Express, 2020, 13, 063003.	2.4	1
111	Field-driven domain wall creep motion in ferrimagnetic Tb/CoFeB/MgO microwires. Japanese Journal of Applied Physics, 2021, 60, 020902.	1.5	1
112	Positive correlation between interlayer exchange coupling and the driving current of domain wall motion in a synthetic antiferromagnet. Applied Physics Letters, 2021, 119, .	3.3	1
113	Estimation of Magnetic Domain Size in Chiral Antiferromagnet Mn ₃ Ir by the Anomalous Hall Measurements. Journal of the Magnetics Society of Japan, 2021, 45, 75-78.	0.9	1
114	Optical polarimetric measurement of surface acoustic waves. Applied Physics Letters, 2021, 119, 181106.	3.3	1
115	Chromatic Aberration Effect in Refraction of Spin Waves. Journal of the Magnetics Society of Japan, 2020, 44, 133-136.	0.9	1
116	Inhomogeneous magnetic properties characterized by simultaneous electrical and optical detection of spin-torque ferromagnetic resonance. Applied Physics Letters, 2021, 119, 192409.	3.3	1
117	Observation of temperature-dependent Dzyaloshinskiiâ€Moriya interaction within the 50â€300 K range. Japanese Journal of Applied Physics, 2022, 61, 020901.	1.5	1
118	Firstâ€principles study on electronic structure of fullerene polymers. Surface and Interface Analysis, 2008, 40, 1067-1070.	1.8	0
119	Observation of domain wall segment jump among disorders. Journal of Magnetism and Magnetic Materials, 2020, 511, 166999.	2.3	0
120	RESISTANCE OF GEOMETRICALLY CONFINED MAGNETIC DOMAIN WALL. , 2002, , .		0
121	Spintronic Materials and Their Properties Investigated by Synchrotron Radiation. Vacuum and Surface Science, 2022, 65, 218-223.	0.1	0