

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 | Exotic magnetic and electronic properties of layered CrI_3 single crystals under high pressure. <i>Physical Review B</i> , 2022, 105, . | | |
| 2 | Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256. | 4.1 | 215 |
| 3 | 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 |
| 4 | Paramagnetic magnetostriction in the chiral magnet CrNb_3S_6 at room temperature. <i>Physical Review B</i> , 2022, 105, . | 1.1 | 3 |
| 5 | New magnetic intermediate state, α -phase in the cubic chiral magnet MnSi . <i>APL Materials</i> , 2022, 10, . | 2.2 | 2 |
| 6 | Observing the orbital angular momentum of Fe and Co in chiral magnet $\text{Fe}_{0.75}\text{Co}_{0.25}\text{Si}$ using soft x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2022, 131, 153902. | 1.1 | 0 |
| 7 | Hydrostatic contraction and anisotropic contraction effects on oxygen molecule nanorods. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 518, 167378. | 1.0 | 1 |
| 8 | Relationship of magnetic ordering and crystal structure in the lanthanide ferromagnets Gd, Tb, Dy, and Ho at high pressures. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 6 |
| 9 | Small Angle Neutron Scattering Study near the Critical Field at Low Temperature in MnSi , 2021, , . | | 1 |
| 10 | Controlling avalanche soliton nucleation in a chiral soliton lattice on a monoaxial chiral magnet CrNb_3S_6 by dynamic strain. <i>Applied Physics Letters</i> , 2021, 118, 132404. | 1.5 | 2 |
| 11 | 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 |
| 12 | 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 |
| 13 | Phase transformations in Al-Ti-Mg powders consolidated by high-pressure torsion: Experiments and first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161815. | 2.8 | 8 |
| 14 | Crystal structure of high-density Fe_{56} cluster $\text{Nd}_2\text{Fe}_{14}\text{B}$ under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166163. | 1.0 | 2 |
| 15 | Effects of uniaxial pressure on the spin ice Ho_2O_7 . <i>Physical Review B</i> , 2020, 102, . | 1.1 | 5 |
| 16 | Spontaneous magnetostriction effects in the chiral magnet CrNb_3S_6 . <i>Physical Review B</i> , 2020, 102, . | 1.1 | 7 |
| 17 | Coexistence of Superconductivity and Charge Density Waves in Tantalum Disulfide: Experiment and Theory. <i>Physical Review Letters</i> , 2020, 125, 186401. | 2.9 | 24 |
| 18 | Magnetic measurements of hydrogen desorption from palladium hydride $\text{PdH}_{0.64}$ prepared by severe plastic deformation. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Inter-grain Phase Transitions in Superconducting Ceramic $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ under Low Magnetic Fields. , 2020, , | | 0 |
| 20 | Strong suppression of Curie temperature of spin-polarized ferromagnet $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ by application of dynamic strain. AIP Advances, 2020, 10, 025220. | 0.6 | 1 |
| 21 | Soliton locking phenomenon over finite magnetic field region in the monoaxial chiral magnet CrNb_3S_6 . Applied Physics Letters, 2020, 117, . | 1.5 | 6 |
| 22 | Interplay of charge density wave and multiband superconductivity in layered quasi-two-dimensional materials: The case of HxNb_2S_6 | 0.9 | 36 |
| 23 | Surface-size and shape dependencies of change in chiral soliton number in submillimeter-scale crystals of chiral magnet CrNb_3S_6 . AIP Advances, 2019, 9, . | 0.6 | 9 |
| 24 | Anisotropic compression effects on nanocrystalline crystals of nickel oxide. Journal of Magnetism and Magnetic Materials, 2019, 489, 165407. | 1.0 | 1 |
| 25 | Anomalous spiked structures in ESR signals from the chiral helimagnet CrNb_3S_6 . Physical Review B, 2019, 100, . | 1.1 | 14 |
| 26 | 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 |
| 27 | Hydrostatic pressure effects on superconducting transition of nanostructured niobium highly strained by high-pressure torsion. Journal of Applied Physics, 2019, 125, . | 1.1 | 8 |
| 28 | Magnetic Phase Diagram and Chiral Soliton Phase of Chiral Antiferromagnet $[\text{NH}_4][\text{Mn}(\text{HCOO})_3]$. Journal of the Physical Society of Japan, 2019, 88, 094710. | 0.7 | 4 |
| 29 | High-pressure dc magnetic measurements on a bisdiselenazolyl radical ferromagnet using a vibrating-coil SQUID magnetometer. Physical Review B, 2019, 99, . | 1.1 | 12 |
| 30 | Size Effects on Magnetic Property and Crystal Structure of Mn_3O_4 Nanoparticles in Mesoporous Silica. IEEE Transactions on Magnetics, 2019, 55, 1-4. | 1.2 | 4 |
| 31 | Hydrostatic Compression Effects on Fifth-Group Element Superconductors V, Nb, and Ta Subjected to High-Pressure Torsion. Materials Transactions, 2019, 60, 1472-1483. | 0.4 | 17 |
| 32 | 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 |
| 33 | High-pressure effects on isotropic superconductivity in the iron-free layered pnictide superconductor BaPd_2As_2 . Physical Review B, 2018, 97, . | 1.1 | 10 |
| 34 | Geometrical protection of topological magnetic solitons in microprocessed chiral magnets. Physical Review B, 2018, 97, . | 1.1 | 27 |
| 35 | Nonlinear magnetic responses at the phase boundaries around helimagnetic and skyrmion lattice phases in MnSi : Evaluation of robustness of noncollinear spin texture. Physical Review B, 2018, 97, . | 1.1 | 16 |
| 36 | Magnetic properties of GdMnO_3 nanoparticles embedded in mesoporous silica. Physica B: Condensed Matter, 2018, 536, 111-114. | 1.3 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | High-pressure phase diagram of $\text{NdFeAsO}_{0.9}\text{F}_{0.1}$: Disappearance of superconductivity on the verge of ferromagnetism from Nd moments. Physical Review B, 2018, 98, . | 1.1 | 8 |
| 39 | Effect of size on the magnetic properties and crystal structure of magnetically frustrated DyMn_2O_5 nanoparticles. Physical Review B, 2018, 98, . | 1.1 | 8 |
| 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 | Contactless measurement of electrical conductivity for bulk nanostructured silver prepared by high-pressure torsion: A study of the dissipation process of giant strain. Journal of Applied Physics, 2017, 122, . | 1.1 | 5 |
| 42 | Uniaxial strain effects on the superconducting transition in Re-doped Hg-1223 cuprate superconductors. Physical Review B, 2017, 95, . | 1.1 | 15 |
| 43 | Large enhancement of superconducting transition temperature in single-element superconducting rhenium by shear strain. Scientific Reports, 2016, 6, 36337. | 1.6 | 35 |
| 44 | Contactless electrical conductivity measurement of metallic submicron-grain material: Application to the study of aluminum with severe plastic deformation. Review of Scientific Instruments, 2016, 87, 053905. | 0.6 | 4 |
| 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 | Phase diagram of the chiral magnet $\text{Cr}_{1/3}\text{NbS}_2$ in a magnetic field. Physical Review B, 2016, 93, . | 1.1 | 54 |
| 47 | Pushing T_C to 27.5 K in a heavy atom radical ferromagnet. Chemical Communications, 2016, 52, 13877-13880. | 2.2 | 21 |
| 48 | Crystal Structure and Magnetic Property on Magnetic Nanoparticles Synthesized in Mesoporous Silica. Nihon Kessho Gakkaishi, 2016, 58, 85-90. | 0.0 | 0 |
| 49 | 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 |
| 50 | Uniaxial Strain Effects on Superconducting Transition in $\text{Y}_{0.98}\text{Ca}_{0.02}\text{Ba}_2\text{Cu}_4\text{O}_8$. Journal of the Physical Society of Japan, 2016, 85, 024711. | 0.7 | 9 |
| 51 | Magnetic properties of Hagi ware. Journal of the Ceramic Society of Japan, 2015, 123, 649-655. | 0.5 | 0 |
| 52 | High pressure effects on isotropic $\text{Nd}_2\text{Fe}_{14}\text{B}$ magnet accompanying change in coercive field. Journal of Applied Physics, 2015, 118, . | 1.1 | 8 |
| 53 | Study of Magnetic Domain Dynamics Using Nonlinear Magnetic Responses: Magnetic Diagnostics of the Itinerant Magnet MnP . Journal of the Physical Society of Japan, 2015, 84, 104707. | 0.7 | 10 |
| 54 | Magnetic Resonance in the Chiral Helimagnet CrNb_3S_6 . Physics Procedia, 2015, 75, 926-931. | 1.2 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | 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 |
| 56 | A ferromagnetically coupled Fe ₄₂ cyanide-bridged nanocage. <i>Nature Communications</i> , 2015, 6, 5955. | 5.8 | 104 |
| 57 | Investigation of structural changes in chiral magnet Cr _{1-x} NbS ₂ under application of pressure. <i>Journal of Applied Physics</i> , 2015, 117, 183904. | 1.1 | 23 |
| 58 | 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 |
| 59 | Effect of ultrasonic strain on p-type silicon wafers. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 07KC07. | 0.8 | 1 |
| 60 | Effects of selective lattice deformation on YBa ₂ Cu ₄ O ₈ and YBa ₂ Cu ₃ O ₇ epitaxial films. <i>Applied Physics Letters</i> , 2014, 104, 102601. | 1.5 | 5 |
| 61 | Ultrasonic strain effects on Bi ₂₂₂₃ cuprate superconductors. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 07KC05. | 0.8 | 1 |
| 62 | Magnetic susceptibility measurement of solid oxygen at pressures up to 3.3 GPa. <i>Journal of Applied Physics</i> , 2014, 115, . | 1.1 | 6 |
| 63 | 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 |
| 64 | 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 |
| 65 | Magnetic memory in a ceramic YBCO superconductor composed of sub-micron-size grains. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1832-1835. | 0.3 | 0 |
| 66 | A light-induced spin crossover actuated single-chain magnet. <i>Nature Communications</i> , 2013, 4, . | 5.8 | 162 |
| 67 | 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 |
| 68 | 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 |
| 69 | Fe_3O_x | 1.1 | 27 |
| 70 | 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 |
| 71 | Artificial material manipulation of magnetic anisotropy in FePt magnetic nanoparticles through application of hydrostatic pressure. <i>Journal of Applied Physics</i> , 2013, 113, 044302. | 1.1 | 1 |
| 72 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Uniaxial Strain Effects on Cuprate Superconductor YBa ₂ Cu ₄ O ₈ . Journal of the Physical Society of Japan, 2012, 81, 113709. | 0.7 | 11 |
| 74 | Magnetic diagnostics using the third-harmonic magnetic response for a molecule-based magnet networked by a single chiral ligand. Journal of Applied Physics, 2012, 111, . | 1.1 | 19 |
| 75 | From Magnets to Metals: The Response of Tetragonal Bisdiselenazoyl Radicals to Pressure. Journal of the American Chemical Society, 2011, 133, 6051-6060. | 6.6 | 89 |
| 76 | Pressure dependence of Curie temperature in a selenazyl radical ferromagnet. Polyhedron, 2011, 30, 2997-3000. | 1.0 | 13 |
| 77 | Effects of anisotropic strain on perovskite LaMnO ₃ + $\hat{\Gamma}$ nanoparticles embedded in mesoporous silica. Journal of Applied Physics, 2011, 110, 044307. | 1.1 | 10 |
| 78 | 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 |
| 79 | ac field-switchable magnetic properties of two-dimensional networked nanosize magnets. Journal of Applied Physics, 2010, 107, . | 1.1 | 10 |
| 80 | 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 |
| 81 | Nonlinear magnetic susceptibility measurements at GPa-level pressures. Journal of Physics: Conference Series, 2010, 215, 012182. | 0.3 | 8 |
| 82 | Giant nonlinear magnetic response in a molecule-based magnet. Physical Review B, 2009, 79, . | 1.1 | 45 |
| 83 | Volume shrinkage dependence of ferromagnetic moment in lanthanide ferromagnets gadolinium, terbium, dysprosium, and holmium. Journal of Physics and Chemistry of Solids, 2009, 70, 1290-1296. | 1.9 | 26 |
| 84 | Surface and core magnetic anisotropy in maghemite nanoparticles determined by pressure experiments. Applied Physics Letters, 2009, 94, . | 1.5 | 42 |
| 85 | Heavy Atom Ferromagnets under Pressure: Structural Changes and the Magnetic Response. Journal of the American Chemical Society, 2009, 131, 16012-16013. | 6.6 | 60 |
| 86 | Effects of Hydrostatic Pressure and Uniaxial Strain on Spin-Peierls Transition in an Organic Radical Magnet, BBDTAA \cdot InCl ₄ . Journal of the Physical Society of Japan, 2009, 78, 124705. | 0.7 | 10 |
| 87 | Phase Separation in La _{1-x} Sr _x MnO ₃ + $\hat{\Gamma}$ Nanocrystals Studied by Electron Spin Resonance. Journal of the Physical Society of Japan, 2008, 77, 074715. | 0.7 | 12 |
| 88 | Oxygen-molecule spin-nanotubes constructed by physisorption into a nanoporous medium. Physical Review B, 2008, 78, . | 1.1 | 6 |
| 89 | Pressure-Induced Ferromagnetic to Nonmagnetic Transition and the Enhancement of Ferromagnetic Interaction in the Thiazyl-Based Organic Ferromagnet $\hat{\Gamma}^3$ -BBDTAA \cdot GaCl ₄ . Journal of the Physical Society of Japan, 2008, 77, 124713. | 0.7 | 7 |
| 90 | Effect of Pressure on a Chiral Two-Dimensional Ferrimagnet. Journal of the Physical Society of Japan, 2007, 76, 192-193. | 0.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Development of SQUID-VCM magnetic measurement system for pressure experiment. Journal of Magnetism and Magnetic Materials, 2007, 310, 2734-2736. | 1.0 | 3 |
| 92 | Heat Capacity and Ac Magnetic Susceptibility Measurements of Magnetic Superconductor $\text{HoNi}_2\text{B}_2\text{C}$ under Pressure. Journal of the Physical Society of Japan, 2007, 76, 148-149. | 0.7 | 1 |
| 93 | Magnetic Measurements on Molecule-Based Magnets under High Pressure. Journal of the Physical Society of Japan, 2007, 76, 182-185. | 0.7 | 34 |
| 94 | Spin correlation and relaxational dynamics in molecular-based single-chain magnets. Physical Review B, 2006, 74, . | 1.1 | 18 |
| 95 | Effect of pressure on single-chain magnets with repeating units of the $\text{MnIII}^{\sim}\text{NiII}^{\sim}\text{MnIII}$ trimer. Physical Review B, 2005, 72, . | 1.1 | 26 |
| 96 | RKKY interaction in metallic Gd in GPa pressure regions. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 593-594. | 1.0 | 9 |
| 97 | Pressure effects of a genuine organic crystalline ferromagnet dupeyredioxyl . Polyhedron, 2003, 22, 2287-2291. | 1.0 | 11 |
| 98 | Magnetic measurement of rare earth ferromagnet gadolinium under high pressure. Physica B: Condensed Matter, 2003, 329-333, 667-668. | 1.3 | 12 |
| 99 | Pressure effects on an organic radical ferromagnet: $\text{2,5-difluorophenyl-}\dot{\text{N}}$ -nitronyl nitroxide. Physical Review B, 2003, 67, . | 1.1 | 17 |
| 100 | Pressure effects of genuine organic crystalline ferromagnet possessing intermolecular contacts between nitroxide oxygen and methyl hydrogen atoms. Chemical Physics Letters, 2001, 333, 69-75. | 1.2 | 26 |
| 101 | Development of Miniature Diamond Anvil Cell for the Superconducting Quantum Interference Device Magnetometer. Japanese Journal of Applied Physics, 2001, 40, 6641-6644. | 0.8 | 61 |
| 102 | Magnetic properties of 2,5-difluorophenyl- $\dot{\text{N}}$ -nitronyl nitroxide and related position isomers. Chemical Physics Letters, 1998, 296, 159-166. | 1.2 | 14 |
| 103 | Pressure Dependence of Intermolecular Interactions in the Genuine Organic $\dot{\text{N}}$ -Phase p-Nitrophenyl Nitronyl Nitroxide Crystal Accompanying a Ferro- to Antiferromagnetic Transition. Journal of Physical Chemistry B, 1998, 102, 671-676. | 1.2 | 25 |
| 104 | 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 |
| 105 | Pressure-induced ferro- to antiferromagnetic transition in a purely organic compound, $\dot{\text{N}}$ -phase para-nitrophenyl nitronyl nitroxide. Physical Review B, 1997, 56, R14255-R14258. | 1.1 | 47 |
| 106 | Distributed Branch-and-Bound Scheme for Solving the Winner Determination Problem in Combinatorial Auctions. , 0, , . | | 3 |