

Teruo Ono

List of Publications by Year in descending order

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121
papers

7,624
citations

87723

38
h-index

53109

85
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122
all docs

122
docs citations

122
times ranked

5636
citing authors

#	ARTICLE	IF	CITATIONS
1	Antiferromagnetic spintronics. <i>Reviews of Modern Physics</i> , 2018, 90, .	16.4	1,536
2	Real-Space Observation of Current-Driven Domain Wall Motion in Submicron Magnetic Wires. <i>Physical Review Letters</i> , 2004, 92, 077205.	2.9	883
3	Electrical control of the ferromagnetic phase transition in cobalt at room temperature. <i>Nature Materials</i> , 2011, 10, 853-856.	13.3	398
4	Propagation of a Magnetic Domain Wall in a Submicrometer Magnetic Wire. <i>Science</i> , 1999, 284, 468-470.	6.0	354
5	Fast domain wall motion in the vicinity of the angular momentum compensation temperature of ferrimagnets. <i>Nature Materials</i> , 2017, 16, 1187-1192.	13.3	321
6	Observation of the intrinsic pinning of a magnetic domain wall in a ferromagnetic nanowire. <i>Nature Materials</i> , 2011, 10, 194-197.	13.3	302
7	Observation of superconducting diode effect. <i>Nature</i> , 2020, 584, 373-376.	13.7	211
8	Spin torque control of antiferromagnetic moments in NiO. <i>Scientific Reports</i> , 2018, 8, 14167.	1.6	190
9	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. <i>Nature Nanotechnology</i> , 2019, 14, 232-236.	15.6	137
10	Ferrimagnetic spintronics. <i>Nature Materials</i> , 2022, 21, 24-34.	13.3	129
11	Electrical control of Curie temperature in cobalt using an ionic liquid film. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	128
12	Soliton-like magnetic domain wall motion induced by the interfacial Dzyaloshinskii-Moriya interaction. <i>Nature Physics</i> , 2016, 12, 157-161.	6.5	125
13	Anti-damping spin transfer torque through epitaxial nickel oxide. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	116
14	Bulk Dzyaloshinskii-Moriya interaction in amorphous ferrimagnetic alloys. <i>Nature Materials</i> , 2019, 18, 685-690.	13.3	116
15	Domain Wall Motion Induced by Electric Current in a Perpendicularly Magnetized Co/Ni Nano-Wire. <i>Applied Physics Express</i> , 0, 2, 053002.	1.1	110
16	Control of Multiple Magnetic Domain Walls by Current in a Co/Ni Nano-Wire. <i>Applied Physics Express</i> , 2010, 3, 073004.	1.1	108
17	Nonreciprocal emission of spin-wave packet in FeNi film. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	100
18	Magnetic force microscopy observation of antivortex core with perpendicular magnetization in patterned thin film of permalloy. <i>Applied Physics Letters</i> , 2002, 80, 4190-4192.	1.5	99

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19	Magnetization reversal in submicron magnetic wire studied by using giant magnetoresistance effect. <i>Applied Physics Letters</i> , 1998, 72, 1116-1117.	1.5	93
20	Control of Domain Wall Position by Electrical Current in Structured Co/Ni Wire with Perpendicular Magnetic Anisotropy. <i>Applied Physics Express</i> , 0, 1, 101303.	1.1	91
21	Sequential write-read operations in FeRh antiferromagnetic memory. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	79
22	Time-Domain Measurement of Current-Induced Spin Wave Dynamics. <i>Physical Review Letters</i> , 2012, 108, 017203.	2.9	72
23	Tunable Magnon-Magnon Coupling Mediated by Dynamic Dipolar Interaction in Synthetic Antiferromagnets. <i>Physical Review Letters</i> , 2020, 125, 017203.	2.9	72
24	Temperature dependence of spin-orbit effective fields in Pt/GdFeCo bilayers. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	66
25	Correlation between compensation temperatures of magnetization and angular momentum in GdFeCo ferrimagnets. <i>Physical Review B</i> , 2018, 97, .	1.1	64
26	Correlation of the Dzyaloshinskiï€Moriya interaction with Heisenberg exchange and orbital asphericity. <i>Nature Communications</i> , 2018, 9, 1648.	5.8	60
27	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. <i>Physical Review Letters</i> , 2019, 122, 127203.	2.9	60
28	Magnetic field insensitivity of magnetic domain wall velocity induced by electrical current in Co/Ni nanowire. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	57
29	Switchable giant nonreciprocal frequency shift of propagating spin waves in synthetic antiferromagnets. <i>Science Advances</i> , 2020, 6, eaaz6931.	4.7	57
30	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. <i>Nature Electronics</i> , 2019, 2, 389-393.	13.1	55
31	Hugoniot measurement of diamond under laser shock compression up to 2TPa. <i>Physics of Plasmas</i> , 2006, 13, 052705.	0.7	53
32	Current-induced magnetic domain wall motion below intrinsic threshold triggered by Walker breakdown. <i>Nature Nanotechnology</i> , 2012, 7, 635-639.	15.6	52
33	Geometrical confinement of a domain wall in a nanocontact between two NiFe wires. <i>Journal of Applied Physics</i> , 2002, 91, 3468-3470.	1.1	51
34	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. <i>Physical Review B</i> , 2017, 96, .	1.1	50
35	Antiferromagnet-mediated spin transfer between a metal and a ferromagnet. <i>Physical Review B</i> , 2015, 92, .	1.1	49
36	Modulation of the magnetic domain size induced by an electric field. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	49

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37	Spin-Orbit-Torque Memory Operation of Synthetic Antiferromagnets. <i>Physical Review Letters</i> , 2018, 121, 167202.	2.9	49
38	Current-driven domain-wall motion in magnetic wires with asymmetric notches. <i>Applied Physics Letters</i> , 2005, 87, 243108.	1.5	48
39	Field-free superconducting diode effect in noncentrosymmetric superconductor/ferromagnet multilayers. <i>Nature Nanotechnology</i> , 2022, 17, 823-828.	15.6	45
40	Two-barrier stability that allows low-power operation in current-induced domain-wall motion. <i>Nature Communications</i> , 2013, 4, 2011.	5.8	43
41	Temperature dependence of carrier spin polarization determined from current-induced domain wall motion in a Co/Ni nanowire. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	39
42	Electric Field Modulation of Magnetic Anisotropy in MgO/Co/Pt Structure. <i>Applied Physics Express</i> , 2013, 6, 073004.	1.1	38
43	Intrinsic and extrinsic antiferromagnetic damping in NiO. <i>Physical Review Materials</i> , 2019, 3, .	0.9	38
44	Direct visualization of the three-dimensional shape of skyrmion strings in a noncentrosymmetric magnet. <i>Nature Materials</i> , 2022, 21, 181-187.	13.3	37
45	Magnetic droplet nucleation with a homochiral Néel domain wall. <i>Physical Review B</i> , 2017, 95, .	1.1	36
46	Influence of Instabilities on High-Field Magnetic Domain Wall Velocity in (Co/Ni) Nanostrips. <i>Applied Physics Express</i> , 2011, 4, 113001.	1.1	31
47	Magnetic Moment Orientation-Dependent Spin Dissipation in Antiferromagnets. <i>Physical Review Letters</i> , 2017, 119, 267204.	2.9	30
48	Chiral magnetic domain wall in ferrimagnetic GdFeCo wires. <i>Applied Physics Express</i> , 2015, 8, 073001.	1.1	29
49	Current-Induced Domain Wall Motion in Perpendicularly Magnetized Co/Ni Nanowire under In-Plane Magnetic Fields. <i>Applied Physics Express</i> , 2012, 5, 063001.	1.1	27
50	Transition in mechanism for current-driven magnetic domain wall dynamics. <i>Applied Physics Express</i> , 2014, 7, 053006.	1.1	27
51	Microscopic Investigation into the Electric Field Effect on Proximity-Induced Magnetism in Pt. <i>Physical Review Letters</i> , 2018, 120, 157203.	2.9	26
52	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. <i>Applied Physics Express</i> , 2019, 12, 093001.	1.1	24
53	Resistive detection of the Néel temperature of Cr ₂ O ₃ thin films. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	23
54	Principles of stroboscopic detection of nuclear forward-scattered synchrotron radiation. <i>Physical Review B</i> , 2003, 67, .	1.1	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, .	1.1	21
56	Interfacial Dzyaloshinskii-Moriya interaction studied by time-resolved scanning Kerr microscopy. Physical Review B, 2015, 92, .	1.1	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.	1.1	20
58	Linewidth broadening of optical precession mode in synthetic antiferromagnet. Applied Physics Express, 2014, 7, 063010.	1.1	19
59	Electric-field-induced modulation of the anomalous Hall effect in a heterostructured itinerant ferromagnet SrRuO_3 . Physical Review B, 2017, 96, .	1.1	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, .	1.1	18
61	Unconventional magnetoresistance induced by spinmagnetism in GdFeCo. Physical Review B, 2021, 103, .	1.1	17
62	Observation of nonreciprocal superconducting critical field. Applied Physics Express, 2021, 14, 073003.	1.1	17
63	Dzyaloshinskii-Moriya interaction in noncentrosymmetric superlattices. Npj Computational Materials, 2021, 7, .	3.5	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, .	1.1	16
65	Enhanced perpendicular magnetocrystalline anisotropy energy in an artificial magnetic material with bulk spin-momentum coupling. Physical Review B, 2019, 99, .	1.1	16
66	Laser stimulated THz emission from Pt/CoO/FeCoB. Applied Physics Letters, 2020, 117, .	1.5	16
67	Current-Induced Magnetic Domain Wall Motion in Co/Ni Nanowire at Low Temperature. Applied Physics Express, 2011, 4, 063003.	1.1	15
68	Precise control of magnetic domain wall displacement by a nanosecond current pulse in Co/Ni nanowires. Applied Physics Express, 2015, 8, 073008.	1.1	15
69	Interfacial Dzyaloshinskii-Moriya interaction and orbital magnetic moments of metallic multilayer films. AIP Advances, 2017, 7, .	0.6	15
70	Effect of spin Hall torque on current-induced precessional domain wall motion. Applied Physics Express, 2014, 7, 033005.	1.1	14
71	Current-driven magnetic domain wall motion and its real-time detection. Japanese Journal of Applied Physics, 2017, 56, 0802A4.	0.8	14
72	Spin current transmission in polycrystalline NiO films. Applied Physics Express, 2018, 11, 073003.	1.1	12

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73	Tailoring THz antiferromagnetic resonance of NiO by cation substitution. Physical Review Materials, 2020, 4, .	0.9	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.	0.5	11
76	Switching local magnetization by electric-field-induced domain wall motion. Applied Physics Express, 2016, 9, 063004.	1.1	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.	1.5	9
78	Isomer shift determination in Eu compounds using stroboscopic detection of synchrotron radiation. Physical Review B, 2004, 70, .	1.1	8
79	Different stochastic behaviors for magnetic field and current in domain wall creep motion. Applied Physics Express, 2014, 7, 053005.	1.1	8
80	Ferromagnetic resonance measurements in sub-nanometer Fe films. Applied Physics Express, 2015, 8, 073003.	1.1	8
81	Fabrication of Noncentrosymmetric Nb/V/Ta Superlattice and its Superconductivity. Journal of the Magnetism Society of Japan, 2019, 43, 17-20.	0.5	8
82	Magnetic Microscopy Using a Circularly Polarized Hard-X-ray Nanoprobe at SPring-8. Synchrotron Radiation News, 2020, 33, 4-11.	0.2	8
83	Homodyne detection of ferromagnetic resonance by a non-uniform radio-frequency excitation current. Applied Physics Express, 2018, 11, 053008.	1.1	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.	0.5	7
85	Interfacial Dzyaloshinskii-Moriya interaction and dampinglike spin-orbit torque in Co/Pt magnetic multilayers. Physical Review B, 2021, 103, .		
86	Spin Wave Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. Journal of the Magnetism Society of Japan, 2021, 45, 25-29.	0.5	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.	1.0	6
88	Magnetic domain writing defined by electrical gating in Pt/Co film. Applied Physics Letters, 2018, 113, .	1.5	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.	0.3	5
90	Correlation between magnetic properties and depinning field in field-driven domain wall dynamics in GdFeCo ferrimagnets. Applied Physics Letters, 2018, 112, .	1.5	5

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91	Choking Nonlocal Magnetic Damping in Exchange-Biased Ferromagnets. <i>Physical Review Applied</i> , 2019, 11, .	1.5	5
92	Imaging of caustic-like spin wave beams using optical heterodyne detection. <i>Applied Physics Letters</i> , 2020, 116, 192411.	1.5	5
93	Polarization-Selective Excitation of Antiferromagnetic Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Physical Review Applied</i> , 2022, 18, .	1.5	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.	1.1	4
96	Mössbauer and TDPAC Studies on Fe/Mo Multilayers. <i>Hyperfine Interactions</i> , 2004, 158, 145-149.	0.2	4
97	Localized precessional mode of domain wall controlled by magnetic field and dc current. <i>Applied Physics Express</i> , 2015, 8, 023003.	1.1	4
98	Effect of depinning field on determination of angular-momentum-compensation temperature of ferrimagnets. <i>Applied Physics Express</i> , 2018, 11, 063001.	1.1	4
99	Crystal orientation dependence of spin Hall angle in epitaxial Pt/FeNi systems. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	4
100	Orbital-dependent electric field effect on magnetism in ultrathin cobalt. <i>Physical Review B</i> , 2020, 102, .	1.1	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.	0.5	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.	0.8	3
103	Control of antiferromagnetic resonance and the Morin temperature in cation doped $\text{Fe}_2\text{M}_x\text{O}_3$ ($M = \text{Al, Ru, Rh, and In}$). <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3
104	Long-distance spin current transmission in single-crystalline NiO thin films. <i>Applied Physics Express</i> , 2021, 14, 123001.	1.1	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.	0.6	3
106	XMCD and <i>in situ</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.	1.3	3
107	Magnetic soliton rectifier via phase synchronization. <i>Physical Review B</i> , 2020, 102, .	1.1	2
108	Magnetic damping enhancement in L1 ₂ -ordered Mn ₃ Ir/Fe ₂₀ Ni ₈₀ bilayers. <i>Applied Physics Express</i> , 2020, 13, 073001.	1.1	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.	1.0	2
110	Enhancement of spin wave group velocity in ferrimagnets with angular momentum compensation. Applied Physics Express, 2020, 13, 063003.	1.1	1
111	Field-driven domain wall creep motion in ferrimagnetic Tb/CoFeB/MgO microwires. Japanese Journal of Applied Physics, 2021, 60, 020902.	0.8	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, .	1.5	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.	0.5	1
114	Optical polarimetric measurement of surface acoustic waves. Applied Physics Letters, 2021, 119, 181106.	1.5	1
115	Chromatic Aberration Effect in Refraction of Spin Waves. Journal of the Magnetics Society of Japan, 2020, 44, 133-136.	0.5	1
116	Inhomogeneous magnetic properties characterized by simultaneous electrical and optical detection of spin-torque ferromagnetic resonance. Applied Physics Letters, 2021, 119, 192409.	1.5	1
117	Observation of temperature-dependent Dzyaloshinskiiâ€Moriya interaction within the 50â€300 K range. Japanese Journal of Applied Physics, 2022, 61, 020901.	0.8	1
118	Firstâ€principles study on electronic structure of fullerene polymers. Surface and Interface Analysis, 2008, 40, 1067-1070.	0.8	0
119	Observation of domain wall segment jump among disorders. Journal of Magnetism and Magnetic Materials, 2020, 511, 166999.	1.0	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.	0.0	0