

Masaki Mito

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4747114/publications.pdf>

Version: 2024-02-01

106
papers

2,034
citations

257101

24
h-index

276539

41
g-index

109
all docs

109
docs citations

109
times ranked

2059
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256.	4.1	215
2	A light-induced spin crossover actuated single-chain magnet. <i>Nature Communications</i> , 2013, 4, .	5.8	162
3	Molecular motor-driven abrupt anisotropic shape change in a single crystal of a Ni complex. <i>Nature Chemistry</i> , 2014, 6, 1079-1083.	6.6	111
4	A ferromagnetically coupled Fe ₄₂ cyanide-bridged nanocage. <i>Nature Communications</i> , 2015, 6, 5955.	5.8	104
5	From Magnets to Metals: The Response of Tetragonal Bisdiselenazolyl Radicals to Pressure. <i>Journal of the American Chemical Society</i> , 2011, 133, 6051-6060.	6.6	89
6	Development of Miniature Diamond Anvil Cell for the Superconducting Quantum Interference Device Magnetometer. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 6641-6644.	0.8	61
7	Heavy Atom Ferromagnets under Pressure: Structural Changes and the Magnetic Response. <i>Journal of the American Chemical Society</i> , 2009, 131, 16012-16013.	6.6	60
8	Phase diagram of the chiral magnet Cr_3NbS_7 a magnetic field. <i>Physical Review B</i> , 2016, 93, .	1.1	54
9	Pressure-induced ferro- to antiferromagnetic transition in a purely organic compound, $\text{I}^2\text{-phasepara-nitrophenyl nitronyl nitroxide}$. <i>Physical Review B</i> , 1997, 56, R14255-R14258.	1.1	47
10	Giant nonlinear magnetic response in a molecule-based magnet. <i>Physical Review B</i> , 2009, 79, .	1.1	45
11	Discrete Change in Magnetization by Chiral Soliton Lattice Formation in the Chiral Magnet Cr_3NbS_7 . <i>Journal of the Physical Society of Japan</i> , 2016, 85, 013707.	0.7	44
12	Surface and core magnetic anisotropy in maghemite nanoparticles determined by pressure experiments. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	42
13	The Metallic State in Neutral Radical Conductors: Dimensionality, Pressure and Multiple Orbital Effects. <i>Journal of the American Chemical Society</i> , 2015, 137, 14136-14148.	6.6	37
14	Interplay of charge density wave and multiband superconductivity in layered quasi-two-dimensional materials: The case of NbS_2 .	0.9	36
15	Large enhancement of superconducting transition temperature in single-element superconducting rhenium by shear strain. <i>Scientific Reports</i> , 2016, 6, 36337.	1.6	35
16	Collective resonant dynamics of the chiral spin soliton lattice in a monoaxial chiral magnetic crystal. <i>Physical Review B</i> , 2017, 95, .	1.1	35
17	Magnetic Measurements on Molecule-Based Magnets under High Pressure. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 182-185.	0.7	34
18	Investigation of pressure-induced magnetic transitions in Co_3O_4 .	1.1	27

#	ARTICLE	IF	CITATIONS
19	Size Dependence of Crystal Structure and Magnetic Properties of NiO Nanoparticles in Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1194-1200.	1.5	27
20	Geometrical protection of topological magnetic solitons in microprocessed chiral magnets. <i>Physical Review B</i> , 2018, 97, .	1.1	27
21	Pressure effects of genuine organic crystalline ferromagnet possessing intermolecular contacts between nitroxide oxygen and methyl hydrogen atoms. <i>Chemical Physics Letters</i> , 2001, 333, 69-75.	1.2	26
22	Effect of pressure on single-chain magnets with repeating units of the MnIII ²⁺ NiII ²⁺ MnIII trimer. <i>Physical Review B</i> , 2005, 72, .	1.1	26
23	Volume shrinkage dependence of ferromagnetic moment in lanthanide ferromagnets gadolinium, terbium, dysprosium, and holmium. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 1290-1296.	1.9	26
24	Pressure Dependence of Intermolecular Interactions in the Genuine Organic \hat{I}^2 -Phase p-Nitrophenyl Nitronyl Nitroxide Crystal Accompanying a Ferro- to Antiferromagnetic Transition. <i>Journal of Physical Chemistry B</i> , 1998, 102, 671-676.	1.2	25
25	Size dependence of discrete change in magnetization in single crystal of chiral magnet Cr _{1/3} NbS ₂ . <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	24
26	Coexistence of Superconductivity and Charge Density Waves in Tantalum Disulfide: Experiment and Theory. <i>Physical Review Letters</i> , 2020, 125, 186401.	2.9	24
27	Investigation of structural changes in chiral magnet Cr _{1/3} NbS ₂ under application of pressure. <i>Journal of Applied Physics</i> , 2015, 117, 183904.	1.1	23
28	Observation of orbital angular momentum in the chiral magnet CrNb_3S_6 by soft x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2019, 99, .	1.1	22
29	Pushing T_C to 27.5 K in a heavy atom radical ferromagnet. <i>Chemical Communications</i> , 2016, 52, 13877-13880.	2.2	21
30	Magnetic diagnostics using the third-harmonic magnetic response for a molecule-based magnet networked by a single chiral ligand. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	19
31	Spin correlation and relaxational dynamics in molecular-based single-chain magnets. <i>Physical Review B</i> , 2006, 74, .	1.1	18
32	Pressure effects on an organic radical ferromagnet: $\text{[2,5-difluorophenyl-}\hat{I}^2\text{-nitronyl nitroxide]}$. <i>Physical Review B</i> , 2003, 67, .	1.1	17
33	Effective Disappearance of the Meissner Signal in the Cuprate Superconductor YBa ₂ Cu ₄ O ₈ under Uniaxial Strain. <i>Journal of the Physical Society of Japan</i> , 2014, 83, 023705.	0.7	17
34	Hydrostatic Compression Effects on Fifth-Group Element Superconductors V, Nb, and Ta Subjected to High-Pressure Torsion. <i>Materials Transactions</i> , 2019, 60, 1472-1483.	0.4	17
35	Nonlinear magnetic responses at the phase boundaries around helimagnetic and skyrmion lattice phases in MnSi: Evaluation of robustness of noncollinear spin texture. <i>Physical Review B</i> , 2018, 97, .	1.1	16
36	Magnetic Resonance in the Chiral Helimagnet CrNb ₃ S ₆ . <i>Physics Procedia</i> , 2015, 75, 926-931.	1.2	15

#	ARTICLE	IF	CITATIONS
37	Uniaxial strain effects on the superconducting transition in Re-doped Hg-1223 cuprate superconductors. <i>Physical Review B</i> , 2017, 95, .	1.1	15
38	Magnetic properties of 2,5-difluorophenyl- $\dot{\text{I}}^{\pm}$ -nitronyl nitroxide and related position isomers. <i>Chemical Physics Letters</i> , 1998, 296, 159-166.	1.2	14
39	Anomalous spiked structures in ESR signals from the chiral helimagnet CrNb ₃ S ₆ . <i>Physical Review B</i> , 2019, 100, .	1.1	14
40	Pressure dependence of Curie temperature in a selenazyl radical ferromagnet. <i>Polyhedron</i> , 2011, 30, 2997-3000.	1.0	13
41	Magnetic measurement of rare earth ferromagnet gadolinium under high pressure. <i>Physica B: Condensed Matter</i> , 2003, 329-333, 667-668.	1.3	12
42	Phase Separation in La _{1-x} Sr _x MnO _{3+δ} Nanocrystals Studied by Electron Spin Resonance. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 074715.	0.7	12
43	High-pressure dc magnetic measurements on a bisdiselenazoyl radical ferromagnet using a vibrating-coil SQUID magnetometer. <i>Physical Review B</i> , 2019, 99, .	1.1	12
44	Exotic magnetic and electronic properties of layered CrI ₃ single crystals under high pressure. <i>Physical Review B</i> , 2022, 105, .	1.1	12
45	Pressure effects of a genuine organic crystalline ferromagnet dupeyredioxyl. <i>Polyhedron</i> , 2003, 22, 2287-2291.	1.0	11
46	Uniaxial Strain Effects on Cuprate Superconductor YBa ₂ Cu ₄ O ₈ . <i>Journal of the Physical Society of Japan</i> , 2012, 81, 113709.	0.7	11
47	Effects of Hydrostatic Pressure and Uniaxial Strain on Spin-Peierls Transition in an Organic Radical Magnet, BBDTA \cdot InCl ₄ . <i>Journal of the Physical Society of Japan</i> , 2009, 78, 124705.	0.7	10
48	ac field-switchable magnetic properties of two-dimensional networked nanosize magnets. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	10
49	Effects of anisotropic strain on perovskite LaMnO _{3+δ} nanoparticles embedded in mesoporous silica. <i>Journal of Applied Physics</i> , 2011, 110, 044307.	1.1	10
50	Study of Magnetic Domain Dynamics Using Nonlinear Magnetic Responses: Magnetic Diagnostics of the Itinerant Magnet MnP. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 104707.	0.7	10
51	High-pressure effects on isotropic superconductivity in the iron-free layered pnictide superconductor BaPd ₂ AsF ₂ . <i>Physical Review B</i> , 2018, 97, .	1.1	10
52	Characteristic Size Effects on the Crystallographic Structure and Magnetic Properties of RMnO ₃ (R = Eu, Gd, Tb, Dy) Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14474-14485.	1.5	10
53	RKKY interaction in metallic Gd in GPa pressure regions. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 593-594.	1.0	9
54	Uniaxial Strain Effects on Superconducting Transition in Y _{0.98} Ca _{0.02} Ba ₂ Cu ₄ O ₈ . <i>Journal of the Physical Society of Japan</i> , 2016, 85, 024711.	0.7	9

#	ARTICLE	IF	CITATIONS
55	Surface-size and shape dependencies of change in chiral soliton number in submillimeter-scale crystals of chiral magnet CrNb ₃ S ₆ . AIP Advances, 2019, 9, .	0.6	9
56	Magnetic Properties of Pure Galvinoxyl under Pressure. Suppression of the Structural Change and Observation of the Magnetic Ordering.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7, 620-622.	0.1	9
57	Nonlinear magnetic susceptibility measurements at GPa-level pressures. Journal of Physics: Conference Series, 2010, 215, 012182.	0.3	8
58	High pressure effects on isotropic Nd ₂ Fe ₁₄ B magnet accompanying change in coercive field. Journal of Applied Physics, 2015, 118, .	1.1	8
59	High-pressure phase diagram of NdFeAsO _{0.9} F _{0.1} : Disappearance of superconductivity on the verge of ferromagnetism from Nd moments. Physical Review B, 2018, 98, .	1.1	8
60	Effect of size on the magnetic properties and crystal structure of magnetically frustrated DyMn ₂ O ₅ nanoparticles. Physical Review B, 2018, 98, .	1.1	8
61	Hydrostatic pressure effects on superconducting transition of nanostructured niobium highly strained by high-pressure torsion. Journal of Applied Physics, 2019, 125, .	1.1	8
62	Phase transformations in Al-Ti-Mg powders consolidated by high-pressure torsion: Experiments and first-principles calculations. Journal of Alloys and Compounds, 2021, 889, 161815.	2.8	8
63	Pressure-Induced Ferromagnetic to Nonmagnetic Transition and the Enhancement of Ferromagnetic Interaction in the Thiazyl-Based Organic Ferromagnet $\hat{\Gamma}^3$ -BBDTA-GaCl ₄ . Journal of the Physical Society of Japan, 2008, 77, 124713.	0.7	7
64	Spontaneous magnetostriction effects in the chiral magnet $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{CrNb} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2020, 102, .	1.1	7
65	Oxygen-molecule spin-nanotubes constructed by physisorption into a nanoporous medium. Physical Review B, 2008, 78, .	1.1	6
66	Observation of Spin Locking in Dysprosium through a Nonlinear AC Magnetic Response. Journal of the Physical Society of Japan, 2011, 80, 064707.	0.7	6
67	Magnetic susceptibility measurement of solid oxygen at pressures up to 3.3â€‰GPa. Journal of Applied Physics, 2014, 115, .	1.1	6
68	Magnetic measurements of hydrogen desorption from palladium hydride PdH _{0.64} prepared by severe plastic deformation. Journal of Applied Physics, 2020, 127, .	1.1	6
69	Relationship of magnetic ordering and crystal structure in the lanthanide ferromagnets Gd, Tb, Dy, and Ho at high pressures. Physical Review B, 2021, 103, .	1.1	6
70	Soliton locking phenomenon over finite magnetic field region in the monoaxial chiral magnet CrNb ₃ S ₆ . Applied Physics Letters, 2020, 117, .	1.5	6
71	Particle-diameter dependence of the coercive field in FePt nanoparticles with a face-centered tetragonal structure. Journal of Applied Physics, 2010, 108, 124315.	1.1	5
72	Effects of selective lattice deformation on YbBa ₂ Cu ₄ O ₈ and YBa ₂ Cu ₃ O ₇ epitaxial films. Applied Physics Letters, 2014, 104, 102601.	1.5	5

#	ARTICLE	IF	CITATIONS
73	Contactless measurement of electrical conductivity for bulk nanostructured silver prepared by high-pressure torsion: A study of the dissipation process of giant strain. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	5
74	Effects of uniaxial pressure on the spin ice $\langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Ho} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mathvariant} = \text{"normal"} \rangle \text{O} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle .$	1.1	5
75	High-pressure magnetic properties of antiferromagnetic samarium up to 30 GPa using a SQUID-based vibrating coil magnetometer. <i>Physical Review B</i> , 2021, 104, .	1.1	5
76	Multiple spectra of electron spin resonance in chiral molecule-based magnets networked by a single chiral ligand. <i>Journal of Applied Physics</i> , 2013, 114, 133901.	1.1	4
77	Contactless electrical conductivity measurement of metallic submicron-grain material: Application to the study of aluminum with severe plastic deformation. <i>Review of Scientific Instruments</i> , 2016, 87, 053905.	0.6	4
78	Magnetic properties of GdMnO ₃ nanoparticles embedded in mesoporous silica. <i>Physica B: Condensed Matter</i> , 2018, 536, 111-114.	1.3	4
79	Magnetic Phase Diagram and Chiral Soliton Phase of Chiral Antiferromagnet [NH ₄][Mn(HCOO) ₃]. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 094710.	0.7	4
80	Size Effects on Magnetic Property and Crystal Structure of Mn ₃ O ₄ Nanoparticles in Mesoporous Silica. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	4
81	Distributed Branch-and-Bound Scheme for Solving the Winner Determination Problem in Combinatorial Auctions. , 0, , .		3
82	Development of SQUID-VCM magnetic measurement system for pressure experiment. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2734-2736.	1.0	3
83	Effects of Pressure on Two-Dimensional Networked Single-Molecule Magnets Exhibiting AC-Field-Switchable Magnetic Properties. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 064716.	0.7	3
84	AC magnetic measurement of LiFeAs at pressures up to 5.2 GPa: The relation between T _c and the structural parameters. <i>Journal of the Korean Physical Society</i> , 2013, 63, 445-447.	0.3	3
85	Achieving superconductivity with higher T _c in lightweight Al-Ti-Mg alloys: Prediction using machine learning and synthesis via high-pressure torsion process. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	3
86	Paramagnetic magnetostriction in the chiral magnet $\langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{CrNb} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mathvariant} = \text{"normal"} \rangle \text{S} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 6 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ at room temperature. <i>Physical Review B</i> , 2022, 105, .	1.1	3
87	Effect of Pressure on a Chiral Two-Dimensional Ferrimagnet. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 192-193.	0.7	2
88	Synthesis and magnetic properties of DyMnO ₃ nanoparticles in mesoporous silica. <i>Journal of the Korean Physical Society</i> , 2013, 63, 826-829.	0.3	2
89	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
90	Crystal structure of high-density Fe ₅₆ cluster Nd ₂ Fe ₁₄ B under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166163.	1.0	2

#	ARTICLE	IF	CITATIONS
91	Controlling avalanche soliton nucleation in a chiral soliton lattice on a monoaxial chiral magnet CrNb ₃ Sn by dynamic strain. Applied Physics Letters, 2021, 118, 132404.	1.5	2
92	New magnetic intermediate state, β -phase, in the cubic chiral magnet MnSi. APL Materials, 2022, 10, .	2.2	2
93	Artificial material manipulation of magnetic anisotropy in FePt magnetic nanoparticles through application of hydrostatic pressure. Journal of Applied Physics, 2013, 113, 044302.	1.1	1
94	Effect of ultrasonic strain on p-type silicon wafers. Japanese Journal of Applied Physics, 2014, 53, 07KC07.	0.8	1
95	Ultrasonic strain effects on Bi ₂ 223 cuprate superconductors. Japanese Journal of Applied Physics, 2014, 53, 07KC05.	0.8	1
96	Anisotropic compression effects on nanocrystalline crystals of nickel oxide. Journal of Magnetism and Magnetic Materials, 2019, 489, 165407.	1.0	1
97	Strong suppression of Curie temperature of spin-polarized ferromagnet La ^x Sr _x MnO ₃ by application of dynamic strain. AIP Advances, 2020, 10, 025220.	0.6	1
98	Hydrostatic contraction and anisotropic contraction effects on oxygen molecule nanorods. Journal of Magnetism and Magnetic Materials, 2021, 518, 167378.	1.0	1
99	Small Angle Neutron Scattering Study near the Critical Field at Low Temperature in MnSi. , 2021, , .		1
100	Heat Capacity and Ac Magnetic Susceptibility Measurements of Magnetic Superconductor HoNi ₂ B ₂ C under Pressure. Journal of the Physical Society of Japan, 2007, 76, 148-149.	0.7	1
101	Magnetic memory in a ceramic YBCO superconductor composed of sub-micron-size grains. Journal of the Korean Physical Society, 2013, 62, 1832-1835.	0.3	0
102	Magnetic properties of Hagi ware. Journal of the Ceramic Society of Japan, 2015, 123, 649-655.	0.5	0
103	Crystal Structure and Magnetic Property on Magnetic Nanoparticles Synthesized in Mesoporous Silica. Nihon Kessho Gakkaishi, 2016, 58, 85-90.	0.0	0
104	Inter-grain Phase Transitions in Superconducting Ceramic YBa ₂ Cu ₃ O _{7-δ} under Low Magnetic Fields. , 2020, , .		0
105	Uniaxial Compression Effects on Cuprate Superconductors. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2019, 29, 262-271.	0.1	0
106	Observing the orbital angular momentum of Fe and Co in chiral magnet Fe _{0.75} Co _{0.25} Si using soft x-ray magnetic circular dichroism. Journal of Applied Physics, 2022, 131, 153902.	1.1	0