# Shuai Dong

## List of Publications by Citations



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|---|---|---|---|
| 273 papers | 7,275 citations | 40 h-index | 74 g-index |
| 293 ext. papers | 8,584 ext. citations | 4.8 avg, IF | 6.22 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 273 | Visible-Light Photocatalytic Properties of Weak Magnetic BiFeO3 Nanoparticles. *Advanced Materials*, **2007**, 19, 2889-2892 | 24 | 745 |
| 272 | High-Performance Photothermal Conversion of Narrow-Bandgap Ti O Nanoparticles. *Advanced Materials*, **2017**, 29, 1603730 | 24 | 529 |
| 271 | Multiferroic materials and magnetoelectric physics: symmetry, entanglement, excitation, and topology. *Advances in Physics*, **2015**, 64, 519-626 | 18.4 | 486 |
| 270 | Multiferroic properties of CaMn7O12. *Physical Review B*, **2011**, 84, | 3.3 | 132 |
| 269 | Exchange bias driven by the Dzyaloshinskii-Moriya interaction and ferroelectric polarization at G-type antiferromagnetic perovskite interfaces. *Physical Review Letters*, **2009**, 103, 127201 | 7.4 | 124 |
| 268 | Ferromagnetic tendency at the surface of CE-type charge-ordered manganites. *Physical Review B*, **2008**, 78, | 3.3 | 116 |
| 267 | Surface phase separation in nanosized charge-ordered manganites. *Applied Physics Letters*, **2007**, 90, 082508 | 3.4 | 108 |
| 266 | Tunneling electroresistance induced by interfacial phase transitions in ultrathin oxide heterostructures. *Nano Letters*, **2013**, 13, 5837-43 | 11.5 | 106 |
| 265 | Type-II Multiferroic HfVCF MXene Monolayer with High Transition Temperature. *Journal of the American Chemical Society*, **2018**, 140, 9768-9773 | 16.4 | 105 |
| 264 | Origin of multiferroic spiral spin order in the RMnO3 perovskites. *Physical Review B*, **2008**, 78, | 3.3 | 100 |
| 263 | Surface Vacancy-Induced Switchable Electric Polarization and Enhanced Ferromagnetism in Monolayer Metal Trihalides. *Nano Letters*, **2018**, 18, 2943-2949 | 11.5 | 94 |
| 262 | RECENT PROGRESS OF MULTIFERROIC PEROVSKITE MANGANITES. *Modern Physics Letters B*, **2012**, 26, 1230004 | 1.6 | 93 |
| 261 | Giant ferroelectric polarization of CaMn7O12 induced by a combined effect of Dzyaloshinskii-Moriya interaction and exchange striction. *Physical Review Letters*, **2012**, 108, 187204 | 7.4 | 92 |
| 260 | Charge-order breaking and ferromagnetism in La0.4Ca0.6MnO3 nanoparticles. *Applied Physics Letters*, **2007**, 91, 032502 | 3.4 | 92 |
| 259 | Correlating interfacial octahedral rotations with magnetism in (LaMnO3+δN/(SrTiO3)N superlattices. *Nature Communications*, **2014**, 5, 4283 | 17.4 | 87 |
| 258 | Ferroelectricity in Covalently functionalized Two-dimensional Materials: Integration of High-mobility Semiconductors and Nonvolatile Memory. *Nano Letters*, **2016**, 16, 7309-7315 | 11.5 | 83 |
| 257 | Observation of Magnetoelectric Multiferroicity in a Cubic Perovskite System: LaMn(3)Cr(4)O(12). *Physical Review Letters*, **2015**, 115, 087601 | 7.4 | 79 |

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| 256 | Magnetism, conductivity, and orbital order in (LaMnO3)2n/(SrMnO3)n superlattices. *Physical Review B*, **2008**, 78, | 3.3 | 75 |
| 255 | Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. *Science Advances*, **2019**, 5, eaav3780 | 14.3 | 74 |
| 254 | Preparation of La-doped BiFeO3 thin films with Fe2+ ions on Si substrates. *Journal of Applied Physics*, **2006**, 99, 094105 | 2.5 | 68 |
| 253 | Cluster-glass state in manganites induced by A-site cation-size disorder. *Physical Review B*, **2006**, 73, | 3.3 | 66 |
| 252 | Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation. *Physical Review Letters*, **2015**, 114, 256801 | 7.4 | 64 |
| 251 | Magnetoelectricity in multiferroics: a theoretical perspective. *National Science Review*, **2019**, 6, 629-641 | 10.8 | 62 |
| 250 | Hexagonal rare-earth manganites as promising photovoltaics and light polarizers. *Physical Review B* , **2015**, 92, | 3.3 | 62 |
| 249 | Prediction of a two-dimensional high-TC f-electron ferromagnetic semiconductor. *Materials Horizons*, **2020**, 7, 1623-1630 | 14.4 | 59 |
| 248 | BaFe(2)Se(3) a high T(C) magnetic multiferroic with large ferrielectric polarization. *Physical Review Letters*, **2014**, 113, 187204 | 7.4 | 54 |
| 247 | Magnetoelectric coupling at the interface of BiFeO3/La0.7Sr0.3MnO3 multilayers. *Physical Review B*, **2011**, 84, | 3.3 | 54 |
| 246 | Surface Electronic Structure of Hybrid Organo Lead Bromide Perovskite Single Crystals. *Journal of Physical Chemistry C*, **2016**, 120, 21710-21715 | 3.8 | 52 |
| 245 | Monte Carlo simulation of magnetic behavior of a spin-chain system on a triangular lattice. *Physical Review B*, **2006**, 74, | 3.3 | 52 |
| 244 | High Curie-temperature intrinsic ferromagnetism and hole doping-induced half-metallicity in two-dimensional scandium chlorine monolayers. *Nanoscale Horizons*, **2018**, 3, 551-555 | 10.8 | 49 |
| 243 | Microscopic model for the ferroelectric field effect in oxide heterostructures. *Physical Review B*, **2011**, 84, | 3.3 | 48 |
| 242 | Steplike magnetization of spin chains in a triangular lattice: Monte Carlo simulations. *Physical Review B*, **2006**, 73, | 3.3 | 47 |
| 241 | In-Plane Ferroelectricity in Thin Flakes of Van der Waals Hybrid Perovskite. *Advanced Materials*, **2018**, 30, e1803249 | 24 | 45 |
| 240 | Superconductivity of monolayer MoC: The key role of functional groups. *Journal of Chemical Physics* , **2017**, 146, 034705 | 3.9 | 44 |
| 239 | Full control of magnetism in a manganite bilayer by ferroelectric polarization. *Physical Review B*, **2013**, 88, | 3.3 | 44 |

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| 238 | Quantum confinement induced magnetism in LaNiO3-LaMnO3 superlattices. *Physical Review B*, **2013**, 87, | 3.3 | 44 |
| 237 | Hexagonal phase stabilization and magnetic orders of multiferroic Lu1−ScxFeO3. *Physical Review B*, **2016**, 93, | 3.3 | 43 |
| 236 | Chemical ordering suppresses large-scale electronic phase separation in doped manganites. *Nature Communications*, **2016**, 7, 11260 | 17.4 | 43 |
| 235 | Electronic structure and stability of the CH3NH3PbBr3 (001) surface. *Physical Review B*, **2016**, 94, | 3.3 | 42 |
| 234 | Magnetic phase diagram and multiferroicity of Ba3MnNb2O9: A spin-52 triangular lattice antiferromagnet with weak easy-axis anisotropy. *Physical Review B*, **2014**, 90, | 3.3 | 42 |
| 233 | Promoting polysulfide redox reactions and improving electronic conductivity in lithium–sulfur batteries via hierarchical cathode materials of graphene-wrapped porous TiO2 microspheres with exposed (001) facets. *Journal of Materials Chemistry A*, **2018**, 6, 16574-16582 | 13 | 40 |
| 232 | Ho substitution suppresses collinear Dy spin order and enhances polarization in DyMnO3. *Applied Physics Letters*, **2011**, 99, 102509 | 3.4 | 39 |
| 231 | Hydroxylation of the Rutile TiO2(110) Surface Enhancing Its Reducing Power for Photocatalysis. *Journal of Physical Chemistry C*, **2015**, 119, 1451-1456 | 3.8 | 38 |
| 230 | Visualization of a ferromagnetic metallic edge state in manganite strips. *Nature Communications*, **2015**, 6, 6179 | 17.4 | 38 |
| 229 | Experimental observation of ferrielectricity in multiferroic DyMn2O5. *Scientific Reports*, **2014**, 4, 3984 | 4.9 | 36 |
| 228 | Strain-enhanced superconductivity of MoX2(X=S?or Se) bilayers with Na intercalation. *Physical Review B*, **2016**, 93, | 3.3 | 36 |
| 227 | Direct observation of ferroelectricity in Ca3Mn2O7 and its prominent light absorption. *Applied Physics Letters*, **2018**, 113, 022902 | 3.4 | 35 |
| 226 | Striped multiferroic phase in double-exchange model for quarter-doped manganites. *Physical Review Letters*, **2009**, 103, 107204 | 7.4 | 35 |
| 225 | Polarization enhancement and ferroelectric switching enabled by interacting magnetic structures in DyMnO3 thin films. *Scientific Reports*, **2013**, 3, 3374 | 4.9 | 34 |
| 224 | Multiferroic response and clamped domain structure in a two-dimensional spiral magnet: Monte Carlo simulation. *Physical Review B*, **2008**, 77, | 3.3 | 34 |
| 223 | Specific heat anomalies and possible Griffiths-like phase in La0.4Ca0.6MnO3 nanoparticles. *Journal of Applied Physics*, **2008**, 103, 07F714 | 2.5 | 34 |
| 222 | Inversion of Ferrimagnetic Magnetization by Ferroelectric Switching via a Novel Magnetoelectric Coupling. *Physical Review Letters*, **2016**, 117, 037601 | 7.4 | 33 |
| 221 | Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in BiMn Cr O. *Advanced Materials*, **2017**, 29, 1703435 | 24 | 32 |

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| 220 | Prediction of above 20 K superconductivity of blue phosphorus bilayer with metal intercalations. *2D Materials*, **2016**, 3, 035006 | 5.9 | 32 |
| 219 | Anomalous polarization switching and permanent retention in a ferroelectric ionic conductor. *Materials Horizons*, **2020**, 7, 263-274 | 14.4 | 32 |
| 218 | Interface-induced multiferroism by design in complex oxide superlattices. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E5062-E5069 | 11.5 | 31 |
| 217 | Pulsed Laser Deposition of CsPbBr3 Films for Application in Perovskite Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 2305-2312 | 6.1 | 31 |
| 216 | Pressure-driven phase transition from antiferromagnetic semiconductor to nonmagnetic metal in the two-leg ladders AFe2X3 (A=Ba,K; X=S,Se). *Physical Review B*, **2017**, 95, | 3.3 | 31 |
| 215 | Electrophoretic-like gating used to control metal-insulator transitions in electronically phase separated manganite wires. *Nano Letters*, **2013**, 13, 3749-54 | 11.5 | 31 |
| 214 | Charge order suppression and weak ferromagnetism in La1−xSr2+xFeO3 nanoparticles. *Applied Physics Letters*, **2007**, 91, 072504 | 3.4 | 31 |
| 213 | Frustrated Dipole Order Induces Noncollinear Proper Ferrielectricity in Two Dimensions. *Physical Review Letters*, **2019**, 123, 067601 | 7.4 | 30 |
| 212 | Highly anisotropic resistivities in the double-exchange model for strained manganites. *Physical Review B*, **2010**, 82, | 3.3 | 30 |
| 211 | Synthesis and characterization of La0.825Sr0.175MnO3nanowires. *Journal of Physics Condensed Matter*, **2005**, 17, L467-L475 | 1.8 | 30 |
| 210 | Ferroelectricity of polycrystalline GdMnO3 and multifold magnetoelectric responses. *Applied Physics A: Materials Science and Processing*, **2013**, 112, 947-954 | 2.6 | 29 |
| 209 | Charge transfer and hybrid ferroelectricity in (YFeO3)n/(YTiO3)n magnetic superlattices. *Physical Review B*, **2015**, 91, | 3.3 | 29 |
| 208 | Ru-doping-induced ferromagnetism in charge-ordered La0.4Ca0.6MnO3. *Physical Review B*, **2009**, 79, | 3.3 | 29 |
| 207 | A-site disorder induced collapse of charge-ordered state and phase separated phase in manganites. *Applied Physics Letters*, **2006**, 89, 222505 | 3.4 | 29 |
| 206 | Hysteresis loop area of the Ising model. *Physical Review B*, **2004**, 70, | 3.3 | 29 |
| 205 | Coupled ferroelectric polarization and magnetization in spinel FeCr2S4. *Scientific Reports*, **2014**, 4, 6530 | 4.9 | 28 |
| 204 | Temperature dependent coercivity and magnetization of light rare-earth Nd doped permalloy thin films. *Journal of Magnetism and Magnetic Materials*, **2015**, 374, 711-715 | 2.8 | 28 |
| 203 | Novel multiferroicity in GdMnO3 thin films with self-assembled nano-twinned domains. *Scientific Reports*, **2014**, 4, 7019 | 4.9 | 28 |

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| 202 | Block antiferromagnetism and checkerboard charge ordering in the alkali-doped iron selenides R1□Fe2□Se2. *Physical Review B*, **2012**, 85, | 3.3 | 28 |
| 201 | Mean-field theory for ferroelectricity in Ca3CoMnO6. *Physical Review B*, **2009**, 79, | 3.3 | 28 |
| 200 | Dielectrophoresis model for the colossal electroresistance of phase-separated manganites. *Physical Review B*, **2007**, 76, | 3.3 | 28 |
| 199 | Sequential structural and antiferromagnetic transitions in BaFe2Se3 under pressure. *Physical Review B*, **2018**, 97, | 3.3 | 27 |
| 198 | Electronic and magnetic properties of RMnO3/AMnO3 heterostructures. *Physical Review B*, **2009**, 80, | 3.3 | 26 |
| 197 | Multiferroic phase diagram of Y partially substituted Dy1□YxMnO3. *Applied Physics Letters*, **2011**, 98, 012510 | 3.4 | 26 |
| 196 | Challenges in band alignment between semiconducting materials: A case of rutile and anatase TiO2. *Progress in Natural Science: Materials International*, **2019**, 29, 277-284 | 3.6 | 25 |
| 195 | Topological magnetic phase in LaMnO3 (111) bilayer. *Physical Review B*, **2015**, 92, | 3.3 | 24 |
| 194 | Versatile Titanium Silicide Monolayers with Prominent Ferromagnetic, Catalytic, and Superconducting Properties: Theoretical Prediction. *Journal of Physical Chemistry Letters*, **2016**, 7, 3723-3729 | 6.4 | 24 |
| 193 | A 0D Lead-Free Hybrid Crystal with Ultralow Thermal Conductivity. *Advanced Functional Materials*, **2019**, 29, 1809166 | 15.6 | 23 |
| 192 | Short-range spin and charge correlations and local density of states in the colossal magnetoresistance regime of the single-orbital model for manganites. *Physical Review B*, **2008**, 77, | 3.3 | 23 |
| 191 | Microscopic simulation of the percolation of manganites. *Applied Physics Letters*, **2005**, 86, 022501 | 3.4 | 23 |
| 190 | Tuning Magnetism in Layered Magnet VI3: A Theoretical Study. *Journal of Physical Chemistry C*, **2019**, 123, 30545-30550 | 3.8 | 23 |
| 189 | Revealing Controllable Anisotropic Magnetoresistance in Spin□Orbit Coupled Antiferromagnet Sr2IrO4. *Advanced Functional Materials*, **2018**, 28, 1706589 | 15.6 | 22 |
| 188 | Synthesis of Wurtzite CuZnSnS Nanosheets with Exposed High-Energy (002) Facets for Fabrication of Efficient Pt-Free Solar Cell Counter Electrodes. *Scientific Reports*, **2018**, 8, 248 | 4.9 | 22 |
| 187 | Ab initio study of the intrinsic exchange bias at the SrRuO3/SrMnO3 interface. *Physical Review B*, **2011**, 84, | 3.3 | 22 |
| 186 | Electric-dipole effect of defects on the energy band alignment of rutile and anatase TiO□*Physical Chemistry Chemical Physics*, **2015**, 17, 29079-84 | 3.6 | 21 |
| 185 | Nanoscale Chemical and Valence Evolution at the Metal/Oxide Interface: A Case Study of Ti/SrTiO3. *Advanced Materials Interfaces*, **2016**, 3, 1600201 | 4.6 | 21 |

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| 184 | Orthorhombic Ti2O3: A Polymorph-Dependent Narrow-Bandgap Ferromagnetic Oxide. *Advanced Functional Materials*, **2018**, 28, 1705657 | 15.6 | 21 |
| 183 | Dual gate control of bulk transport and magnetism in the spin-orbit insulator Sr2IrO4. *Physical Review B*, **2015**, 91, | 3.3 | 20 |
| 182 | Observation of superconductivity in structure-selected Ti2O3 thin films. *NPG Asia Materials*, **2018**, 10, 522-532 | 10.3 | 20 |
| 181 | Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. *Nature Communications*, **2019**, 10, 3149 | 17.4 | 20 |
| 180 | Nonmagnetic B-site impurity-induced ferromagnetic tendency in CE-type manganites. *Physical Review B*, **2009**, 79, | 3.3 | 20 |
| 179 | Room-Temperature Ferroelectricity in Group-IV Metal Chalcogenide Nanowires. *Journal of the American Chemical Society*, **2019**, 141, 15040-15045 | 16.4 | 19 |
| 178 | Giant anisotropic magnetoresistance and nonvolatile memory in canted antiferromagnet SrIrO. *Nature Communications*, **2019**, 10, 2280 | 17.4 | 19 |
| 177 | Appearance and disappearance of ferromagnetism in ultrathin LaMnO3 on SrTiO3 substrate: A viewpoint from first principles. *Physical Review B*, **2017**, 96, | 3.3 | 19 |
| 176 | Jahn-Teller distortion induced charge ordering in the CE phase of manganites. *Physical Review B*, **2006**, 73, | 3.3 | 19 |
| 175 | Influence of drying temperature on morphology of MAPbI3 thin films and the performance of solar cells. *Journal of Alloys and Compounds*, **2019**, 773, 511-518 | 5.7 | 19 |
| 174 | The ferroelectric polarization of Y2CoMnO6 aligns along the b-axis: the first-principles calculations. *Physical Chemistry Chemical Physics*, **2015**, 17, 20961-70 | 3.6 | 18 |
| 173 | Similarities and differences between nickelate and cuprate films grown on a SrTiO3 substrate. *Physical Review B*, **2020**, 102, | 3.3 | 18 |
| 172 | Magnetoelectricity coupled exchange bias in BaMnF4. *Scientific Reports*, **2015**, 5, 18392 | 4.9 | 18 |
| 171 | Ferroelectric control of magnetism and transport in oxide heterostructures. *Modern Physics Letters B*, **2014**, 28, 1430010 | 1.6 | 18 |
| 170 | Spin persistence in an antiferromagnetic triangular Ising lattice under a magnetic field. *Physical Review B*, **2007**, 76, | 3.3 | 18 |
| 169 | Competing Interfacial Reconstruction Mechanisms in La0.7Sr0.3MnO3/SrTiO3 Heterostructures. *ACS Applied Materials & Interfaces*, **2016**, 8, 24192-7 | 9.5 | 18 |
| 168 | Facet engineering of monodisperse PbS nanocrystals with shape- and facet-dependent photoresponse activity. *RSC Advances*, **2016**, 6, 107151-107157 | 3.7 | 17 |
| 167 | Ferroelectricity generated by spin-orbit and spin-lattice couplings in multiferroic DyMnO3. *Frontiers of Physics*, **2012**, 7, 408-417 | 3.7 | 17 |

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| 166 | Enhancement of ferroelectricity in Cr-doped Ho2Ti2O7. *Applied Physics Letters*, **2010**, 96, 242904 | 3.4 | 17 |
| 165 | Enhanced polarization and magnetoelectric response in Tb1− Ho x MnO3. *Applied Physics A: Materials Science and Processing*, **2010**, 99, 323-331 | 2.6 | 17 |
| 164 | Electric field induced collapse of the charge-ordered phase in manganites. *Journal of Physics Condensed Matter*, **2007**, 19, 266202 | 1.8 | 17 |
| 163 | Improving the photocatalytic activity of TiO2 through reduction. *RSC Advances*, **2015**, 5, 35661-35666 | 3.7 | 16 |
| 162 | Strain-engineered magnetic order in (LaMnO3)n/(SrMnO3)2n superlattices. *Physical Review B*, **2012**, 86, | 3.3 | 16 |
| 161 | Spin frustration destruction and ferroelectricity modulation in Ca3CoMnO6: Effects of Mn deficiency. *Journal of Applied Physics*, **2012**, 111, 07D901 | 2.5 | 16 |
| 160 | Ferromagnetic metal to cluster-glass insulator transition induced by A-site disorder in manganites. *Applied Physics Letters*, **2006**, 88, 152505 | 3.4 | 16 |
| 159 | Possible emergence of a skyrmion phase in ferroelectric GaMo4S8. *Physical Review B*, **2019**, 99, | 3.3 | 15 |
| 158 | Magnetic borophenes from an evolutionary search. *Physical Review B*, **2019**, 99, | 3.3 | 15 |
| 157 | First-principles study of the low-temperature charge density wave phase in the quasi-one-dimensional Weyl chiral compound (TaSe4)2I. *Physical Review B*, **2020**, 101, | 3.3 | 15 |
| 156 | Direct observation of current-induced conductive path in colossal-electroresistance manganite thin films. *Physical Review B*, **2016**, 93, | 3.3 | 15 |
| 155 | Ferroelectricity driven magnetism at domain walls in LaAlO3/PbTiO3 superlattices. *Scientific Reports*, **2015**, 5, 13052 | 4.9 | 15 |
| 154 | Multiferroicity in spin ice Ho2Ti2O7: An investigation on single crystals. *Journal of Applied Physics*, **2013**, 113, 17D901 | 2.5 | 15 |
| 153 | Emergent dimensional reduction of the spin sector in a model for narrow-band manganites. *Physical Review B*, **2011**, 84, | 3.3 | 15 |
| 152 | Ferroelectricity and ferromagnetism in a VOI2 monolayer: Role of the Dzyaloshinskii-Moriya interaction. *Physical Review B*, **2020**, 102, | 3.3 | 15 |
| 151 | Magnetization switching in the BiFe0.9Mn0.1O3 thin films modulated by resistive switching process. *Applied Physics Letters*, **2016**, 109, 112903 | 3.4 | 15 |
| 150 | Application of Compact TiO2 Layer Fabricated by Pulsed Laser Deposition in Organometal Trihalide Perovskite Solar Cells. *Solar Rrl*, **2018**, 2, 1800097 | 7.1 | 14 |
| 149 | Photocatalytic Behavior of Fluorinated Rutile TiO2(110) Surface: Understanding from the Band Model. *Solar Rrl*, **2017**, 1, 1700183 | 7.1 | 14 |

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| 148 | Cycloidal magnetism driven ferroelectricity in double tungstate LiFe(WO4)2. *Physical Review B*, **2017**, 95, | 3.3 | 14 |
| 147 | Prediction of two-dimensional ferromagnetic ferroelectric VOF monolayer. *Physical Chemistry Chemical Physics*, **2020**, 22, 24109-24115 | 3.6 | 14 |
| 146 | Enhancing the Spin-Orbit Coupling in FeO Epitaxial Thin Films by Interface Engineering. *ACS Applied Materials & Interfaces*, **2016**, 8, 27353-27359 | 9.5 | 14 |
| 145 | Electronic Transport Evidence for Topological Nodal-Line Semimetals of ZrGeSe Single Crystals. *ACS Applied Electronic Materials*, **2019**, 1, 869-876 | 4 | 13 |
| 144 | Phase transition and phase separation in multiferroic orthorhombic Dy(1-x)Ho(x)MnO3 (0≤x≤1). *Scientific Reports*, **2014**, 4, 6506 | 4.9 | 13 |
| 143 | Preparation of CHNHPbI thin films with tens of micrometer scale at high temperature. *Scientific Reports*, **2017**, 7, 8458 | 4.9 | 13 |
| 142 | Grain size effect on GdFeO3-type lattice distortion and ferroelectric behavior in DyMnO3. *Physica B: Condensed Matter*, **2012**, 407, 3736-3739 | 2.8 | 13 |
| 141 | Strain-engineered A-type antiferromagnetic order in YTiO3: A first-principles calculation. *Journal of Applied Physics*, **2013**, 113, 17E108 | 2.5 | 13 |
| 140 | Magnetic and orbital order in (RMnO3)n/(AMnO3)2n superlattices studied via a double-exchange model with strain. *Physical Review B*, **2012**, 86, | 3.3 | 13 |
| 139 | Ferroelectric ferrimagnetic LiFe2F6: Charge-ordering-mediated magnetoelectricity. *Physical Review Materials*, **2017**, 1, | 3.2 | 13 |
| 138 | Magnetic states of iron-based two-leg ladder tellurides. *Physical Review B*, **2019**, 100, | 3.3 | 13 |
| 137 | Structural transitions in hybrid improper ferroelectric Ca3Ti2O7 tuned by site-selective isovalent substitutions: A first-principles study. *Physical Review B*, **2018**, 97, | 3.3 | 13 |
| 136 | Proton transfer ferroelectricity/multiferroicity in rutile oxyhydroxides. *Nanoscale*, **2018**, 10, 9509-9515 | 7.7 | 12 |
| 135 | Testing the Monte Carlo–mean field approximation in the one-band Hubbard model. *Physical Review B*, **2014**, 90, | 3.3 | 12 |
| 134 | Ferrielectricity in DyMn2O5: A golden touchstone for multiferroicity of RMn2O5 family. *Journal of Advanced Dielectrics*, **2015**, 05, 1530003 | 1.3 | 12 |
| 133 | Magnetic orders of LaTiO3 under epitaxial strain: A first-principles study. *Journal of Applied Physics*, **2014**, 115, 17E108 | 2.5 | 12 |
| 132 | Translating XPS Measurement Procedure for Band Alignment into Reliable Ab Initio Calculation Method. *Journal of Physical Chemistry C*, **2017**, 121, 7139-7143 | 3.8 | 11 |
| 131 | Anisotropic resistance switching in hexagonal manganites. *Physical Review B*, **2019**, 99, | 3.3 | 11 |

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| 130 | Experimental observation of magnetoelectricity in spin ice Dy2Ti2O7. *New Journal of Physics*, **2015**, 17, 123018 | 2.9 | 11 |
| 129 | Double-exchange model study of multiferroic RMnO3 perovskites. *European Physical Journal B*, **2009**, 71, 339-344 | 1.2 | 11 |
| 128 | Exchange striction driven magnetodielectric effect and potential photovoltaic effect in polar CaOFeS. *Physical Review Materials*, **2017**, 1, | 3.2 | 11 |
| 127 | Two-Step Antiferromagnetic Transitions and Ferroelectricity in Spin-1 Triangular-Lattice Antiferromagnetic Sr3NiTa2O9. *Inorganic Chemistry*, **2016**, 55, 2709-16 | 5.1 | 11 |
| 126 | BaMF4 (M = Mn, Co, Ni): New electrode materials for hybrid supercapacitor with layered polar structure. *Journal of Power Sources*, **2017**, 359, 585-591 | 8.9 | 10 |
| 125 | Iron telluride ladder compounds: Predicting the structural and magnetic properties of BaFe2Te3. *Physical Review B*, **2020**, 101, | 3.3 | 10 |
| 124 | Magnetic orders and electronic structure in LaMnO3/SrTiO3 superlattices. *Journal of Applied Physics*, **2013**, 113, 17D902 | 2.5 | 10 |
| 123 | Helical and skyrmion lattice phases in three-dimensional chiral magnets: Effect of anisotropic interactions. *Scientific Reports*, **2017**, 7, 7392 | 4.9 | 10 |
| 122 | Deeply Repairing Surface States with Wet Chemistry Methods: Enhanced Performance in TiO2 Nanowire Arrays-Based Optoelectronic Device. *ChemistrySelect*, **2017**, 2, 10971-10978 | 1.8 | 10 |
| 121 | Thickness dependence of La0.7Sr0.3MnO3/PbZr0.2Ti0.8O3 magnetoelectric interfaces. *Applied Physics Letters*, **2015**, 107, 141603 | 3.4 | 10 |
| 120 | Room-temperature ferrimagnetic multiferroic BiFe0.5Co0.5O3 thin films with giant piezoelectric response. *Physical Review Materials*, **2018**, 2, | 3.2 | 10 |
| 119 | Ferroic orders in two-dimensional transition/rare-earth metal halides. *APL Materials*, **2020**, 8, 110704 | 5.7 | 10 |
| 118 | Unexpected Intermediate State Photoinduced in the Metal-Insulator Transition of Submicrometer Phase-Separated Manganites. *Physical Review Letters*, **2018**, 120, 267202 | 7.4 | 10 |
| 117 | Low-temperature crystal and magnetic structures of the magnetoelectric material Fe4Nb2O9. *Physical Review B*, **2019**, 100, | 3.3 | 9 |
| 116 | First principles study of the magnetic properties of LaOMnAs. *Journal of Applied Physics*, **2014**, 115, 17D723 | 2.5 | 9 |
| 115 | Flux state and anomalous quantum Hall effect in the square double-exchange model. *Physical Review B*, **2010**, 81, | 3.3 | 9 |
| 114 | Tailoring magnetic orders in (LaFeO3)n/(LaCrO3)n superlattices model. *Journal of Applied Physics*, **2011**, 110, 053916 | 2.5 | 9 |
| 113 | Fragile magnetic ground state and metal-insulator transitions in CaCrO3: The first-principles calculations. *Journal of Applied Physics*, **2011**, 110, 073701 | 2.5 | 9 |

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| 112 | Quasi-one-dimensional ferroelectricity and piezoelectricity in WOX4 halogens. *Physical Review Materials*, **2019**, 3, | 3.2 | 9 |
| 111 | Extreme magnetoresistance and SdH oscillation in compensated semimetals of NbSb2 single crystals. *Journal of Applied Physics*, **2018**, 123, 155103 | 2.5 | 8 |
| 110 | (LaTiO3)n/(LaVO3)n as a model system for unconventional charge transfer and polar metallicity. *Physical Review B*, **2017**, 95, | 3.3 | 8 |
| 109 | Magnetization oscillation in a nanomagnet driven by a self-controlled spin-polarized current: Nonlinear stability analysis. *Physical Review B*, **2007**, 76, | 3.3 | 8 |
| 108 | Robust manipulation of magnetism in LaO/BaTiO ( = Fe, Mn and Cr) superstructures by ferroelectric polarization. *IUCrJ*, **2019**, 6, 189-196 | 4.7 | 8 |
| 107 | Peierls transition driven ferroelasticity in the two-dimensional d hybrid magnets. *Physical Review B*, **2021**, 103, | 3.3 | 8 |
| 106 | Role of further-neighbor interactions in modulating the critical behavior of the Ising model with frustration. *Physical Review E*, **2016**, 93, 032114 | 2.4 | 7 |
| 105 | Topological triple-vortex lattice stabilized by mixed frustration in expanded honeycomb Kitaev-Heisenberg model. *Scientific Reports*, **2016**, 6, 26750 | 4.9 | 7 |
| 104 | LaSrVO4: A candidate for the spin-orbital liquid state. *Physical Review B*, **2014**, 89, | 3.3 | 7 |
| 103 | Magnetic properties and electronic structures of (YTiO3)2/(BaTiO3)n superlattices. *Journal of Applied Physics*, **2014**, 115, 17D710 | 2.5 | 7 |
| 102 | Dynamic hysteresis of magnetic aggregates with non-integer dimension. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 2429-2432 | 2.8 | 7 |
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# List of Publications

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