

Taka-hisa Arima

List of Publications by Year in descending order

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298
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298
docs citations

298
times ranked

15599
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Magnetic control of ferroelectric polarization. Nature, 2003, 426, 55-58. | 13.7 | 4,204 |
| 2 | Insulator-metal transition and giant magnetoresistance in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Physical Review B, 1995, 51, 14103-14109. | 1.1 | 2,677 |
| 3 | Phase-Sensitive Observation of a Spin-Orbital Mott State in Sr_2IrO_4 . Science, 2009, 323, 1329-1332. | 6.0 | 1,008 |
| 4 | Optical spectra of $\text{La}_2\text{SrCuO}_4$: Effect of carrier doping on the electronic structure of the CuO_2 plane. Physical Review B, 1991, 43, 7942-7954. | 1.1 | 923 |
| 5 | Giant Magnetotransport Phenomena in Filling-Controlled Kondo Lattice System: $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Journal of the Physical Society of Japan, 1994, 63, 3931-3935. | 0.7 | 771 |
| 6 | New Phases of C_{60} Synthesized at High Pressure. Science, 1994, 264, 1570-1572. | 6.0 | 657 |
| 7 | A structural phase transition induced by an external magnetic field. Nature, 1995, 373, 407-409. | 13.7 | 651 |
| 8 | Magnetic Reversal of the Ferroelectric Polarization in a Multiferroic Spinel Oxide. Physical Review Letters, 2006, 96, 207204. | 2.9 | 639 |
| 9 | Resonant X-Ray Scattering from Orbital Ordering in LaMnO_3 . Physical Review Letters, 1998, 81, 582-585. | 2.9 | 584 |
| 10 | Direct Observation of Charge and Orbital Ordering in $\text{La}_{0.5}\text{Sr}_{1.5}\text{MnO}_4$. Physical Review Letters, 1998, 80, 1932-1935. | 2.9 | 542 |
| 11 | Variation of optical gaps in perovskite-type 3d transition-metal oxides. Physical Review B, 1993, 48, 17006-17009. | 1.1 | 538 |
| 12 | Filling dependence of electronic properties on the verge of metal-Mott-insulator transition in $\text{Sr}_{1-x}\text{La}_x\text{TiO}_3$. Physical Review Letters, 1993, 70, 2126-2129. | 2.9 | 529 |
| 13 | Distorted perovskite with the 1G configuration as a frustrated spin system. Physical Review B, 2003, 68, . | 1.1 | 504 |
| 14 | Composite domain walls in a multiferroic perovskite ferrite. Nature Materials, 2009, 8, 558-562. | 13.3 | 494 |
| 15 | Large Topological Hall Effect in a Short-Period Helimagnet MnGe . Physical Review Letters, 2011, 106, 156603. | 2.9 | 485 |
| 16 | Anomalous Variation of Optical Spectra with Spin Polarization in Double-Exchange Ferromagnet: $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Physical Review Letters, 1995, 75, 109-112. | 2.9 | 451 |
| 17 | Magnetic-Field-Induced Ferroelectric State in DyFeO_3 . Physical Review Letters, 2008, 101, 097205. | 2.9 | 427 |
| 18 | Skyrmion lattice with a giant topological Hall effect in a frustrated triangular-lattice magnet. Science, 2019, 365, 914-918. | 6.0 | 418 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Ferroelectric Polarization Flop in a Frustrated Magnet $MnWO_4$ Induced by a Magnetic Field. <i>Physical Review Letters</i> , 2006, 97, 097203. | 2.9 | 406 |
| 20 | Ferroelectricity Induced by Proper-Screw Type Magnetic Order. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 073702. | 0.7 | 389 |
| 21 | Variation of electronic structure in $La_{1-x}Sr_xMnO_3$ ($0 \leq x \leq 0.3$) as investigated by optical conductivity spectra. <i>Physical Review B</i> , 1997, 55, 4206-4214. | 1.1 | 309 |
| 22 | Electric Control of Spin Helicity in a Magnetic Ferroelectric. <i>Physical Review Letters</i> , 2007, 98, 147204. | 2.9 | 299 |
| 23 | Multiferroic M -Type Hexaferrites with a Room-Temperature Conical State and Magnetically Controllable Spin Helicity. <i>Physical Review Letters</i> , 2010, 105, 257201. | 2.9 | 273 |
| 24 | Random Potential Effect near the Bicritical Region in Perovskite Manganites as Revealed by Comparison with the Ordered Perovskite Analogs. <i>Physical Review Letters</i> , 2003, 90, 177203. | 2.9 | 254 |
| 25 | Cu-O network dependence of optical charge-transfer gaps and spin-pair excitations in single-CuO ₂ -layer compounds. <i>Physical Review B</i> , 1990, 41, 11657-11660. | 1.1 | 252 |
| 26 | Structural and magnetoelectric properties of $Ga_{2-x}Fe_xO_3$ single crystals grown by a floating-zone method. <i>Physical Review B</i> , 2004, 70, . | 1.1 | 250 |
| 27 | Transient photoinduced ϵ phase in λ -manganite. <i>Nature Materials</i> , 2011, 10, 101-105. | 13.3 | 216 |
| 28 | Optical spectra in $(La,Y)TiO_3$: Variation of Mott-Hubbard gap features with change of electron correlation and band filling. <i>Physical Review B</i> , 1995, 51, 9581-9588. | 1.1 | 207 |
| 29 | Optical Study of Electronic Structure in Perovskite-Type RMO_3 ($R=La, Y; M=Sc, Ti, V, Cr, Mn, Fe, Co, Ni$). <i>Journal of Applied Physics</i> , 2003, 94, 074314. | 0.7 | 203 |
| 30 | Collinear to Spiral Spin Transformation without Changing the Modulation Wavelength upon Ferroelectric Transition in $Tb_{1-x}Dy_xMnO_3$. <i>Physical Review Letters</i> , 2006, 96, 097202. | 2.9 | 194 |
| 31 | Electric-field-induced generation and reversal of ferromagnetic moment in ferrites. <i>Nature Physics</i> , 2012, 8, 838-844. | 6.5 | 178 |
| 32 | New Classification Method for Layered Copper Oxide Compounds and Its Application to Design of New High-T _c Superconductors. <i>Japanese Journal of Applied Physics</i> , 1990, 29, 2388-2402. | 0.8 | 176 |
| 33 | Quantum Hall effect in a bulk antiferromagnet $EuMnBi_2$ with magnetically confined two-dimensional Dirac fermions. <i>Science Advances</i> , 2016, 2, e1501117. | 4.7 | 171 |
| 34 | Orbital Ordering and Magnetic Field Effect in MnV_2O_4 . <i>Physical Review Letters</i> , 2007, 98, 127203. | 2.9 | 163 |
| 35 | Perovskite manganites hosting versatile multiferroic phases with symmetric and antisymmetric exchange interactions. <i>Physical Review B</i> , 2010, 81, 104408. | 1.1 | 161 |
| 36 | Two-Dimensional Heisenberg Behavior of J in $Sr_{1-x}La_xMn_2O_7$ in the Paramagnetic State of the Spin-Orbital Mott Insulator. <i>Physical Review Letters</i> , 2007, 98, 127203. | 2.9 | 156 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Optical Magnetoelectric Effect in the Polar GaFeO ₃ Ferrimagnet. Physical Review Letters, 2004, 93, 037403. | 2.9 | 144 |
| 38 | Uniaxial stress control of skyrmion phase. Nature Communications, 2015, 6, 8539. | 5.8 | 143 |
| 39 | Displacement-Type Ferroelectricity with Off-Center Magnetic Ions in Perovskites $\text{Sr}^2+\text{A}^2-\text{B}_2\text{O}_6$. Physical Review Letters, 2011, 107, 137601. | 2.9 | 142 |
| 40 | Optical-phonon study of single crystals of various layered cuprates and related materials: Evidence of unique electron-phonon coupling in the CuO ₂ plane. Physical Review B, 1991, 43, 10496-10507. | 1.1 | 137 |
| 41 | Magnetoresistance in Metallic Crystals of La _{1-x} Sr _x CoO ₃ . Journal of the Physical Society of Japan, 1995, 64, 1885-1888. | 0.7 | 134 |
| 42 | Versatile helimagnetic phases under magnetic fields in cubic perovskite SrFeO_3 . Physical Review B, 2011, 84, 080408. | 1.1 | 132 |
| 43 | Chiral-lattice magnet moments in a pyrochlore iridate Eu_2O_3 . Physical Review B, 2012, 86, 080408. | 1.1 | 131 |
| 44 | Magnetic-field-induced transition in the lattice modulation of colossal magnetoelectric GdMnO_3 and TbMnO_3 compounds. Physical Review B, 2005, 72, 040408. | 1.1 | 127 |
| 45 | Possible skyrmion-lattice ground state in the chiral-lattice magnet MnGe as seen via small-angle neutron scattering. Physical Review B, 2012, 86, 080408. | 1.1 | 127 |
| 46 | NAOel-type Skyrmion Lattice in the Tetragonal Polar Magnet VOSe . Physical Review Letters, 2017, 119, 237201. | 2.9 | 127 |
| 47 | Electronic structure of PrNiO_3 studied by photoemission and x-ray-absorption spectroscopy: Band gap and orbital ordering. Physical Review B, 1995, 52, 13865-13873. | 1.1 | 119 |
| 48 | Spin-Driven Ferroelectricity and Magneto-Electric Effects in Frustrated Magnetic Systems. Journal of the Physical Society of Japan, 2011, 80, 052001. | 0.7 | 119 |
| 49 | Change of electronic structures with carrier doping in the highly correlated electron system $\text{Y}_{1-x}\text{Ca}_x\text{TiO}_3$. Physical Review B, 1993, 48, 511-518. | 1.1 | 117 |
| 50 | Control of the ferroelectric properties of DyMn_2O_5 by magnetic fields. Physical Review B, 2004, 70, 040408. | 1.1 | 114 |
| 51 | X-Ray Directional Dichroism of a Polar Ferrimagnet. Physical Review Letters, 2004, 92, 137401. | 2.9 | 113 |
| 52 | Doping- and pressure-induced change of electrical and magnetic properties in the Mott-Hubbard insulator LaTiO_3 . Physical Review B, 1993, 48, 9677-9683. | 1.1 | 109 |
| 53 | Tetrahedral Magnetic Order and the Metal-Insulator Transition in the Pyrochlore Lattice of Cd_2O_7 . Physical Review Letters, 2012, 108, 247205. | 0.9 | 109 |
| 54 | New double-sheet copper oxide compounds with BiO or TiO bilayers. Nature, 1989, 342, 890-893. | 13.7 | 108 |

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| 55 | Synchrotron x-ray-diffraction study of orbital ordering in YVO ₃ . Physical Review B, 2000, 62, R9271-R9274. | 1.1 | 105 |
| 56 | Magnetolectric coupling in the honeycomb antiferromagnet Co_4O_9 . Physical Review B, 2016, 93, . | 1.1 | 104 |
| 57 | Polarization Reversal in Multiferroic TbMnO_3 with a Rotating Magnetic Field Direction. Physical Review Letters, 2007, 99, 227206. | 2.9 | 101 |
| 58 | Optical-conductivity spectra of Sr _{1-x} La _x TiO ₃ : Filling-dependent effect of the electron correlation. Physical Review B, 1992, 46, 11167-11170. | 1.1 | 99 |
| 59 | Electrically driven spin excitation in the ferroelectric magnet DyMnO_3 . Physical Review B, 2008, 78, . | 1.1 | 99 |
| 60 | Structural and Magnetic Properties of Spinel FeV_2O_4 with Two Ions Having Orbital Degrees of Freedom. Journal of the Physical Society of Japan, 2008, 77, 053708. | 0.7 | 92 |
| 61 | Correlation between ferroelectric polarization and sense of helical spin order in multiferroic MnWO_4 . Physical Review B, 2008, 77, . | 1.1 | 90 |
| 62 | Thermodynamically stable skyrmion lattice at low temperatures in a bulk crystal of lacunar spinel GaV_4 . Physical Review B, 2017, 95, . | 1.1 | 90 |
| 63 | Rotation of orbital stripes and the consequent charge-polarized state in bilayer manganites. Nature Materials, 2006, 5, 937-941. | 13.3 | 89 |
| 64 | Skyrmion lattice structural transition in MnSi. Science Advances, 2017, 3, e1602562. | 4.7 | 89 |
| 65 | Magnetic Control of Crystal Chirality and the Existence of a Large Magneto-Optical Dichroism Effect in CuB_2O_7 . Physical Review Letters, 2008, 101, 117402. | 2.9 | 88 |
| 66 | Magneto-electric optics in non-centrosymmetric ferromagnets. Journal of Physics Condensed Matter, 2008, 20, 434211. | 0.7 | 86 |
| 67 | Polarization-dependent resonant-x-ray diffraction in charge- and orbital-ordering phase of Nd _{1/2} Sr _{1/2} MnO ₃ . Physical Review B, 1999, 60, 2425-2428. | 1.1 | 85 |
| 68 | LaMnO ₃ •SrMnO ₃ interfaces with coupled charge-spin-orbital modulation. Applied Physics Letters, 2006, 89, 052506. | 1.5 | 84 |
| 69 | Ferroelectric Polarization Reversal by a Magnetic Field in Multiferroic Y-type Hexaferrite Ba ₂ Mg ₂ Fe ₁₂ O ₂₂ . Applied Physics Express, 0, 1, 031301. | 1.1 | 84 |
| 70 | Evidence for an Electric-Dipole Active Continuum Band of Spin Excitations in Multiferroic TbMnO_3 . Physical Review Letters, 2008, 101, 187201. | 2.9 | 83 |
| 71 | Gigantic Optical Magnetolectric Effect in CuB_2O_4 . Journal of the Physical Society of Japan, 2008, 77, 013705. | 0.7 | 81 |
| 72 | Ferroelectric phase transitions of Eu_3d -spin origin in Eu_3Yx . Physical Review B, 2017, 95, . | 1.1 | 77 |

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| 73 | Electrical magnetochiral effect induced by chiral spin fluctuations. Nature Communications, 2017, 8, 866 | 5.8 | 76 |
| 74 | Orbital structures in spinel vanadates AV_2O_4 | | |

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| 91 | Periodic rotation of magnetization in a non-centrosymmetric soft magnet induced by an electric field. Nature Materials, 2009, 8, 634-638. | 13.3 | 59 |
| 92 | Time-Reversal Symmetry Breaking and Consequent Physical Responses Induced by All-In-All-Out Type Magnetic Order on the Pyrochlore Lattice. Journal of the Physical Society of Japan, 2013, 82, 013705. | 0.7 | 59 |
| 93 | Structural Assignment of Polarization in Hydrogen-Bonded Supramolecular Ferroelectrics. Journal of the American Chemical Society, 2007, 129, 12920-12921. | 6.6 | 58 |
| 94 | Weak antiferromagnetism of J_1 in bilayer iridate $SrIr_2O_7$. Physical Review B, 2012, 85, 080402. | 1.1 | 58 |
| 95 | Resonant Magnetolectric X-ray Scattering in $GaFeO_3$: Observation of Ordering of Toroidal Moments. Journal of the Physical Society of Japan, 2005, 74, 1419-1422. | 0.7 | 57 |
| 96 | Electric-dipole-active magnetic resonance in the conical-spin magnet $BaMn_2O_7$. Physical Review B, 2009, 80, 080402. | 1.1 | 57 |
| 97 | Temperature-dependent Raman scattering study of multiferroic $MnWO_4$. Journal of Raman Spectroscopy, 2010, 41, 1005-1010. | 1.2 | 57 |
| 98 | Resonant X-ray Diffraction Study of the Strongly Spin-Orbit-Coupled Mott Insulator $CaIrO_3$. Physical Review Letters, 2013, 110, 217212. | 2.9 | 57 |
| 99 | In-plane and out-of-plane thermal conductivity of $La_2\tilde{A} \text{Sr}\tilde{A} \text{CuO}_4$ single crystals. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1409-1410. | 0.6 | 56 |
| 100 | Change in charge and orbital alignment upon antiferromagnetic transition in the A-site-ordered perovskite manganese oxide $RBaMn_2O_6$ ($R = \text{Tb}$ and Sm). Physical Review B, 2002, 66, . | 1.1 | 55 |
| 101 | Nonlinear Magneto-Optical Kerr Rotation of an Oxide Superlattice with Artificially Broken Symmetry. Physical Review Letters, 2003, 90, 217403. | 2.9 | 55 |
| 102 | Optical spectra of $Pr_2\tilde{x}\text{Ce}_x\text{CuO}_4\tilde{y}$ crystals: Evolution of in-gap states with electron doping. Physical Review B, 1993, 48, 6597-6603. | 1.1 | 53 |
| 103 | Magnetic structures and excitations in a multiferroic Y-type hexaferrite $BaSrCo_2\text{O}_{10}$. Physical Review B, 2016, 94, . | 1.1 | 52 |
| 104 | Current-induced Nucleation and Annihilation of Magnetic Skyrmions at Room Temperature in a Chiral Magnet. Advanced Materials, 2017, 29, 1606178. | 11.1 | 53 |
| 105 | Charge-orbital ordering near the multicritical point in A-site ordered perovskites $\text{SmBaMn}_2\text{O}_6$ and $\text{NdBaMn}_2\text{O}_6$. Physical Review B, 2004, 70, . | 1.1 | 52 |
| 106 | Two distinct ferroelectric phases in the multiferroic $Y\text{-type hexaferrite}$. Physical Review B, 2009, 80, . | 1.1 | 52 |
| 107 | Magnetic-Field-Induced Polarization Flip in Multiferroic $BaMn_2O_7$. Physical Review Letters, 2009, 103, 077204. | 1.1 | 51 |
| 108 | Observation of the High-Tc Phase and Determination of the Pb Position in a Bi-Pb-Sr-Ca-Cu Oxide Superconductor. Japanese Journal of Applied Physics, 1989, 28, L57-L59. | 0.8 | 50 |

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| 109 | Pressure dependence of T_c in the MgB_2 superconductor as probed by resistivity measurements. Journal of Physics Condensed Matter, 2001, 13, L267-L270. | 0.7 | 50 |
| 110 | Magnetic Biasing of a Ferroelectric Hysteresis Loop in a Multiferroic Orthoferrite. Physical Review Letters, 2014, 112, 037203. | 2.9 | 49 |
| 111 | Extended family of new Bi-2222 superconducting cuprates $Bi_2Sr_2(RE_{1-x}Ce_x)_2Cu_2O_{10+y}$, RE=rare earth. Physica C: Superconductivity and Its Applications, 1990, 168, 79-84. | 0.6 | 48 |
| 112 | Effect of randomness on ferroelastic transitions: Disorder-induced hysteresis loop rounding in Ti-Nb-O martensitic alloy. Physical Review B, 2010, 82, . | 1.1 | 48 |
| 113 | Spin-wave spectroscopy of the Dzyaloshinskii-Moriya interaction in room-temperature chiral magnets hosting skyrmions. Physical Review B, 2017, 95, . | 1.1 | 48 |
| 114 | Optical Magnetoelectric Effect of Patterned Oxide Superlattices with Ferromagnetic Interfaces. Physical Review Letters, 2007, 99, 197404. | 2.9 | 47 |
| 115 | Charge/Orbital Ordering Structure of $Pr_{1-x}Ca_xMnO_3$ ($x=3/8$) Examined by Low-Temperature Transmission Electron Microscopy. Physical Review Letters, 2002, 88, 097201. | 2.9 | 46 |
| 116 | Enhanced Optical Magnetoelectric Effect in a Patterned Polar Ferrimagnet. Physical Review Letters, 2006, 96, 167202. | 2.9 | 46 |
| 117 | Ferrimagnetism and spontaneous ordering of transition metals in double perovskite $La_{2-x}Mn_2Cr_xFe_xO_{10}$ films. Physical Review B, 2011, 84, . | 1.1 | 46 |
| 118 | A new homologous series of oxycarbonate superconductors $Sr_2(Ca,Sr)_{n-1}Cu_n(CO_3)_{n-1}(BO_3)_yO_z$ ($n=1, 2$). Physical Review Letters, 2006, 96, 167202. | 0.6 | 45 |
| 119 | Application of a portable pulsed magnet to synchrotron radiation experiments. Physica B: Condensed Matter, 2004, 346-347, 519-523. | 1.3 | 44 |
| 120 | Epitaxial-strain effect on charge/orbital order in $Pr_{0.5}Ca_{0.5}MnO_3$ films. Applied Physics Letters, 2009, 95, 152502. | 1.5 | 43 |
| 121 | Magnon dispersion shift in the induced ferromagnetic phase of noncentrosymmetric MnSi. Physical Review B, 2016, 94, . | 1.1 | 43 |
| 122 | Deformation of Topologically-Protected Supercooled Skyrmions in a Thin Plate of Chiral Magnet $Co_8Zn_8Mn_4$. Nano Letters, 2017, 17, 1637-1641. | 4.5 | 42 |
| 123 | Crystallographic superstructure of Ti-doped hexagonal $YMnO_3$. Physical Review B, 2005, 71, . | 1.1 | 41 |
| 124 | Colossal electroresistance effect at metal electrode/ $La_{1-x}Sr_xMnO_4$ interfaces. Applied Physics Letters, 2006, 88, 223507. | 1.5 | 41 |
| 125 | Formation and control of magnetic vortex chirality in patterned micromagnet arrays. Journal of Applied Physics, 2008, 103, 023904. | 1.1 | 41 |
| 126 | Ferroelectric-like metallic state in electron doped $BaTiO_3$. Scientific Reports, 2015, 5, 13207. | 1.6 | 41 |

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|-----|---|-----|-----------|
| 127 | Electronic Structure of Layered Perovskite LaSrMO ₄ (M=Cr, Mn, Fe and Co). Journal of the Physical Society of Japan, 1995, 64, 4117-4120. | 0.7 | 40 |
| 128 | Direct observation of orbital ordering in the spinel oxide FeCr_2O_4 electrostatic potential using convergent-beam electron diffraction. Physical Review B, 2010, 81, . | 1.1 | 40 |
| 129 | $\text{Co}_4\text{Nb}_2\text{O}_{12}$ | 1.1 | 40 |
| 130 | Impurity-induced transition to a Mott insulator in Sr ₃ Ru ₂ O ₇ . Physical Review B, 2005, 72, . | 1.1 | 38 |
| 131 | Multiferroicity in NiBr ₂ with long-wavelength cycloidal spin structure on a triangular lattice. Physical Review B, 2011, 84, . | 1.1 | 38 |
| 132 | All-In-Out Magnetic Domains: X-Ray Diffraction Imaging and Magnetic Field Control. Physical Review Letters, 2015, 114, 147205. | 2.9 | 38 |
| 133 | Optical Study of Metal-Insulator Transition in SmBaCo ₂ O ₆ - $\hat{\Gamma}$ Single Crystal. Journal of the Physical Society of Japan, 2000, 69, 3525-3528. | 0.7 | 37 |
| 134 | Direct Imaging of Temperature-Dependent Layered Antiferromagnetism of a Magnetic Oxide. Physical Review Letters, 2004, 93, 107201. | 2.9 | 37 |
| 135 | Motion tracking of 80-nm-size skyrmions upon directional current injections. Science Advances, 2020, 6, eaaz9744. | 4.7 | 37 |
| 136 | Observation of the antiferroquadrupolar order in DyB ₂ C ₂ by resonant x-ray scattering. Physical Review B, 2002, 65, . | 1.1 | 36 |
| 137 | Electron scattering times in ZnO based polar heterostructures. Applied Physics Letters, 2015, 107, . | 1.5 | 36 |
| 138 | Charge/Orbital Ordering Structure in Ordered Perovskite Sm _{1/2} Ba _{1/2} MnO ₃ . Journal of the Physical Society of Japan, 2002, 71, 2605-2608. | 0.7 | 35 |
| 139 | Control of the Magnetoelectric Domain-Wall Stability by a Magnetic Field in a Multiferroic $\text{Sr}_4\text{MnWO}_{12}$. Physical Review Letters, 2008, 101, 207205. | 2.9 | 35 |
| 140 | Soft phonon mode coupled with antiferromagnetic order in incipient-ferroelectric Mott insulators SmBaMnO_5 | 1.1 | 35 |
| 141 | Spin and Orbital Contributions to Magnetically Ordered Moments in 5d Layered Perovskite Sr ₂ IrO ₄ . Physical Review Letters, 2014, 112, 016405. | 2.9 | 35 |
| 142 | Femtosecond activation of magnetoelectricity. Nature Physics, 2018, 14, 370-374. | 6.5 | 35 |
| 143 | Structural and spectroscopic properties of pressure-induced C 70 polymers. Applied Physics A: Materials Science and Processing, 1997, 64, 251-256. | 1.1 | 34 |
| 144 | Spin Lattice Coupling in Ferroelectric Spiral Magnets: Comparison between the Cases of (Tb,Dy)MnO ₃ and CoCr ₂ O ₄ . Journal of the Physical Society of Japan, 2007, 76, 023602. | 0.7 | 33 |

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| 145 | Control of the polarization flop direction by a tilted magnetic field in multiferroic TbMnO_3 . Physical Review B, 2009, 80, . | 1.1 | 33 |
| 146 | Orbital dilution effect in ferrimagnetic $\text{FeMnCr}_2\text{O}_4$: competition between anharmonic lattice potential and spin-orbit coupling. Journal of Physics Condensed Matter, 2010, 22, 176003. | 0.7 | 33 |
| 147 | Dynamical process of skyrmion-helical magnetic transformation of the chiral-lattice magnet FeGe probed by small-angle resonant soft x-ray scattering. Physical Review B, 2015, 92, . | 1.1 | 33 |
| 148 | Commensurate-Incommensurate Crossover of Charge Stripe in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$ ($x \approx 1/3$). Physical Review Letters, 2004, 92, 196404. | 2.9 | 32 |
| 149 | Far-infrared optical study of electromagnons and their coupling to optical phonons in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_4$. Physical Review Letters, 2004, 92, 196404. | | |

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|-----|--|-----|-----------|
| 163 | Interplay among spin, orbital, and lattice degrees of freedom in a frustrated spinel Mn ₄ and Geometrical Frustration in the Spinel Vanadate Physical Review B, 2019, 100, . | 2.9 | 46 |
| 164 | Magnetic control of order and polarization in the noncentrosymmetric layered framework (Cu, Ni)B ₂ O ₇ Physical Review B, 2013, 87, . | 1.1 | 26 |
| 165 | All-in-all-out magnetic domain wall conduction in a pyrochlore iridate heterointerface. Physical Review B, 2016, 93, . | 1.1 | 26 |
| 167 | Strain-sensitive spin-state ordering in thin films of perovskite LaCoO ₃ Physical Review B, 2015, 92, . | 1.1 | 25 |
| 168 | A charge-disproportionate ordered state with $\hat{\Gamma} = 0.75$ in a chemically sensitive donor/acceptor D _{2h} layered framework. Chemical Communications, 2015, 51, 7795-7798. | 2.2 | 25 |
| 169 | Physical properties and crystal structure analysis of double-perovskite NdBaMn ₂ O ₆ by using single crystals. Physical Review B, 2017, 95, . | 1.1 | 25 |
| 170 | Topological spin-hedgehog crystals of a chiral magnet as engineered with magnetic anisotropy. Physical Review B, 2017, 96, . | 1.1 | 25 |
| 171 | Magnetic and crystal structures of polar ferrimagnet Ga _{2-x} Fe _x O ₃ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 555-556. | 1.0 | 24 |
| 172 | Charge-ordered domain structure in YbFe ₂ O ₄ observed by energy-filtered transmission electron microscopy. Physical Review B, 2007, 76, . | 1.1 | 24 |
| 173 | Three-dimensional Near-surface Imaging of Chirality Domains with Circularly Polarized X-rays. Angewandte Chemie - International Edition, 2013, 52, 8718-8721. | 7.2 | 24 |
| 174 | Emergence and magnetic-field variation of chiral-soliton lattice and skyrmion lattice in the strained helimagnet Cu ₂ OSeO ₃ . Physical Review B, 2017, 96, . | 1.1 | 24 |
| 175 | Dielectric Spectra in Charge Ordering State of Pr _{1-x} Ca _x MnO ₃ . Journal of the Physical Society of Japan, 1999, 68, 3701-3707. | 0.7 | 23 |
| 176 | All-in-all-out magnetic domain size in pyrochlore iridate thin films as probed by local magnetotransport. Applied Physics Letters, 2016, 108, . | 1.5 | 23 |
| 177 | Anisotropic magnetodielectric coupling in antiferromagnet Co ₄ Nb ₂ O ₉ . Applied Physics Letters, 2019, 114, . | 1.5 | 23 |
| 178 | Hole Donors in the High-T _c Phase of a Bi-Pb-Sr-Ca-Cu Oxide Superconductor. Japanese Journal of Applied Physics, 1989, 28, L187-L189. | 0.8 | 22 |
| 179 | Pressure dependence of charge-transfer-type gaps in CuO ₂ layered compounds. Physical Review B, 1992, 45, 7580-7583. | 1.1 | 22 |
| 180 | Optical Magnetoelectric Effect in a Submicron Patterned Magnet. Physical Review Letters, 2005, 94, 077205. | 2.9 | 22 |

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| 181 | Complex orbital state stabilized by strong spin-orbit coupling in a metallic iridium oxide IrO_2 . Physical Review B, 2013, 87, . | 1.1 | 22 |
| 182 | Multi-spin-state dynamics during insulator-metal crossover in LaCoO_3 . Physical Review B, 2014, 90, . | 1.1 | 22 |
| 183 | Large trigonal-field effect on spin-orbit coupled states in a pyrochlore iridate. Physical Review B, 2015, 92, . | 1.1 | 22 |
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