

Yoshihiko Togawa

List of Publications by Year in descending order

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114
papers

2,895
citations

201385

27
h-index

174990

52
g-index

116
all docs

116
docs citations

116
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral Magnetic Soliton Lattice on a Chiral Helimagnet. Physical Review Letters, 2012, 108, 107202.	2.9	430
2	Symmetry, Structure, and Dynamics of Monoaxial Chiral Magnets. Journal of the Physical Society of Japan, 2016, 85, 112001.	0.7	157
3	Double-biprism electron interferometry. Applied Physics Letters, 2004, 84, 3229-3231.	1.5	139
4	Interlayer Magnetoresistance due to Chiral Soliton Lattice Formation in Hexagonal Chiral Magnet $\chi_{\text{CrNb}}^3 S$. Physical Review Letters, 2013, 111, 197204.	2.9	124
5	Laser-Induced Skyrmion Writing and Erasing in an Ultrafast Cryo-Lorentz Transmission Electron Microscope. Physical Review Letters, 2018, 120, 117201.	2.9	115
6	Chiral Surface Twists and Skyrmion Stability in Nanolayers of Cubic Helimagnets. Physical Review Letters, 2016, 117, 087202.	2.9	109
7	Direct Observation of Rectified Motion of Vortices in a Niobium Superconductor. Physical Review Letters, 2005, 95, 087002.	2.9	106
8	Magnetic soliton confinement and discretization effects arising from macroscopic coherence in a chiral spin soliton lattice. Physical Review B, 2015, 92, .	1.1	102
9	Chirality-Induced Spin-Polarized State of a Chiral Crystal $\chi_{\text{CrNb}}^3 S$. Physical Review Letters, 2020, 124, 166602.	2.9	102
10	Li ₂ S nanocomposites underlying high-capacity and cycling stability in all-solid-state lithium-sulfur batteries. Journal of Power Sources, 2015, 274, 471-476.	4.0	88
11	First-Order Vortex-Lattice Phase Transition in (La _{1-x} Sr _x) ₂ CuO ₄ Single Crystals: Universal Scaling of the Transition Lines in High-Temperature Superconductors. Physical Review Letters, 1998, 80, 4297-4300.	2.9	83
12	Internal structure of hexagonal skyrmion lattices in cubic helimagnets. New Journal of Physics, 2016, 18, 095004.	1.2	82
13	Direct Observation of the Washboard Noise of a Driven Vortex Lattice in a High-Temperature Superconductor, Bi ₂ Sr ₂ CaCu ₂ O _y . Physical Review Letters, 2000, 85, 3716-3719.	2.9	73
14	Anomalous Nonreciprocal Electrical Transport on Chiral Magnetic Order. Physical Review Letters, 2019, 122, 057206.	2.9	72
15	Current-Excited Magnetization Dynamics in Narrow Ferromagnetic Wires. Japanese Journal of Applied Physics, 2006, 45, L683-L685.	0.8	55
16	Chirality-Induced Spin Polarization over Macroscopic Distances in Chiral Disilicide Crystals. Physical Review Letters, 2021, 127, 126602.	2.9	53
17	Magnetization and resistivity measurements of the first-order vortex phase transition in (La _{1-x} Sr _x) ₂ CuO ₄ . Physical Review B, 2000, 61, 1610-1617.	1.1	47
18	Magnetic solitons and magnetic phase diagram of the hexagonal chiral crystal $\chi_{\text{CrNb}}^3 S$ in oblique magnetic fields. Physical Review B, 2017, 96, .	1.1	47

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19	Discrete Change in Magnetization by Chiral Soliton Lattice Formation in the Chiral Magnet $\text{Cr}_{1/3}\text{NbS}_2$. Journal of the Physical Society of Japan, 2016, 85, 013707.	0.7	44
20	Collective resonant dynamics of the chiral spin soliton lattice in a monoaxial chiral magnetic crystal. Physical Review B, 2017, 95, .	1.1	35
21	Incommensurate-commensurate transitions in the monoaxial chiral helimagnet driven by the magnetic field. Physical Review B, 2016, 93, .	1.1	33
22	Current-excited magnetization reversal under in-plane magnetic field in a nanoscaled ferromagnetic wire. Applied Physics Letters, 2008, 92, .	1.5	32
23	Roles of Superchirality and Interference in Chiral Plasmonic Biodetection. Journal of Physical Chemistry C, 2019, 123, 15195-15203.	1.5	32
24	Current-induced bulk magnetization of a chiral crystal CrNb_3S_6 . Applied Physics Letters, 2020, 117, .	1.5	32
25	Optical system for double-biprism electron holography. Journal of Electron Microscopy, 2005, 54, 19-27.	0.9	30
26	Intrinsic hysteresis due to the surface barrier for chiral solitons in monoaxial chiral helimagnets. Physical Review B, 2018, 97, .	1.1	30
27	Structure Analyses of Amorphous MoS_2 ; Active Materials in All-solid-state Lithium Batteries. Electrochemistry, 2015, 83, 889-893.	0.6	29
28	Anomalous Temperature Behavior of the Chiral Spin Helix in CrNb_3S_6 Thin Lamellae. Physical Review Letters, 2019, 122, 017204.	1.1	29
29	Geometrical protection of topological magnetic solitons in microprocessed chiral magnets. Physical Review B, 2018, 97, .	1.1	27
30	Electrical transport properties of micrometer-sized samples of the rare-earth chiral magnet YbNi_3S_7 . Physical Review B, 2018, 97, .	1.1	27
31	Order and disorder in the magnetization of the chiral crystal CrNb_3S_6 . Physical Review B, 2018, 97, .	1.1	27
32	Domain Nucleation and Annihilation in Uniformly Magnetized State under Current Pulses in Narrow Ferromagnetic Wires. Japanese Journal of Applied Physics, 2006, 45, L1322-L1324.	0.8	26
33	Location-sensitive measurement of the local fluctuation of driven vortex density in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$. Physical Review B, 2002, 65, .	1.1	25
34	Size dependence of discrete change in magnetization in single crystal of chiral magnet $\text{Cr}_{1/3}\text{NbS}_2$. Journal of Applied Physics, 2016, 120, .	1.1	24
35	Observation of orbital angular momentum in the chiral magnet CrNb_3S_6 by soft x-ray magnetic circular dichroism. Physical Review B, 2019, 99, .	1.1	22
36	Electrochemical properties of all-solid-state lithium batteries with amorphous titanium sulfide electrodes prepared by mechanical milling. Journal of Solid State Electrochemistry, 2013, 17, 2697-2701.	1.2	21

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37	Chiral solitons in monoaxial chiral magnets in tilted magnetic field. <i>Physical Review B</i> , 2018, 98, .	1.1	21
38	Detection of chirality-induced spin polarization over millimeters in polycrystalline bulk samples of chiral disilicides NbSi ₂ and TaSi ₂ . <i>Applied Physics Letters</i> , 2021, 119, .	1.5	21
39	Triple-biprism electron interferometry. <i>Journal of Applied Physics</i> , 2006, 99, 113502.	1.1	18
40	High-resolution observation by double-biprism electron holography. <i>Journal of Applied Physics</i> , 2004, 96, 6097-6102.	1.1	17
41	Preparation of amorphous TiS _x thin film electrodes by the PLD method and their application to all-solid-state lithium secondary batteries. <i>Journal of Materials Science</i> , 2012, 47, 6601-6606.	1.7	17
42	Tailored resonance in micrometer-sized monoaxial chiral helimagnets. <i>Physical Review B</i> , 2018, 98, .	1.1	17
43	Ferromagnetic microstructures in the ferromagnetic metallic phase of La _{0.825} Sr _{0.175} MnO ₃ . <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	15
44	Unconventional Magnetic Domain Structure in the Ferromagnetic Phase of MnP Single Crystals. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 043701.	0.7	15
45	Magnetic Resonance in the Chiral Helimagnet CrNb ₃ S ₆ . <i>Physics Procedia</i> , 2015, 75, 926-931.	1.2	15
46	Theory of standing spin waves in a finite-size chiral spin soliton lattice. <i>Physical Review B</i> , 2019, 100, .	1.1	15
47	Small angle electron diffraction and deflection. <i>AIP Advances</i> , 2012, 2, .	0.6	14
48	Anomalous spiked structures in ESR signals from the chiral helimagnet CrNb ₃ S ₆ . <i>Physical Review B</i> , 2019, 100, .	1.1	14
49	Small-angle electron scattering of magnetic fine structures. <i>Microscopy (Oxford, England)</i> , 2013, 62, S75-S86.	0.7	13
50	Switching behavior of the magnetic resonance in a monoaxial chiral magnetic crystal CrNb ₃ S ₆ . <i>Applied Physics Letters</i> , 2019, 115, 242401.	1.5	11
51	Tensile deformations of the magnetic chiral soliton lattice probed by Lorentz transmission electron microscopy. <i>Physical Review B</i> , 2020, 101, .	1.1	11
52	Field driven recovery of the collective spin dynamics of the chiral soliton lattice. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	10
53	Formations of Narrow Stripes and Vortex Antivortex Pairs in a Quasi-Two-Dimensional Ferromagnet K ₂ CuF ₄ . <i>Journal of the Physical Society of Japan</i> , 2021, 90, 014702.	0.7	10
54	Small-angle electron scattering from magnetic artificial lattice. <i>Journal of Electron Microscopy</i> , 2012, 61, 401-407.	0.9	9

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55	Effects of chiral helimagnets on vortex states in a superconductor. Superconductor Science and Technology, 2016, 29, 125008.	1.8	8
56	Observation of Collective Resonance Modes in a Chiral Spin Soliton Lattice with Tunable Magnon Dispersion. Physical Review Letters, 2022, 128, .	2.9	8
57	Confirmation of information transfer using lattice images. Applied Physics Letters, 2005, 87, 174101.	1.5	7
58	Variable Interference Azimuth Angle in Double-Biprism Electron Interferometry. Japanese Journal of Applied Physics, 2005, 44, L636-L639.	0.8	6
59	Real-space imaging of ferroelectric and structural antiphase domains in hexagonal YMnO ₃ . Journal of the Korean Physical Society, 2013, 62, 1077-1081.	0.3	6
60	Probing microwave fields and enabling in-situ experiments in a transmission electron microscope. Scientific Reports, 2017, 7, 11064.	1.6	6
61	Direct observations of vortices in a high-T _c superconductor (La _{1-x} Sr _x) ₂ CuO ₄ by scanning SQUID microscopy. Applied Physics A: Materials Science and Processing, 2001, 72, S263-S266.	1.1	5
62	An experimental approach to understand dynamical phase diagram of driven vortices of high-T _c superconductors. Physica C: Superconductivity and Its Applications, 2002, 369, 177-181.	0.6	5
63	Vortex Structure in Chiral Helimagnet /Superconductor Bilayer Structure. Physics Procedia, 2015, 65, 85-88.	1.2	5
64	Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, II: K ₂ CuF ₄ Phase Transition. Microscopy and Microanalysis, 2021, 27, 1123-1132.	0.2	5
65	Chirality-controlled enantiopure crystal growth of a transition metal monosilicide by a floating zone method. Japanese Journal of Applied Physics, 0, , .	0.8	5
66	Site Sensitive Measurement of Local Fluctuation of Driven Vortex Density in Bi ₂ Sr ₂ CaCu ₂ O _y . Journal of Low Temperature Physics, 1999, 117, 1329-1333.	0.6	4
67	Magnetic chessboard-type nanodomains in Mn-doped CoFe ₂ O ₄ . IOP Conference Series: Materials Science and Engineering, 2011, 18, 092052.	0.3	4
68	Dependence of vortex states in superconductors on a chiral helimagnet and an applied magnetic field. Physica C: Superconductivity and Its Applications, 2016, 530, 51-54.	0.6	4
69	Anisotropic microwave propagation in a reconfigurable chiral spin soliton lattice. Physical Review B, 2021, 104, .	1.1	4
70	In-Plane Fourfold Symmetry of the Upper Critical Field Observed in La(Sr) ₂₁₄ Single Crystals. Journal of Low Temperature Physics, 1999, 117, 551-555.	0.6	3
71	Vortex Phase Transition and Vortex State in (La _{0.954} Sr _{0.046}) ₂ CuO ₄ Single Crystals. Journal of Low Temperature Physics, 1999, 117, 1399-1403.	0.6	3
72	Direct observations of vortices in Bi ₂₂₁₂ single crystals by scanning SQUID microscopy. Superconductor Science and Technology, 2001, 14, 1124-1127.	1.8	3

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73	Profile structure of magnetic flux lines in type-II superconductor from a rectangular electron hologram. <i>Journal of Electron Microscopy</i> , 2003, 52, 369-373.	0.9	3
74	Rectified motion of vortices in a niobium superconductor observed by Lorentz microscopy. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 426-431, 141-146.	0.6	3
75	Magnetic field dependence of most stable vortex states in the chiral helimagnet / superconductor bilayer system. <i>Journal of Physics: Conference Series</i> , 2017, 871, 012026.	0.3	3
76	Thin film growth of heavy fermion chiral magnet YbNi ₃ Al ₉ . <i>Applied Physics Letters</i> , 2021, 118, 102402.	1.5	3
77	Metallic Transport in Monolayer and Multilayer Molybdenum Disulfides by Molecular Surface Charge Transfer Doping. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	3
78	Paramagnetic magnetostriction in the chiral magnet CrNb_3S_6 at room temperature. <i>Physical Review B</i> , 2022, 105, .	1.1	3
79	Local Magnetic Properties of Underdoped La _{2-x} Sr _x CuO ₄ Single Crystal Probed by Scanning Superconducting Quantum Interference Device Microscopy. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L1359-L1361.	0.8	2
80	dc interference effects in the dynamic state of vortices in Bi ₂ Sr ₂ CaCu ₂ O _y . <i>Physica C: Superconductivity and Its Applications</i> , 2002, 378-381, 448-452.	0.6	2
81	Dynamic Phase Diagram of Driven Vortices in Bi ₂ Sr ₂ CaCu ₂ O _y . <i>Journal of Low Temperature Physics</i> , 2003, 131, 907-911.	0.6	2
82	Magnetic flux distributions in chiral helimagnet/superconductor bilayers. <i>Physica C: Superconductivity and Its Applications</i> , 2017, 533, 137-143.	0.6	2
83	Vortex states in a superconductor under a helical magnetic field. <i>Journal of Physics: Conference Series</i> , 2017, 807, 052010.	0.3	2
84	Effects of dynamic stress in magnetic superlattice of a monoaxial chiral magnet Cr _{1/3} NbS ₂ . <i>Journal of Physics: Conference Series</i> , 2018, 969, 012132.	0.3	2
85	Dynamics of vortices and quasiparticles in the mixed state of Bi ₂ Sr ₂ CaCu ₂ O _y . <i>Physica C: Superconductivity and Its Applications</i> , 2000, 335, 148-152.	0.6	1
86	Temperature induced normal state redistribution of B _{1g} spectral weight in underdoped La _{2-x} Sr _x CuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 2000, 341-348, 907-908.	0.6	1
87	Dynamic phase diagram of vortices in high-T _c superconductors determined by experimental studies. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 1346-1347.	1.3	1
88	Lorentz microscopy and electron holography studies of current-excited magnetization dynamics in Permalloy nanowires. , 2008, , .		1
89	Magnetic ripple in Permalloy narrow wires investigated by Lorentz microscopy. , 2010, , .		1
90	Magnetic properties and ferromagnetic microstructures in Al-doped La _{1-x} Sr _x MnO ₃ . <i>Journal of Physics: Conference Series</i> , 2010, 200, 012129.	0.3	1

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91	Crystalline analysis of permalloy narrow wires subject to current pulses. Journal of Applied Physics, 2010, 107, 09A326.	1.1	1
92	Control of magnetic domain wall displacement using spin current in small in-plane magnetic field in Permalloy nanowires. Journal Physics D: Applied Physics, 2011, 44, 064015.	1.3	1
93	Doping Effect on Interlocked Ferroelectric and Structural Antiphase Domains in YMnO_3 . Japanese Journal of Applied Physics, 2012, 51, 09LE09.	0.8	1
94	Phase Transition of Vortex States in Two-Dimensional Superconductors under a Oscillating Magnetic Field from the Chiral Helimagnet. Journal of the Physical Society of Japan, 2018, 87, 084701.	0.7	1
95	Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, I: Theory and Analysis. Microscopy and Microanalysis, 2021, 27, 1113-1122.	0.2	1
96	Novel vortex structures in a three-dimensional superconductor under a helical magnetic field from a chiral helimagnet. Physica C: Superconductivity and Its Applications, 2021, 589, 1353918.	0.6	1
97	Conduction noise in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1215-1216.	0.6	0
98	Bulk nature of broad-band noise in conduction noise spectra of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$. Physica C: Superconductivity and Its Applications, 2001, 357-360, 594-596.	0.6	0
99	Direct observation of rectified motion of vortices by Lorentz microscopy. Pramana - Journal of Physics, 2006, 66, 279-287.	0.9	0
100	Lorentz transmission electron microscopy observation of magnetic domains in $\text{La}_{0.825}\text{Sr}_{0.175}(\text{Mn},\text{Al})\text{O}_3$. Journal of Applied Physics, 2010, 107, 09D306.	1.1	0
101	Spin transport properties in polycrystalline Gd film and strip. , 2010, , .		0
102	Stochastic nature of current-excited magnetic domain and domain wall dynamics microscopically investigated by Lorentz microscopy. , 2010, , .		0
103	Microscopic Analysis of Magnetic Fine Structures Using Small-Angle Electron Scattering Method. Nihon Kessho Gakkaishi, 2013, 55, 121-127.	0.0	0
104	Large enhancement of positive magnetoresistance by Ce doping in Si epitaxial thin films. Applied Physics Letters, 2016, 109, 112101.	1.5	0
105	Vortex structures and configurations in a superconductor under helical magnetic field. AIP Advances, 2018, 8, 101314.	0.6	0
106	Effects of chirality of a helical magnetic field on a superconductor. Journal of Physics: Conference Series, 2018, 1054, 012027.	0.3	0
107	Nontrivial Hall Response of Electrons Surfing on Manganite Thin Films. JPSJ News and Comments, 2018, 15, 06.	0.2	0
108	Spectral properties of chiral electromagnetic near fields created by chiral plasmonic nanostructures. Journal of Physics: Conference Series, 2019, 1220, 012050.	0.3	0

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109	Cryogenic Lorentz TEM study of a Berezinskiiâ€“Kosterlitzâ€“Thouless phase transition in the quasi-two-dimensional ferromagnet K_2CuF_4 . <i>Microscopy and Microanalysis</i> , 2021, 27, 922-923.	0.2	0
110	Ellipsoidal Cycloidal Magnetic Structures in $Cr_{1-x}MoxB_2$ Revealed by Neutron Diffraction and Polarimetry Experiments. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 094711.	0.7	0
111	Variable Interference Azimuth Angle in Double-Biprism Electron Interferometry. <i>Materia Japan</i> , 2006, 45, 888-888.	0.1	0
112	The Second Magnetization Peak Effect Observed in $(La_{1-x}Sr_x)_2CuO_4$ Single Crystals under $H // ab$. , 1999, , 613-616.		0
113	Magnetization and Entropy Changes at the First-Order Phase-Transition of Vortex-Lattice in $(La_{1-x}Sr_x)Tj$ ETQq1 1 0.784314 $\mu gBT / Over$		0
114	Spectral properties of chiral electromagnetic near fields created by chiral plasmonic nanostructures. , 2018, , .		0