

Yoshihiko Togawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6545780/publications.pdf>

Version: 2024-02-01

114
papers

2,895
citations

201575

27
h-index

175177

52
g-index

116
all docs

116
docs citations

116
times ranked

2396
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic Transport in Monolayer and Multilayer Molybdenum Disulfides by Molecular Surface Charge Transfer Doping. ACS Applied Materials & Interfaces, 2022, , .	4.0	3
2	Paramagnetic magnetostriction in the chiral magnet CrNb_3S_6 at room temperature. Physical Review B, 2022, 105, .	1.1	3
3	Observation of Collective Resonance Modes in a Chiral Spin Soliton Lattice with Tunable Magnon Dispersion. Physical Review Letters, 2022, 128, .	2.9	8
4	Thin film growth of heavy fermion chiral magnet YbNi ₃ Al ₉ . Applied Physics Letters, 2021, 118, 102402.	1.5	3
5	Cryogenic Lorentz TEM study of a Berezinskiiâ€“Kosterlitzâ€“Thouless phase transition in the quasi-two-dimensional ferromagnet K ₂ CuF ₄ ?. Microscopy and Microanalysis, 2021, 27, 922-923.	0.2	0
6	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
7	Parallel Mode Differential Phase Contrast in Transmission Electron Microscopy, I: Theory and Analysis. Microscopy and Microanalysis, 2021, 27, 1113-1122.	0.2	1
8	Chirality-Induced Spin Polarization over Macroscopic Distances in Chiral Disilicide Crystals. Physical Review Letters, 2021, 127, 126602.	2.9	53
9	Ellipsoidal Cycloidal Magnetic Structures in Cr ^{1-x} MoxB ₂ Revealed by Neutron Diffraction and Polarimetry Experiments. Journal of the Physical Society of Japan, 2021, 90, 094711.	0.7	0
10	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
11	Formations of Narrow Stripes and Vortexâ€“Antivortex Pairs in a Quasi-Two-Dimensional Ferromagnet K ₂ CuF ₄ . Journal of the Physical Society of Japan, 2021, 90, 014702.	0.7	10
12	Detection of chirality-induced spin polarization over millimeters in polycrystalline bulk samples of chiral disilicides NbSi ₂ and TaSi ₂ . Applied Physics Letters, 2021, 119, .	1.5	21
13	Anisotropic microwave propagation in a reconfigurable chiral spin soliton lattice. Physical Review B, 2021, 104, .	1.1	4
14	Field driven recovery of the collective spin dynamics of the chiral soliton lattice. Applied Physics Letters, 2020, 116, .	1.5	10
15	Current-induced bulk magnetization of a chiral crystal CrNb ₃ S ₆ . Applied Physics Letters, 2020, 117, .	1.5	32
16	Chirality-Induced Spin-Polarized State of a Chiral Crystal CrNb_3S_6 . Physical Review Letters, 2020, 124, 166602.	2.9	10
17	Tensile deformations of the magnetic chiral soliton lattice probed by Lorentz transmission electron microscopy. Physical Review B, 2020, 101, .	1.1	11
18	Theory of standing spin waves in a finite-size chiral spin soliton lattice. Physical Review B, 2019, 100, .	1.1	15

#	ARTICLE	IF	CITATIONS
19	Spectral properties of chiral electromagnetic near fields created by chiral plasmonic nanostructures. Journal of Physics: Conference Series, 2019, 1220, 012050.	0.3	0
20	Anomalous spiked structures in ESR signals from the chiral helimagnet CrNb3S6. Physical Review B, 2019, 100, .	1.1	14
21	Order and disorder in the magnetization of the chiral crystal CrNb_3S_6 . Physical Review B, 2019, 99, .	1.1	27
22	Roles of Superchirality and Interference in Chiral Plasmonic Biodetection. Journal of Physical Chemistry C, 2019, 123, 15195-15203.	1.5	32
23	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
24	Anomalous Nonreciprocal Electrical Transport on Chiral Magnetic Order. Physical Review Letters, 2019, 122, 057206.	2.9	72
25	Switching behavior of the magnetic resonance in a monoaxial chiral magnetic crystal CrNb3S6. Applied Physics Letters, 2019, 115, 242401.	1.5	11
26	Anomalous Temperature Behavior of the Chiral Spin Helix in CrNb_3S_6 Thin Lamellae. Physical Review Letters, 2019, 122, 017204.	2.9	20
27	Geometrical protection of topological magnetic solitons in microprocessed chiral magnets. Physical Review B, 2018, 97, .	1.1	27
28	Laser-Induced Skyrmion Writing and Erasing in an Ultrafast Cryo-Lorentz Transmission Electron Microscope. Physical Review Letters, 2018, 120, 117201.	2.9	115
29	Vortex structures and configurations in a superconductor under helical magnetic field. AIP Advances, 2018, 8, 101314.	0.6	0
30	Effects of dynamic stress in magnetic superlattice of a monoaxial chiral magnet $\text{Cr}_{1/3}\text{NbS}_2$. Journal of Physics: Conference Series, 2018, 969, 012132.	0.3	2
31	Effects of chirality of a helical magnetic field on a superconductor. Journal of Physics: Conference Series, 2018, 1054, 012027.	0.3	0
32	Tailored resonance in micrometer-sized monoaxial chiral helimagnets. Physical Review B, 2018, 98, .	1.1	17
33	Chiral solitons in monoaxial chiral magnets in tilted magnetic field. Physical Review B, 2018, 98, .	1.1	21
34	Nontrivial Hall Response of Electrons Surfing on Manganite Thin Films. JPSJ News and Comments, 2018, 15, 06.	0.2	0
35	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
36	Intrinsic hysteresis due to the surface barrier for chiral solitons in monoaxial chiral helimagnets. Physical Review B, 2018, 97, .	1.1	30

#	ARTICLE	IF	CITATIONS
37	Electrical transport properties of micrometer-sized samples of the rare-earth chiral magnet YbNi_3S_6 . Physical Review B, 2018, 97, .	1.1	27
38	Spectral properties of chiral electromagnetic near fields created by chiral plasmonic nanostructures. , 2018, , .		0
39	Magnetic flux distributions in chiral helimagnet/superconductor bilayers. Physica C: Superconductivity and Its Applications, 2017, 533, 137-143.	0.6	2
40	Collective resonant dynamics of the chiral spin soliton lattice in a monoaxial chiral magnetic crystal. Physical Review B, 2017, 95, .	1.1	35
41	Probing microwave fields and enabling in-situ experiments in a transmission electron microscope. Scientific Reports, 2017, 7, 11064.	1.6	6
42	Magnetic solitons and magnetic phase diagram of the hexagonal chiral crystal CrNb_3S_6 in oblique magnetic fields. Physical Review B, 2017, 96, .	1.1	47
43	Magnetic field dependence of most stable vortex states in the chiral helimagnet / superconductor bilayer system. Journal of Physics: Conference Series, 2017, 871, 012026.	0.3	3
44	Vortex states in a superconductor under a helical magnetic field. Journal of Physics: Conference Series, 2017, 807, 052010.	0.3	2
45	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
46	Large enhancement of positive magnetoresistance by Ce doping in Si epitaxial thin films. Applied Physics Letters, 2016, 109, 112101.	1.5	0
47	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
48	Chiral Surface Twists and Skyrmion Stability in Nanolayers of Cubic Helimagnets. Physical Review Letters, 2016, 117, 087202.	2.9	109
49	Incommensurate-commensurate transitions in the monoaxial chiral helimagnet driven by the magnetic field. Physical Review B, 2016, 93, .	1.1	33
50	Symmetry, Structure, and Dynamics of Monoaxial Chiral Magnets. Journal of the Physical Society of Japan, 2016, 85, 112001.	0.7	157
51	Effects of chiral helimagnets on vortex states in a superconductor. Superconductor Science and Technology, 2016, 29, 125008.	1.8	8
52	Internal structure of hexagonal skyrmion lattices in cubic helimagnets. New Journal of Physics, 2016, 18, 095004.	1.2	82
53	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
54	Vortex Structure in Chiral Helimagnet /Superconductor Bilayer Structure. Physics Procedia, 2015, 65, 85-88.	1.2	5

#	ARTICLE	IF	CITATIONS
55	Structure Analyses of Amorphous MoS ₂ ; Active Materials in All-solid-state Lithium Batteries. <i>Electrochemistry</i> , 2015, 83, 889-893.	0.6	29
56	Magnetic soliton confinement and discretization effects arising from macroscopic coherence in a chiral spin soliton lattice. <i>Physical Review B</i> , 2015, 92, .	1.1	102
57	Magnetic Resonance in the Chiral Helimagnet CrNb ₃ S ₆ . <i>Physics Procedia</i> , 2015, 75, 926-931.	1.2	15
58	Li ₂ S nanocomposites underlying high-capacity and cycling stability in all-solid-state lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2015, 274, 471-476.	4.0	88
59	Electrochemical properties of all-solid-state lithium batteries with amorphous titanium sulfide electrodes prepared by mechanical milling. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2697-2701.	1.2	21
60	Real-space imaging of ferroelectric and structural antiphase domains in hexagonal YMnO ₃ . <i>Journal of the Korean Physical Society</i> , 2013, 62, 1077-1081.	0.3	6
61	Interlayer Magnetoresistance due to Chiral Soliton Lattice Formation in Hexagonal Chiral Magnet CrNb_3S_6 . <i>Physical Review Letters</i> , 2013, 111, 107204.		124
62	Small-angle electron scattering of magnetic fine structures. <i>Microscopy (Oxford, England)</i> , 2013, 62, S75-S86.	0.7	13
63	Microscopic Analysis of Magnetic Fine Structures Using Small-Angle Electron Scattering Method. <i>Nihon Kessho Gakkaishi</i> , 2013, 55, 121-127.	0.0	0
64	Doping Effect on Interlocked Ferroelectric and Structural Antiphase Domains in YMnO ₃ . <i>Japanese Journal of Applied Physics</i> , 2012, 51, 09LE09.	0.8	1
65	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
66	Small angle electron diffraction and deflection. <i>AIP Advances</i> , 2012, 2, .	0.6	14
67	Small-angle electron scattering from magnetic artificial lattice. <i>Journal of Electron Microscopy</i> , 2012, 61, 401-407.	0.9	9
68	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
69	Chiral Magnetic Soliton Lattice on a Chiral Helimagnet. <i>Physical Review Letters</i> , 2012, 108, 107202.	2.9	430
70	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
71	Magnetic chessboard-type nanodomains in Mn-doped CoFe ₂ O ₄ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 092052.	0.3	4
72	Control of magnetic domain wall displacement using spin current in small in-plane magnetic field in Permalloy nanowires. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 064015.	1.3	1

#	ARTICLE	IF	CITATIONS
73	Magnetic ripple in Permalloy narrow wires investigated by Lorentz microscopy. , 2010, , .		1
74	Magnetic properties and ferromagnetic microstructures in Al-doped $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Journal of Physics: Conference Series, 2010, 200, 012129.	0.3	1
75	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
76	Spin transport properties in polycrystalline Gd film and strip. , 2010, , .		0
77	Crystalline analysis of permalloy narrow wires subject to current pulses. Journal of Applied Physics, 2010, 107, 09A326.	1.1	1
78	Stochastic nature of current-excited magnetic domain and domain wall dynamics microscopically investigated by Lorentz microscopy. , 2010, , .		0
79	Current-excited magnetization reversal under in-plane magnetic field in a nanoscaled ferromagnetic wire. Applied Physics Letters, 2008, 92, .	1.5	32
80	Lorentz microscopy and electron holography studies of current-excited magnetization dynamics in Permalloy nanowires. , 2008, , .		1
81	Current-Excited Magnetization Dynamics in Narrow Ferromagnetic Wires. Japanese Journal of Applied Physics, 2006, 45, L683-L685.	0.8	55
82	Direct observation of rectified motion of vortices by Lorentz microscopy. Pramana - Journal of Physics, 2006, 66, 279-287.	0.9	0
83	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
84	Triple-biprism electron interferometry. Journal of Applied Physics, 2006, 99, 113502.	1.1	18
85	Variable Interference Azimuth Angle in Double-Biprism Electron Interferometry. Materia Japan, 2006, 45, 888-888.	0.1	0
86	Optical system for double-biprism electron holography. Journal of Electron Microscopy, 2005, 54, 19-27.	0.9	30
87	Rectified motion of vortices in a niobium superconductor observed by Lorentz microscopy. Physica C: Superconductivity and Its Applications, 2005, 426-431, 141-146.	0.6	3
88	Variable Interference Azimuth Angle in Double-Biprism Electron Interferometry. Japanese Journal of Applied Physics, 2005, 44, L636-L639.	0.8	6
89	Confirmation of information transfer using lattice images. Applied Physics Letters, 2005, 87, 174101.	1.5	7
90	Direct Observation of Rectified Motion of Vortices in a Niobium Superconductor. Physical Review Letters, 2005, 95, 087002.	2.9	106

#	ARTICLE	IF	CITATIONS
91	Double-biprism electron interferometry. Applied Physics Letters, 2004, 84, 3229-3231.	1.5	139
92	High-resolution observation by double-biprism electron holography. Journal of Applied Physics, 2004, 96, 6097-6102.	1.1	17
93	Dynamic Phase Diagram of Driven Vortices in Bi ₂ Sr ₂ CaCu ₂ O _y . Journal of Low Temperature Physics, 2003, 131, 907-911.	0.6	2
94	Dynamic phase diagram of vortices in high-T _c superconductors determined by experimental studies. Physica B: Condensed Matter, 2003, 329-333, 1346-1347.	1.3	1
95	Profile structure of magnetic flux lines in type-II superconductor from a rectangular electron hologram. Journal of Electron Microscopy, 2003, 52, 369-373.	0.9	3
96	Location-sensitive measurement of the local fluctuation of driven vortex density in Bi ₂ Sr ₂ CaCu ₂ O _y . Physical Review B, 2002, 65, .	1.1	25
97	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
98	Acâ€“dc interference effects in the dynamic state of vortices in Bi ₂ Sr ₂ CaCu ₂ O _y . Physica C: Superconductivity and Its Applications, 2002, 378-381, 448-452.	0.6	2
99	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
100	Bulk nature of broad-band noise in conduction noise spectra of Bi ₂ Sr ₂ CaCu ₂ O _y . Physica C: Superconductivity and Its Applications, 2001, 357-360, 594-596.	0.6	0
101	Direct observations of vortices in Bi ₂ 212 single crystals by scanning SQUID microscopy. Superconductor Science and Technology, 2001, 14, 1124-1127.	1.8	3
102	Local Magnetic Properties of Underdoped La _{2-x} Sr _x CuO ₄ Single Crystal Probed by Scanning Superconducting Quantum Interference Device Microscopy. Japanese Journal of Applied Physics, 2001, 40, L1359-L1361.	0.8	2
103	Dynamics of vortices and quasiparticles in the mixed state of Bi ₂ Sr ₂ CaCu ₂ O _y . Physica C: Superconductivity and Its Applications, 2000, 335, 148-152.	0.6	1
104	Temperature induced normal state redistribution of B _{1g} spectral weight in underdoped La _{2-x} Sr _x CuO ₄ . Physica C: Superconductivity and Its Applications, 2000, 341-348, 907-908.	0.6	1
105	Conduction noise in Bi ₂ Sr ₂ CaCu ₂ O _y . Physica C: Superconductivity and Its Applications, 2000, 341-348, 1215-1216.	0.6	0
106	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
107	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
108	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

#	ARTICLE	IF	CITATIONS
109	In-Plane Fourfold Symmetry of the Upper Critical Field Observed in La(Sr) ₂ 14 Single Crystals. Journal of Low Temperature Physics, 1999, 117, 551-555.	0.6	3
110	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
111	The Second Magnetization Peak Effect Observed in (La _{1-x} Sr _x) ₂ CuO ₄ Single Crystals under H // ab. , 1999, , 613-616.		0
112	Magnetization and Entropy Changes at the First-Order Phase-Transition of Vortex-Lattice in (La _{1-x} Sr _x) ₂ Tj ETQq0 0 0 rgBT /Overlock 10 T		
113	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
114	Chirality-controlled enantiopure crystal growth of a transition metal monosilicide by a floating zone method. Japanese Journal of Applied Physics, 0, , .	0.8	5