

# Sang-Wook Cheong

## List of Publications by Year in descending order

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times ranked

24358  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Multiferroics: a magnetic twist for ferroelectricity. <i>Nature Materials</i> , 2007, 6, 13-20.  | 27.5 | 4,054     |
| 2  | Low Temperature Magnetoresistance and the Magnetic Phase Diagram of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . <i>Physical Review Letters</i> , 1995, 75, 3336-3339.                       | 7.8  | 2,081     |
| 3  | Electric polarization reversal and memory in a multiferroic material induced by magnetic fields. <i>Nature</i> , 2004, 429, 392-395.   | 27.8 | 2,060     |
| 4  | Lattice Effects on the Magnetoresistance in Doped $\text{LaMnO}_3$ . <i>Physical Review Letters</i> , 1995, 75, 914-917.   | 7.8  | 1,898     |
| 5  | Spin-Polarized Intergrain Tunneling in $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ . <i>Physical Review Letters</i> , 1996, 77, 2041-2044.  | 7.8  | 1,725     |
| 6  | Switchable Ferroelectric Diode and Photovoltaic Effect in $\text{BiFeO}_3$ . <i>Science</i> , 2009, 324, 63-66.  | 12.6 | 1,685     |
| 7  | Percolative phase separation underlies colossal magnetoresistance in mixed-valent manganites. <i>Nature</i> , 1999, 399, 560-563.  | 27.8 | 1,662     |
| 8  | Charge, orbital, and magnetic ordering in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ s. <i>Physical Review B</i> , 1997, 55, 3015-3023.  | 3.2  | 841       |
| 9  | Multiferroics: Past, present, and future. <i>Physics Today</i> , 2010, 63, 38-43.  | 0.3  | 826       |
| 10 | Structural effects on the magnetic and transport properties of perovskite $\text{A}_{1-x}\text{A}'_x\text{MnO}_3$ ( $x=0.25, 0.30$ ). <i>Physical Review B</i> , 1997, 56, 8265-8276.      | 3.2  | 811       |
| 11 | Multiferroic materials and magnetoelectric physics: symmetry, entanglement, excitation, and topology. <i>Advances in Physics</i> , 2015, 64, 519-626.                                      | 14.4 | 661       |
| 12 | Simultaneous Structural, Magnetic, and Electronic Transitions in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ with $x=0.25$ and $0.50$ . <i>Physical Review Letters</i> , 1995, 75, 4488-4491. | 7.8  | 636       |
| 13 | Pairing of charge-ordered stripes in $(\text{La,Ca})\text{MnO}_3$ . <i>Nature</i> , 1998, 392, 473-476.  | 27.8 | 632       |
| 14 | Gate-tunable phase transitions in thin flakes of $1\text{T-TaS}_2$ . <i>Nature Nanotechnology</i> , 2015, 10, 270-276.   | 31.5 | 584       |
| 15 | Spin Waves and Electronic Interactions in $\text{La}_2\text{CuO}_4$ . <i>Physical Review Letters</i> , 2001, 86, 5377-5380.  | 7.8  | 541       |
| 16 | Incommensurate magnetic fluctuations in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . <i>Physical Review Letters</i> , 1991, 67, 1791-1794.   | 7.8  | 534       |
| 17 | Commensurate to Incommensurate Charge Ordering and Its Real-Space Images in $\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ . <i>Physical Review Letters</i> , 1996, 76, 4042-4045.           | 7.8  | 524       |
| 18 | Spin Waves and Revised Crystal Structure of Honeycomb Iridate $\text{Na}_2\text{IrO}_4$ . <i>Physical Review Letters</i> , 2012, 108, 127204.  | 7.8  | 502       |

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|----|---|------|-----------|
| 19 | Electronic states in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ probed by soft-x-ray absorption. <i>Physical Review Letters</i> , 1991, 66, 104-107.  | 7.8  | 463       |
| 20 | Emergent excitations in a geometrically frustrated magnet. <i>Nature</i> , 2002, 418, 856-858.  | 27.8 | 460       |
| 21 | Structural phenomena associated with the spin-state transition in $\text{LaCoO}_3$ . <i>Physical Review B</i> , 2002, 66, .   | 3.2  | 457       |
| 22 | Charge modulations in $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+y}$ : Ordering of polarons. <i>Physical Review Letters</i> , 1993, 71, 2461-2464.  | 7.8  | 449       |
| 23 | Thermodynamic and Electron Diffraction Signatures of Charge and Spin Ordering in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ . <i>Physical Review Letters</i> , 1996, 76, 3188-3191.                           | 7.8  | 434       |
| 24 | Insulating interlocked ferroelectric and structural antiphase domain walls in multiferroic $\text{YMnO}_3$ . <i>Nature Materials</i> , 2010, 9, 253-258.  | 27.5 | 373       |
| 25 | Mechanism of the Switchable Photovoltaic Effect in Ferroelectric $\text{BiFeO}_3$ . <i>Advanced Materials</i> , 2011, 23, 3403-3407.  | 21.0 | 372       |
| 26 | Experimental demonstration of hybrid improper ferroelectricity and the presence of abundant charged walls in $(\text{Ca,Sr})_3\text{Ti}_2\text{O}_7$ crystals. <i>Nature Materials</i> , 2015, 14, 407-413. | 27.5 | 357       |
| 27 | Giant magneto-elastic coupling in multiferroic hexagonal manganites. <i>Nature</i> , 2008, 451, 805-808.  | 27.8 | 356       |
| 28 | Local Spin Resonance and Spin-Peierls-like Phase Transition in a Geometrically Frustrated Antiferromagnet. <i>Physical Review Letters</i> , 2000, 84, 3718-3721.  | 7.8  | 352       |
| 29 | Colossal Magnetodielectric Effects in $\text{DyMn}_2\text{O}_5$ . <i>Physical Review Letters</i> , 2004, 93, 107207.  | 7.8  | 336       |
| 30 | Influence of oxygen content on the structural, magnetotransport, and magnetic properties of $\text{LaMnO}_3$ . <i>Physical Review B</i> , 1997, 56, 8902-8911.  | 3.2  | 328       |
| 31 | Formation of isomorphous $\text{Ir}^{3+}$ and $\text{Ir}^{4+}$ octamers and spin dimerization in the spinel $\text{Cu}_2\text{S}_4$ . <i>Nature</i> , 2002, 416, 155-158.                                   | 27.8 | 315       |
| 32 | Large Kerr effect in bulk Se-based chalcogenide glasses. <i>Optics Letters</i> , 2000, 25, 254.   | 3.3  | 311       |
| 33 | Structural Anomalies and Multiferroic Behavior in Magnetically Frustrated $\text{TbMn}_2\text{O}_5$ . <i>Physical Review Letters</i> , 2004, 93, 177402.  | 7.8  | 309       |
| 34 | Electronic Aspects of the Ferromagnetic Transition in Manganese Perovskites. <i>Physical Review Letters</i> , 1996, 76, 4215-4218.  | 7.8  | 296       |
| 35 | The role of strain in magnetic anisotropy of manganite thin films. <i>Applied Physics Letters</i> , 1997, 71, 140-142.  | 3.3  | 287       |
| 36 | Magnetic dynamics of $\text{La}_2\text{CuO}_4$ and $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ . <i>Physical Review Letters</i> , 1989, 62, 2052-2055.   | 7.8  | 275       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | Thickness-dependent bulk properties and weak antilocalization effect in topological insulator $Bi_2Se_3$ . Physical Review B, 2011, 84, .  | 3.2  | 270       |
| 38 | Charge localization by static and dynamic distortions of the MnO <sub>6</sub> octahedra in perovskite manganites. Physical Review B, 1996, 54, 8992-8995.  | 3.2  | 259       |
| 39 | Spin structure and magnetic frustration in multiferroic RMn <sub>2</sub> O <sub>5</sub> (R=Tb, Ho, Dy). Physical Review B, 2005, 71, .   | 3.2  | 252       |
| 40 | Structural changes, clustering, and photoinduced phase segregation in Pr <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . Physical Review B, 1998, 57, 3305-3314.                                   | 3.2  | 239       |
| 41 | Atomic-scale images of charge ordering in a mixed-valence manganite. Nature, 2002, 416, 518-521.   | 27.8 | 231       |
| 42 | Large, dispersive photoelectron Fermi edge and the electronic structure of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.9</sub> single crystals measured at 20 K. Physical Review B, 1989, 40, 2268-2277. | 3.2  | 222       |
| 43 | Evidence for collective spin dynamics above the ordering temperature in La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . Physical Review B, 1996, 53, 6521-6525.                                   | 3.2  | 222       |
| 44 | Enhanced Intergrain Tunneling Magnetoresistance in Half-Metallic CrO <sub>2</sub> Films. Science, 1997, 278, 1607-1609.  | 12.6 | 218       |
| 45 | Charge-ordered states in (La,Sr) <sub>2</sub> NiO <sub>4</sub> for hole concentrations $n_h = 1/3$ and $1/2$ . Physical Review B, 1994, 49, 7088-7091.   | 3.2  | 212       |
| 46 | Impact of Charge Ordering on Magnetic Correlations in Perovskite (Bi,Ca)MnO <sub>3</sub> . Physical Review Letters, 1997, 78, 543-546.   | 7.8  | 212       |
| 47 | Large room-temperature intergrain magnetoresistance in double perovskite SrFe <sub>1-x</sub> (Mo <sub>2</sub> or Re <sub>2</sub> )xO <sub>3</sub> . Applied Physics Letters, 1999, 74, 1737-1739.      | 3.3  | 210       |
| 48 | Wigner-crystal and bi-stripe models for the magnetic and crystallographic superstructures of La <sub>0.333</sub> Ca <sub>0.667</sub> MnO <sub>3</sub> . Physical Review B, 1999, 59, 14440-14450.      | 3.2  | 210       |
| 49 | Magnetic imaging of a supercooling glass transition in a weakly disordered ferromagnet. Nature Materials, 2006, 5, 881-886.  | 27.5 | 205       |
| 50 | High-energy spin waves in La <sub>2</sub> CuO <sub>4</sub> . Physical Review Letters, 1991, 67, 3622-3625.   | 7.8  | 192       |
| 51 | Systematic Mn d-configuration change in the La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> system: A Mn K-edge XAS study. Physical Review B, 1997, 55, 8726-8732.                                  | 3.2  | 192       |
| 52 | Crossover from Large to Small Polarons across the Metal-Insulator Transition in Manganites. Physical Review Letters, 1998, 81, 878-881.  | 7.8  | 190       |
| 53 | Intergrain Magnetoresistance via Second-Order Tunneling in Perovskite Manganites. Physical Review Letters, 1999, 82, 4508-4511.  | 7.8  | 190       |
| 54 | Phonon Raman scattering in R <sub>1-x</sub> A <sub>x</sub> MnO <sub>3</sub> (R=La, Pr; A=Ca, Sr). Physical Review B, 1998, 58, 11435-11440.  | 3.2  | 185       |

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|----|---|-----|-----------|
| 55 | Spin-Peierls State versus Néel State in Doped CuGeO <sub>3</sub> . Physical Review Letters, 1995, 74, 1450-1453.  | 7.8 | 183       |
| 56 | Martensitic accommodation strain and the metal-insulator transition in manganites. Physical Review B, 2001, 64, .   | 3.2 | 179       |
| 57 | Thermal and Electronic Transport Properties and Two-Phase Mixtures in La <sub>5/8</sub> xPrxCa <sub>3/8</sub> MnO <sub>3</sub> . Physical Review Letters, 2000, 84, 2961-2964.                | 7.8 | 178       |
| 58 | Superconductivity of rare earth-barium-copper oxides. Solid State Communications, 1987, 62, 743-744.  | 1.9 | 177       |
| 59 | Patterning-Induced Ferromagnetism of Fe <sub>3</sub> GeTe <sub>2</sub> van der Waals Materials beyond Room Temperature. Nano Letters, 2018, 18, 5974-5980.                                    | 9.1 | 177       |
| 60 | Growth of the optical conductivity in the Cu-O planes. Physical Review B, 1990, 41, 11605-11608.  | 3.2 | 175       |
| 61 | Raman and optical spectroscopic studies of small-to-large polaron crossover in the perovskite manganese oxides. Physical Review B, 1998, 58, 2795-2801.                                       | 3.2 | 173       |
| 62 | Spin Waves throughout the Brillouin Zone of a Double-Exchange Ferromagnet. Physical Review Letters, 1996, 77, 711-714.  | 7.8 | 172       |
| 63 | Structural Aspects of the Crystallographic-Magnetic Transition in LaVO <sub>3</sub> around 140 K. Journal of Solid State Chemistry, 1993, 106, 253-270.                                       | 2.9 | 171       |
| 64 | Charge-ordered stripes in La <sub>1-x</sub> CaxMnO <sub>3</sub> with x>0.5 (invited). Journal of Applied Physics, 1997, 81, 4326-4330.  | 2.5 | 170       |
| 65 | High carrier mobility in transparent Ba <sub>1-x</sub> LaxSnO <sub>3</sub> crystals with a wide band gap. Applied Physics Letters, 2012, 100, .   | 3.3 | 170       |
| 66 | Probing Spin Correlations with Phonons in the Strongly Frustrated Magnet ZnCr <sub>2</sub> O <sub>4</sub> . Physical Review Letters, 2005, 94, 137202.  | 7.8 | 168       |
| 67 | Charge-Orbital Density Wave and Superconductivity in the Strong Spin-Orbit Coupled $\text{IrTe}_2$ . Physical Review Letters, 2012, 108, 116402.  | 7.8 | 168       |
| 68 | Evolution of the Low-Frequency Spin Dynamics in Ferromagnetic Manganites. Physical Review Letters, 1998, 80, 4012-4015.   | 7.8 | 165       |
| 69 | Direct Observation of the Proliferation of Ferroelectric Loop Domains and Vortex-Antivortex Pairs. Physical Review Letters, 2012, 108, 167603.  | 7.8 | 165       |
| 70 | Ferromagnetic Ordering and Unusual Magnetic Ion Dynamics in La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> . Physical Review Letters, 1996, 77, 1869-1872.                            | 7.8 | 163       |
| 71 | Extraordinary pressure dependence of the metal-to-insulator transition in the charge-transfer compounds NdNiO <sub>3</sub> and PrNiO <sub>3</sub> . Physical Review B, 1993, 47, 12357-12360. | 3.2 | 158       |
| 72 | Transport mechanisms in doped LaMnO <sub>3</sub> : Evidence for polaron formation. Physical Review B, 1997, 56, 5104-5107.  | 3.2 | 157       |

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|----|--|------|-----------|
| 73 | Comparison of the High-Frequency Magnetic Fluctuations in Insulating and Superconducting $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Physical Review Letters, 1996, 76, 1344-1347.  | 7.8  | 152       |
| 74 | Magnetic Order and Spin Dynamics in Ferroelectric $\text{HoMnO}_3$ . Physical Review Letters, 2005, 94, 087601.  | 7.8  | 151       |
| 75 | Complex magnetic properties of the rare-earth copper oxides, $\text{R}_2\text{CuO}_4$ , observed via measurements of the dc and ac magnetization, EPR, microwave magnetoabsorption, and specific heat. Physical Review B, 1990, 41, 1934-1948. | 3.2  | 149       |
| 76 | Melting of Quasi-Two-Dimensional Charge Stripes in $\text{La}_{5/3}\text{Sr}_{1/3}\text{NiO}_4$ . Physical Review Letters, 1997, 79, 2514-2517.  | 7.8  | 149       |
| 77 | Optical properties and magnetochromism in multiferroic $\text{BiFeO}_3$ . Physical Review B, 2009, 79, .   | 3.2  | 149       |
| 78 | Large dielectric constants and massive carriers in $\text{La}_2\text{CuO}_4$ . Physical Review Letters, 1989, 62, 2048-2051.   | 7.8  | 148       |
| 79 | Thermal Conductivity of Geometrically Frustrated, Ferroelectric $\text{YMnO}_3$ : Extraordinary Spin-Phonon Interactions. Physical Review Letters, 2004, 93, 177202.   | 7.8  | 148       |
| 80 | Magnetic properties of $\text{Gd}_2\text{CuO}_4$ crystals. Physical Review B, 1989, 39, 6660-6666.   | 3.2  | 144       |
| 81 | Light scattering from quantum spin fluctuations in $\text{R}_2\text{CuO}_4$ (R=La, Nd, Sm). Physical Review B, 1990, 41, 225-230.  | 3.2  | 144       |
| 82 | Mesoscopic and microscopic phase segregation in manganese perovskites. Physical Review B, 2001, 63, .  | 3.2  | 143       |
| 83 | Frustrated Magnetism and Cooperative Phase Transitions in Spinels. Journal of the Physical Society of Japan, 2010, 79, 011004.   | 1.6  | 141       |
| 84 | Magnetic ordering of Nd in $(\text{Nd,Ce})_2\text{CuO}_4$ . Physical Review B, 1990, 41, 2569-2572.  | 3.2  | 139       |
| 85 | Topological defects as relics of emergent continuous symmetry and Higgs condensation disorder in ferroelectrics. Nature Physics, 2014, 10, 970-977.  | 16.7 | 136       |
| 86 | Magnetic and Charge Dynamics in a Doped One-Dimensional Transition Metal Oxide. Physical Review Letters, 1994, 73, 1857-1860.  | 7.8  | 134       |
| 87 | Optical studies of gap, exchange, and hopping energies in the insulating cuprates. Physical Review B, 1990, 42, 10785-10788.   | 3.2  | 133       |
| 88 | Structural Phase Diagram of Perovskite $\text{A}_{0.7}\text{A}'_{0.3}\text{MnO}_3$ (A= La, Pr; A' = Ca, Sr, Ba): A New $\text{A}2\text{B}2\text{C}$ Allotype. Journal of Solid State Chemistry, 1996, 122, 444-447.                            | 2.9  | 129       |
| 89 | Superconductivity above 90 K in magnetic rare earth-barium-copper oxides. Journal of Magnetism and Magnetic Materials, 1987, 67, L139-L142.  | 2.3  | 124       |
| 90 | Local Weak Ferromagnetism in Single-Crystalline Ferroelectric $\text{BiFeO}_3$ . Physical Review Letters, 2011, 107, 207206.   | 7.8  | 124       |

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|-----|--|------|-----------|
| 91  | Electric field control of the magnetic state in BiFeO <sub>3</sub> single crystals. Applied Physics Letters, 2008, 92, .   | 3.3  | 121       |
| 92  | Resonant Inelastic X-Ray Scattering from Valence Excitations in Insulating Copper Oxides. Physical Review Letters, 1999, 83, 860-863.  | 7.8  | 120       |
| 93  | Magnon damping by magnon-phonon coupling in manganese perovskites. Physical Review B, 2000, 61, 9553-9557.   | 3.2  | 120       |
| 94  | Negative Thermal Expansion in Hybrid Improper Ferroelectric Ruddlesden-Popper Perovskites by Symmetry Trapping. Physical Review Letters, 2015, 114, 035701.  | 7.8  | 119       |
| 95  | Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. Advanced Materials, 2020, 32, e2004533.   | 21.0 | 119       |
| 96  | Softening and Broadening of the Zone Boundary Magnons in Pr <sub>0.63</sub> Sr <sub>0.37</sub> MnO <sub>3</sub> . Physical Review Letters, 1998, 80, 1316-1319.  | 7.8  | 118       |
| 97  | Ferroelectricity Driven by Yd <sup>0</sup> -ness with Rehybridization in YMnO <sub>3</sub> . Physical Review Letters, 2007, 98, 217601.  | 7.8  | 118       |
| 98  | Magnetic phase transitions and structural distortion in Nd <sub>2</sub> CuO <sub>4</sub> . Physica C: Superconductivity and Its Applications, 1989, 160, 124-128.  | 1.2  | 117       |
| 99  | Specific heat and anisotropic magnetic susceptibility of Pr <sub>2</sub> CuO <sub>4</sub> , Nd <sub>2</sub> CuO <sub>4</sub> and Sm <sub>2</sub> CuO <sub>4</sub> crystals. Physica C: Superconductivity and Its Applications, 1989, 158, 102-108. | 1.2  | 117       |
| 100 | Temperature dependence of the ESR linewidth in the paramagnetic phase (T > T <sub>C</sub> ) of R <sub>1</sub> <sup>x</sup> B <sub>x</sub> MnO <sub>3</sub> + $\frac{1}{2}$ (R=La,Pr; B=Ca,Sr). Physical Review B, 1997, 55, 3083-3086.             | 3.2  | 117       |
| 101 | Anomalous Magnetotransport Properties of R <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> near the Magnetic Phase Boundary. Physical Review Letters, 2000, 84, 1998-2001.   | 7.8  | 117       |
| 102 | Photoemission from single crystals of EuBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> cleaved below 20 K: temperature-dependent oxygen loss. Physical Review B, 1988, 38, 11966-11969.  | 3.2  | 115       |
| 103 | Correlations between the magnetic and structural properties of Ca-doped BiMnO <sub>3</sub> . Physical Review B, 2001, 63, .  | 3.2  | 114       |
| 104 | Kinetically stabilized ferroelectricity in bulk single-crystalline HfO <sub>2</sub> :Y. Nature Materials, 2021, 20, 826-832.   | 27.5 | 114       |
| 105 | Properties of La <sub>2</sub> CuO <sub>4</sub> and related compounds. Physica C: Superconductivity and Its Applications, 1989, 158, 109-126.   | 1.2  | 113       |
| 106 | Direct visualization of magnetoelectric domains. Nature Materials, 2014, 13, 163-167.  | 27.5 | 112       |
| 107 | Normal-state properties of ABa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> compounds (A=Y and Gd): Electron-electron correlations. Physical Review B, 1987, 36, 3913-3916.   | 3.2  | 107       |
| 108 | Collective Magnetism at Multiferroic Vortex Domain Walls. Nano Letters, 2012, 12, 6055-6059.   | 9.1  | 106       |

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|-----|--|------|-----------|
| 109 | Non-hysteretic colossal magnetoelectricity in a collinear antiferromagnet. Nature Communications, 2014, 5, 3201.   | 12.8 | 106       |
| 110 | Observation of Two Time Scales in the Ferromagnetic Manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ , $x \approx 0.3$ . Physical Review Letters, 2000, 85, 3285-3288.   | 7.8  | 105       |
| 111 | Giant Tunability of Ferroelectric Polarization in $\text{GdMn}_2\text{O}_5$ . Physical Review Letters, 2013, 110, 137203.  | 7.8  | 105       |
| 112 | Anomalous phonon shifts in the paramagnetic phase of multiferroic $\text{RMn}_2\text{O}_5$ (R=Bi, Eu, Dy): Possible manifestations of unconventional magnetic correlations. Physical Review B, 2006, 73, .             | 3.2  | 104       |
| 113 | Broken symmetries, non-reciprocity, and multiferroicity. Npj Quantum Materials, 2018, 3, .   | 5.2  | 104       |
| 114 | Magnetic anisotropy of doped manganite thin films and crystals. Journal of Applied Physics, 1998, 83, 7064-7066.   | 2.5  | 103       |
| 115 | Giant $1/f$ noise in perovskite manganites: Evidence of the percolation threshold. Physical Review B, 2000, 61, R3784-R3787.   | 3.2  | 103       |
| 116 | Electronic phase separation and charge ordering in $(\text{Sr},\text{La})_2\text{MnO}_4$ : Indication of triplet bipolarons. Solid State Communications, 1996, 98, 55-59.  | 1.9  | 101       |
| 117 | Self-organization, condensation, and annihilation of topological vortices and antivortices in a multiferroic. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21366-21370. | 7.1  | 100       |
| 118 | Formation of Pancakelike Ising Domains and Giant Magnetic Coercivity in Ferrimagnetic $\text{LuFe}_2\text{O}_4$ . Physical Review Letters, 2008, 101, 137203.  | 7.8  | 98        |
| 119 | NMR study of local structure in metallic $\text{La}_2\text{CuO}_4$ . Physical Review Letters, 1993, 71, 440-443.   | 7.8  | 96        |
| 120 | Optical excitations of a few charges in cuprates. Physical Review B, 1992, 45, 2474-2479.  | 3.2  | 94        |
| 121 | Double-exchange ferromagnetism in $\text{La}(\text{Mn}_{1-x}\text{Co}_x)\text{O}_3$ . Physical Review B, 1997, 55, 11072-11075.  | 3.2  | 94        |
| 122 | Relaxation between charge order and ferromagnetism in manganites: Indication of structural phase separation. Europhysics Letters, 2000, 52, 674-680.   | 2.0  | 93        |
| 123 | Elastic constants and specific-heat measurements on single crystals of $\text{La}_2\text{CuO}_4$ . Physical Review B, 1990, 41, 2098-2102.   | 3.2  | 92        |
| 124 | Unveiling hidden ferrimagnetism and giant magnetoelectricity in polar magnet $\text{Fe}_2\text{Mo}_3\text{O}_8$ . Scientific Reports, 2015, 5, 12268.  | 3.3  | 92        |
| 125 | Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 $\text{Ce}_2\text{Zr}_2\text{O}_7$ pyrochlore. Nature Physics, 2019, 15, 1052-1057.   | 16.7 | 92        |
| 126 | NMR, neutron scattering, and the one-band model of $\text{La}_2\text{xSr}_x\text{CuO}_4$ . Physical Review Letters, 1994, 72, 3610-3613.   | 7.8  | 91        |



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|-----|---|------|-----------|
| 127 | Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421.   | 21.0 | 91        |
| 128 | Temperature-dependent properties of the magnetic order in single-crystal $\text{BiFeO}_3$ . <i>Physical Review B</i> , 2011, 83, .  | 3.2  | 90        |
| 129 | Low-field magnetoresistance in the pyrochlore $\text{Tl}_2\text{Mn}_2\text{O}_7$ . <i>Nature</i> , 1997, 389, 942-944.  | 27.8 | 89        |
| 130 | Structural anomalies at the magnetic and ferroelectric transitions in $\text{RMn}_2\text{O}_5$ (R=Tb,Dy,Ho). <i>Physical Review B</i> , 2006, 73, .   | 3.2  | 89        |
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