

Teruo Ono

List of Publications by Year in descending order

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121
papers

7,624
citations

87723

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122
all docs

122
docs citations

122
times ranked

5636
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Observation of temperature-dependent Dzyaloshinskii-Moriya interaction within the 50-300 K range. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 020901.	0.8	1
3	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
4	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.	1.3	3
5	Crystal orientation dependence of spin Hall angle in epitaxial Pt/FeNi systems. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	4
6	Temperature dependence of domain wall creep motion in ferrimagnetic Tb/CoFeB/MgO microwires. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 553, 169251.	1.0	2
7	Ferrimagnetic spintronics. <i>Nature Materials</i> , 2022, 21, 24-34.	13.3	129
8	Spintronic Materials and Their Properties Investigated by Synchrotron Radiation. <i>Vacuum and Surface Science</i> , 2022, 65, 218-223.	0.0	0
9	Field-free superconducting diode effect in noncentrosymmetric superconductor/ferromagnet multilayers. <i>Nature Nanotechnology</i> , 2022, 17, 823-828.	15.6	45
10	Polarization-Selective Excitation of Antiferromagnetic Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Physical Review Applied</i> , 2022, 18, .	1.5	5
11	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
12	Unconventional magnetoresistance induced by spinmagnetism in GdFeCo. <i>Physical Review B</i> , 2021, 103, .	1.1	17
13	Field-driven domain wall creep motion in ferrimagnetic Tb/CoFeB/MgO microwires. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 020902.	0.8	1
14	Interfacial Dzyaloshinskii-Moriya interaction and dampinglike spin-orbit torque in $\text{Co}/\text{MgO}/\text{Co}$ magnetic multilayers. <i>Physical Review B</i> , 2021, 103, .		
15	Spin Wave Resonance in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Journal of the Magnetism Society of Japan</i> , 2021, 45, 25-29.	0.5	7
16	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
17	Observation of nonreciprocal superconducting critical field. <i>Applied Physics Express</i> , 2021, 14, 073003.	1.1	17
18	Control of antiferromagnetic resonance and the Morin temperature in cation doped $\text{Fe}_2\text{M}_2\text{O}_3$ ($M = \text{Al, Ru, Rh, and In}$). <i>Applied Physics Letters</i> , 2021, 119, .	1.5	3

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19	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
20	Estimation of Magnetic Domain Size in Chiral Antiferromagnet Mn ₃ Ir by the Anomalous Hall Measurements. Journal of the Magnetism Society of Japan, 2021, 45, 75-78.	0.5	1
21	Dzyaloshinskii–Moriya interaction in noncentrosymmetric superlattices. Npj Computational Materials, 2021, 7, .	3.5	17
22	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
23	Optical polarimetric measurement of surface acoustic waves. Applied Physics Letters, 2021, 119, 181106.	1.5	1
24	Long-distance spin current transmission in single-crystalline NiO thin films. Applied Physics Express, 2021, 14, 123001.	1.1	3
25	Inhomogeneous magnetic properties characterized by simultaneous electrical and optical detection of spin-torque ferromagnetic resonance. Applied Physics Letters, 2021, 119, 192409.	1.5	1
26	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
27	Laser stimulated THz emission from Pt/CoO/FeCoB. Applied Physics Letters, 2020, 117, .	1.5	16
28	Orbital-dependent electric field effect on magnetism in ultrathin cobalt. Physical Review B, 2020, 102, .	1.1	3
29	Observation of superconducting diode effect. Nature, 2020, 584, 373-376.	13.7	211
30	Magnetic soliton rectifier via phase synchronization. Physical Review B, 2020, 102, .	1.1	2
31	Enhancement of spin wave group velocity in ferrimagnets with angular momentum compensation. Applied Physics Express, 2020, 13, 063003.	1.1	1
32	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
33	Imaging of caustic-like spin wave beams using optical heterodyne detection. Applied Physics Letters, 2020, 116, 192411.	1.5	5
34	Switchable giant nonreciprocal frequency shift of propagating spin waves in synthetic antiferromagnets. Science Advances, 2020, 6, eaaz6931.	4.7	57
35	Observation of domain wall segment jump among disorders. Journal of Magnetism and Magnetic Materials, 2020, 511, 166999.	1.0	0
36	Tunable Magnon-Magnon Coupling Mediated by Dynamic Dipolar Interaction in Synthetic Antiferromagnets. Physical Review Letters, 2020, 125, 017203.	2.9	72

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37	Magnetic damping enhancement in L1 ₂ -ordered Mn ₃ Ir/Fe ₂₀ Ni ₈₀ bilayers. Applied Physics Express, 2020, 13, 073001.	1.1	2
38	Magnetic Microscopy Using a Circularly Polarized Hard-X-ray Nanoprobe at SPring-8. Synchrotron Radiation News, 2020, 33, 4-11.	0.2	8
39	Tailoring THz antiferromagnetic resonance of NiO by cation substitution. Physical Review Materials, 2020, 4, .	0.9	12
40	Chromatic Aberration Effect in Refraction of Spin Waves. Journal of the Magnetics Society of Japan, 2020, 44, 133-136.	0.5	1
41	Temperature dependence of magnetic resonance in ferrimagnetic GdFeCo alloys. Applied Physics Express, 2019, 12, 093001.	1.1	24
42	Spin-transfer torques for domain wall motion in antiferromagnetically coupled ferrimagnets. Nature Electronics, 2019, 2, 389-393.	13.1	55
43	Vanishing skyrmion Hall effect at the angular momentum compensation temperature of a ferrimagnet. Nature Nanotechnology, 2019, 14, 232-236.	15.6	137
44	Resistive detection of the Néel temperature of Cr ₂ O ₃ thin films. Applied Physics Letters, 2019, 114, .	1.5	23
45	Bulk Dzyaloshinskii-Moriya interaction in amorphous ferrimagnetic alloys. Nature Materials, 2019, 18, 685-690.	13.3	116
46	Enhanced perpendicular magnetocrystalline anisotropy energy in an artificial magnetic material with bulk spin-momentum coupling. Physical Review B, 2019, 99, .	1.1	16
47	Low Magnetic Damping of Ferrimagnetic GdFeCo Alloys. Physical Review Letters, 2019, 122, 127203.	2.9	60
48	Fabrication of Noncentrosymmetric Nb/V/Ta Superlattice and its Superconductivity. Journal of the Magnetics Society of Japan, 2019, 43, 17-20.	0.5	8
49	Choking Nonlocal Magnetic Damping in Exchange-Biased Ferromagnets. Physical Review Applied, 2019, 11, .	1.5	5
50	Intrinsic and extrinsic antiferromagnetic damping in NiO. Physical Review Materials, 2019, 3, .	0.9	38
51	Microscopic Investigation into the Electric Field Effect on Proximity-Induced Magnetism in Pt. Physical Review Letters, 2018, 120, 157203.	2.9	26
52	Antiferromagnetic spintronics. Reviews of Modern Physics, 2018, 90, .	16.4	1,536
53	Homodyne detection of ferromagnetic resonance by a non-uniform radio-frequency excitation current. Applied Physics Express, 2018, 11, 053008.	1.1	7
54	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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55	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
56	Magnetic domain writing defined by electrical gating in Pt/Co film. Applied Physics Letters, 2018, 113, .	1.5	6
57	Spin torque control of antiferromagnetic moments in NiO. Scientific Reports, 2018, 8, 14167.	1.6	190
58	Spin-Orbit-Torque Memory Operation of Synthetic Antiferromagnets. Physical Review Letters, 2018, 121, 167202.	2.9	49
59	Spin current transmission in polycrystalline NiO films. Applied Physics Express, 2018, 11, 073003.	1.1	12
60	Effect of depinning field on determination of angular-momentum-compensation temperature of ferrimagnets. Applied Physics Express, 2018, 11, 063001.	1.1	4
61	Correlation of the Dzyaloshinskii-Moriya interaction with Heisenberg exchange and orbital asphericity. Nature Communications, 2018, 9, 1648.	5.8	60
62	Correlation between compensation temperatures of magnetization and angular momentum in GdFeCo ferrimagnets. Physical Review B, 2018, 97, .	1.1	64
63	Temperature dependence of spin-orbit effective fields in Pt/GdFeCo bilayers. Applied Physics Letters, 2017, 110, .	1.5	66
64	Current-driven magnetic domain wall motion and its real-time detection. Japanese Journal of Applied Physics, 2017, 56, 0802A4.	0.8	14
65	Interfacial Dzyaloshinskii-Moriya interaction and orbital magnetic moments of metallic multilayer films. AIP Advances, 2017, 7, .	0.6	15
66	Coherent terahertz spin-wave emission associated with ferrimagnetic domain wall dynamics. Physical Review B, 2017, 96, .	1.1	50
67	Fast domain wall motion in the vicinity of the angular momentum compensation temperature of ferrimagnets. Nature Materials, 2017, 16, 1187-1192.	13.3	321
68	Electric-field-induced modulation of the anomalous Hall effect in a heterostructured itinerant ferromagnet SrRuO_3 . Physical Review B, 2017, 96, .	1.1	19
69	Magnetic droplet nucleation with a homochiral Néel domain wall. Physical Review B, 2017, 95, .	1.1	36
70	Magnetic Moment Orientation-Dependent Spin Dissipation in Antiferromagnets. Physical Review Letters, 2017, 119, 267204.	2.9	30
71	Modulation of the magnetic domain size induced by an electric field. Applied Physics Letters, 2016, 109, .	1.5	49
72	Switching local magnetization by electric-field-induced domain wall motion. Applied Physics Express, 2016, 9, 063004.	1.1	10

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73	Soliton-like magnetic domain wall motion induced by the interfacial Dzyaloshinskii-Moriya interaction. <i>Nature Physics</i> , 2016, 12, 157-161.	6.5	125
74	Antiferromagnet-mediated spin transfer between a metal and a ferromagnet. <i>Physical Review B</i> , 2015, 92, .	1.1	49
75	Sequential write-read operations in FeRh antiferromagnetic memory. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	79
76	Anti-damping spin transfer torque through epitaxial nickel oxide. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	116
77	Interfacial Dzyaloshinskii-Moriya interaction studied by time-resolved scanning Kerr microscopy. <i>Physical Review B</i> , 2015, 92, .	1.1	21
78	Localized precessional mode of domain wall controlled by magnetic field and dc current. <i>Applied Physics Express</i> , 2015, 8, 023003.	1.1	4
79	Resonant spin-wave modes in trilayered magnetic nanowires studied in the parallel and antiparallel ground state. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 384, 45-48.	1.0	6
80	Ferromagnetic resonance measurements in sub-nanometer Fe films. <i>Applied Physics Express</i> , 2015, 8, 073003.	1.1	8
81	Chiral magnetic domain wall in ferrimagnetic GdFeCo wires. <i>Applied Physics Express</i> , 2015, 8, 073001.	1.1	29
82	Precise control of magnetic domain wall displacement by a nanosecond current pulse in Co/Ni nanowires. <i>Applied Physics Express</i> , 2015, 8, 073008.	1.1	15
83	In-plane field-driven crossover in the spin-torque mechanism acting on magnetic domain walls in Co/Ni. <i>Physical Review B</i> , 2015, 91, .	1.1	16
84	Linewidth broadening of optical precession mode in synthetic antiferromagnet. <i>Applied Physics Express</i> , 2014, 7, 063010.	1.1	19
85	Different stochastic behaviors for magnetic field and current in domain wall creep motion. <i>Applied Physics Express</i> , 2014, 7, 053005.	1.1	8
86	Effect of spin Hall torque on current-induced precessional domain wall motion. <i>Applied Physics Express</i> , 2014, 7, 033005.	1.1	14
87	Transition in mechanism for current-driven magnetic domain wall dynamics. <i>Applied Physics Express</i> , 2014, 7, 053006.	1.1	27
88	Domain wall pinning by a stray field from NiFe on a Co/Ni nanowire. <i>Journal of the Korean Physical Society</i> , 2013, 63, 608-611.	0.3	5
89	Coupled spin waves in trilayer films and nanostripes of permalloy separated by nonmagnetic spacers: Brillouin light scattering and theory. <i>Physical Review B</i> , 2013, 87, .	1.1	18
90	Electric Field Modulation of Magnetic Anisotropy in MgO/Co/Pt Structure. <i>Applied Physics Express</i> , 2013, 6, 073004.	1.1	38

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91	Two-barrier stability that allows low-power operation in current-induced domain-wall motion. Nature Communications, 2013, 4, 2011.	5.8	43
92	Electrical control of Curie temperature in cobalt using an ionic liquid film. Applied Physics Letters, 2012, 100, .	1.5	128
93	Current-Induced Domain Wall Motion in Perpendicularly Magnetized Co/Ni Nanowire under In-Plane Magnetic Fields. Applied Physics Express, 2012, 5, 063001.	1.1	27
94	Current-induced magnetic domain wall motion below intrinsic threshold triggered by Walker breakdown. Nature Nanotechnology, 2012, 7, 635-639.	15.6	52
95	Temperature dependence of carrier spin polarization determined from current-induced domain wall motion in a Co/Ni nanowire. Applied Physics Letters, 2012, 100, .	1.5	39
96	Spin waves in perpendicularly magnetized Co/Ni(111) multilayers in the presence of magnetic domains. Physical Review B, 2012, 86, .	1.1	21
97	Time-Domain Measurement of Current-Induced Spin Wave Dynamics. Physical Review Letters, 2012, 108, 017203.	2.9	72
98	Influence of Instabilities on High-Field Magnetic Domain Wall Velocity in (Co/Ni) Nanostrips. Applied Physics Express, 2011, 4, 113001.	1.1	31
99	Current-Induced Magnetic Domain Wall Motion in Co/Ni Nanowire at Low Temperature. Applied Physics Express, 2011, 4, 063003.	1.1	15
100	Magnetic field insensitivity of magnetic domain wall velocity induced by electrical current in Co/Ni nanowire. Applied Physics Letters, 2011, 98, .	1.5	57
101	Electrical control of the ferromagnetic phase transition in cobalt at room temperature. Nature Materials, 2011, 10, 853-856.	13.3	398
102	Observation of the intrinsic pinning of a magnetic domain wall in a ferromagnetic nanowire. Nature Materials, 2011, 10, 194-197.	13.3	302
103	Nonreciprocal emission of spin-wave packet in FeNi film. Applied Physics Letters, 2010, 97, .	1.5	100
104	Control of Multiple Magnetic Domain Walls by Current in a Co/Ni Nano-Wire. Applied Physics Express, 2010, 3, 073004.	1.1	108
105	First-principles study on electronic structure of fullerene polymers. Surface and Interface Analysis, 2008, 40, 1067-1070.	0.8	0
106	Hugoniot measurement of diamond under laser shock compression up to 2TPa. Physics of Plasmas, 2006, 13, 052705.	0.7	53
107	Current-driven domain-wall motion in magnetic wires with asymmetric notches. Applied Physics Letters, 2005, 87, 243108.	1.5	48
108	Isomer shift determination in Eu compounds using stroboscopic detection of synchrotron radiation. Physical Review B, 2004, 70, .	1.1	8

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109	Mössbauer and TDPAC Studies on Fe/Mo Multilayers. <i>Hyperfine Interactions</i> , 2004, 158, 145-149.	0.2	4
110	Real-Space Observation of Current-Driven Domain Wall Motion in Submicron Magnetic Wires. <i>Physical Review Letters</i> , 2004, 92, 077205.	2.9	883
111	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
112	Principles of stroboscopic detection of nuclear forward-scattered synchrotron radiation. <i>Physical Review B</i> , 2003, 67, .	1.1	22
113	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
114	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
115	Magnetic Properties of Nanoscale Wire and Dot Systems. <i>Physica Status Solidi A</i> , 2002, 189, 567-574.	1.7	4
116	RESISTANCE OF GEOMETRICALLY CONFINED MAGNETIC DOMAIN WALL. , 2002, , .		0
117	Propagation of a Magnetic Domain Wall in a Submicrometer Magnetic Wire. <i>Science</i> , 1999, 284, 468-470.	6.0	354
118	Magnetization reversal in submicron magnetic wire studied by using giant magnetoresistance effect. <i>Applied Physics Letters</i> , 1998, 72, 1116-1117.	1.5	93
119	Development of a curved multi-tube (CMT) catheter for percutaneous umbilical blood sampling and control methods of CMT catheters for solid organs. , 0, , .		11
120	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
121	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