Gang Cao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2288718/publications.pdf

Version: 2024-02-01

160 papers	9,047 citations	50276 46 h-index	42399 92 g-index
162 all docs	162 docs citations	162 times ranked	4859 citing authors

#	Article	IF	Citations
1	State Induced by Relativistic Spin-Orbit Coupling in	7.8	1,332
2	Thermal, magnetic, and transport properties of single-crystal	3.2	530
3	Oxides	7.8	425
4	Weak ferromagnetism, metal-to-nonmetal transition, and negative differential resistivity in single-crystalSr2IrO4. Physical Review B, 1998, 57, R11039-R11042.	3.2	327
5	diffraction investigation of single-crystal Na	3.2	318
6	Pressure Tuning of the Spin-Orbit Coupled Ground State in	7.8	192
7	Observation of a Metallic Antiferromagnetic Phase and Metal to Nonmetal Transition inCa3Ru2O7. Physical Review Letters, 1997, 78, 1751-1754.	7.8	190
8	Lattice-driven magnetoresistivity and metal-insulator transition in single-layered iridates. Physical Review B, 2011, 84, .	3.2	171
9	Magnetic and crystal structures of A neutron diffraction study. Physical Review B, 2013, 87, .	3.2	170
10	Spin switching and magnetization reversal in single-crystal NdFeO. Physical Review B, 2013, 87, .	3.2	166
11	Anomalous magnetic and transport behavior in the magnetic insulatorSr3Ir2O7. Physical Review B, 2002, 66, .	3.2	157
12	Evidence of an odd-parity hidden order in a spinâ€“orbit coupled correlated iridate. Nature Physics, 2016, 12, 32-36.	16.7	151
13		3.2	149
14	Novel Magnetism of	7.8	141
15	Physical Review Letters, 2014, 112, 056402. Destruction of the Mott insulating ground state ofCa2RuO4by a structural transition. Physical Review B, 1999, 60, R8422-R8425.	3.2	140
16	The challenge of spinâ€“orbit-tuned ground states in iridates: a key issues review. Reports on Progress in Physics, 2018, 81, 042502.	20.1	134
17	Magnetic and transport properties of single-crystalCa2RuO4:Relationship to superconductingSr2RuO4. Physical Review B, 1997, 56, R2916-R2919.	3.2	133
18	Electron-doped		

#	Article	IF	Citations
19	Magnetoelectric effect in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mrow><mml:mi>eff</mml:mi></mml:mrow></mml:msub><mml:n scriptlevel="1"><mml:mfrac bevelled="false"><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow></mml:math>Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sr</mml:mtext></mml:mrow><mml:	3.2	108
20	Charge density wave formation accompanying ferromagnetic ordering in quasi-one-dimensional BaIrO3. Solid State Communications, 2000, 113, 657-662.	1.9	105
21	Spin-orbit tuned metal-insulator transitions in single-crystal Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â”</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Rh<mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	102
22	Hallmarks of the Mott-metal crossover in the hole-doped pseudospin-1/2 Mott insulator Sr2IrO4. Nature Communications, 2016, 7, 11367.	12.8	99
23	Observation of a metal-to-insulator transition with both Mott-Hubbard and Slater characteristics in Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>IrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>from time-resolved photocarrier dynamics. Physical	3.2	98
24	Layered Ruthenium Oxides: From Band Metal to Mott Insulator. Physical Review Letters, 1998, 81, 2747-2750.	7.8	93
25	Testing the Validity of the Strong Spin-Orbit-Coupling Limit for Octahedrally Coordinated Iridate Compounds in a Model System<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>CuIrO</mml:mi><mml:mi> Physical Review Letters, 2012, 109, 157401.	7.8	92
26	Electronic structures of layered perovskiteSr2MO4(M=Ru, Rh, and Ir). Physical Review B, 2006, 74, .	3.2	91
27	Structure and magnetism of single crystalSr4Ru3O10:â€ƒA ferromagnetic triple-layer ruthenate. Physical Review B, 2002, 65, .	3.2	90
28	Non-Fermi-liquid behavior in nearly ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>SrIrO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>si crystals. Physical Review B, 2007, 76, .	3.2	89
29	Tuning electronic structure via epitaxial strain in Sr2IrO4 thin films. Applied Physics Letters, 2013, 102, .	3.3	87
30	Dilute magnetism and spin-orbital percolation effects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ir</mml:mi><mml:mrow><mml:mn>1 xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Rh</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:m xmlns:mml=". Physical Review B, 2014, 89, .	3.2	78
31	Compressive strain-induced metalâ€“insulator transition in orthorhombic SrIrO₃ thin films. Journal of Materials Research, 2014, 29, 2491-2496.	2.6	77
32	Structural Distortion-Induced Magnetoelastic Locking in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> through Nonlinear Optical Harmonic Generation. Physical Review Letters, 2015, 114, 096404.	7.8	74
33	Dimensionality-controlled Mott transition and correlation effects in single-layer and bilayer perovskite iridates. Physical Review B, 2013, 87, .	3.2	71
34	Raman-scattering study of the charge and spin dynamics of the layered ruthenium oxideCa3Ru2O7. Physical Review B, 1999, 60, R6980-R6983.	3.2	66
35	Pressure-Tuned Collapse of the Mott-Like State inCan+1RunO3n+1(n=1,2): Raman Spectroscopic Studies. Physical Review Letters, 2002, 89, 226401.	7.8	64
36	Competing ground states in triple-layeredSr4Ru3O10:Verging on itinerant ferromagnetism with critical fluctuations. Physical Review B, 2003, 68, .	3.2	62

#	Article	IF	Citations
37	Tuning Magnetic Coupling in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow> Films with Epitaxial Strain. Physical Review Letters, 2014, 112, 147201.	7.8	62
38	Negative Volume Thermal Expansion Via Orbital and Magnetic Orders in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ru</mml:mi><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo		

#	ARTICLE	IF	CITATIONS
55	Mixing betweenJeff=12and32orbitals in Na2IrO3: A spectroscopic and density functional calculation study. Physical Review B, 2013, 88, .	3.2	43
56	Structure symmetry determination and magnetic evolution inSr2Ir1â^'xRhxO4. Physical Review B, 2015, 92, .	3.2	42
57	High-temperature weak ferromagnetism on the verge of a metallic state: Impact of dilute Sr doping onBaIrO3. Physical Review B, 2004, 69, .	3.2	41
58	Field-Induced Orbital and Magnetic Phases inCa3Ru2O7. Physical Review Letters, 2004, 93, 167205.	7.8	41
59	Colossal Magnetoresistance by Avoiding a Ferromagnetic State in the Mott SystemCa3Ru2O7. Physical Review Letters, 2005, 95, 017203.	7.8	41
60	Anisotropic Magnetoresistance in Antiferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>IrO4. Physical Review X, 2014, 4, .	8.9	40
61	Quantum oscillations, colossal magnetoresistance, and the magnetoelastic interaction in bilayeredCa3Ru2O7. Physical Review B, 2003, 67, .	3.2	39
62	Decoupling of the antiferromagnetic and insulating states in Tb-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ir</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	3.2	38
63	Frontiers of 4d- and 5d-Transition Metal Oxides. , 2013, , .		38
64	Isotropic and anisotropic regimes of the field-dependent spin dynamics in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO4: Raman scattering studies. Physical Review B, 2016, 93, .	3.2	36
65	Pressure-Induced Confined Metal from the Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>.	7.8	36
66	ac susceptibility studies of the weak itinerant ferromagnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi mathvariant="normal">Ru</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>under high pressure to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	3.2	35
67	Phonon-assisted optical excitation in the 34-meV bandgap Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Sr</mml:mn></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Ir</mml:mn></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>O</mml:mn></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	34
68	Coexistence of dimerization and long-range magnetic order in the frustrated spin-chain systemLiCu2O2:Inelastic light scattering study. Physical Review B, 2004, 69, .	3.2	31
69	Pressure-induced <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml:msub></mml:mrow></mml:math> to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math>-wave superconductor in single-crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" mathvariant="normal">Sr	3.2	31
70	Pressure-induced insulating state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
73	Electrical Control of Structural and Physical Properties via Strong Spin-Orbit Interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Physical Review Letters, 2018, 120, 017201.	7.8	30
74	Field-tuned collapse of an orbitally ordered and spin-polarized state:â€ƒColossal magnetoresistance in the bilayered ruthenateCa3Ru2O7. Physical Review B, 2004, 69, .	3.2	29
75	Colossal magnetoresistance via avoiding fully polarized magnetization in the ferrimagnetic insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mn>3</mml:mn></ Physical Review B, 2021, 103, .	3.2	29
76	Coexisting charge and magnetic orders in the dimer-chain iridateBa5AlIr2O11. Physical Review B, 2015, 91, .	3.2	28
77	Magnetic anisotropy of the alkali iridate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></ at high magnetic fields: Evidence for strong ferromagnetic Kitaev correlations. Physical Review B, 2019, 99, .	3.2	28
78	Giant vertical magnetization shift induced by spin canting in a Co/Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ru<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.98</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	27
79	Orbitally driven behaviour: Mott transition, quantum oscillations and colossal magnetoresistance in bilayered Ca3Ru2O7. New Journal of Physics, 2004, 6, 159-159.	2.9	26
80	A low temperature nonlinear optical rotational anisotropy spectrometer for the determination of crystallographic and electronic symmetries. Review of Scientific Instruments, 2014, 85, 083102.	1.3	26
81	Anisotropic softening of magnetic excitations in lightly electron-dopedSr2IrO4. Physical Review B, 2016, 93, .	3.2	26
82	Anisotropic electronic properties of a-axis-oriented Sr₂IrO₄ epitaxial thin-films. Applied Physics Letters, 2013, 103, 131910.	3.3	25
83	Orbital-dependent polaron formation in the relativistic Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">IrO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.2	24
84	Sr2Ir1â^'xRhxO4(x<0.5): An inhomogeneousjeff=12Hubbard system. Physical Review B, 2015, 92, .	3.2	23
85	Engineering 1D Quantum Stripes from Superlattices of 2D Layered Materials. Advanced Materials, 2017, 29, 1603798.	21.0	22
86	Persistent insulating state at megabar pressures in strongly spin-orbit coupled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ir</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	3.2	22
87	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:	3.2	21
88	Charge partitioning and anomalous hole doping in Rh-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2017, 95, .	3.2	21
89	Observation of topological surface states in the high-temperature superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MgB</mml:mi><mml:mn>2</mml:mn></ Physical Review B, 2019, 100, .	3.2	21
90	Suppression of magnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>5</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>11</mml:mn></mml:msub></mml:mrow></mml:math> : Interplay of Hund's coupling, molecular orbitals, and spin-orbit interaction. Physical Review B, 2017, 96, .	3.2	19

#	Article	IF	Citations
91	Possible Quantum Paramagnetism in Compressed Sr2IrO4. Physical Review Letters, 2020, 124, 067201.	7.8	19
92	Tuning Magnetic and Transport Properties in Quasi-2D (Mn1âˆ'xNix)2P2S6 Single Crystals. Electronic Materials, 2021, 2, 284-298.	1.9	19
93	Selective growth of epitaxial Sr2IrO4 by controlling plume dimensions in pulsed laser deposition. Applied Physics Letters, 2016, 109, .	3.3	18
94	Anomalous High-Energy Waterfall-Like Electronic Structure in 5 d Transition Metal Oxide Sr2IrO4 with a Strong Spin-Orbit Coupling. Scientific Reports, 2015, 5, 13036.	3.3	17
95	Nonequilibrium orbital transitions via applied electrical current in calcium ruthenates. Physical Review B, 2019, 100, .	3.2	17
96	Giant thermal magnetoconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrCl</mml:mi><mml:mn>3</mml:mn></mml:msub></mm and a general model for spin-phonon scattering. Physical Review Research, 2020, 2, .	3.6	17
97	Tunneling into the Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Sr</mml:mtext><mml:mn>2</mml:mn></mml:msub> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>IrO</mml:mtext><mml:mn>4</mml:mn></mml:msub> Physical Review B, 2014, 89, .	3.2	16
98	Electrically tunable transport in the antiferromagnetic Mott insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:m Physical Review B, 2015, 92, .	3.2	16
99	Observation of metallic surface states in the strongly correlated Kitaev-Heisenberg candidate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Na</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Physical Review B, 2016, 93, .	3.2	16
100	Optical signatures of spin-orbit exciton in bandwidth-controlled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Ir</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> epitaxial films via high-concentration Ca and Ba doping. Physical Review B, 2017, 95, .	3.2	16
101	Bond Directional Anapole Order in a Spin-Orbit Coupled Mott Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml		

#	Article	IF	Citations
109	Negative differential resistivity in Ca3Ru2O7: Unusual transport and magnetic coupling in a near-metallic system. Solid State Communications, 1998, 107, 263-266.	1.9	12
110	Borderline magnetism inSr4Ru3O10: Impact of La and Ca doping on itinerant ferromagnetism and metamagnetism. Physical Review B, 2006, 73, .	3.2	12
111	Anomalous itinerant magnetism in single-crystalSr4Ru3O10: A thermodynamic and transport investigation. Physical Review B, 2007, 75, .	3.2	12
112	Evidence of in-plane ferromagnetic order probed by planar Hall effect in the geometry-confined ruthenate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">R</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	12
113	Honeycomb lattice Na2IrO3 at high pressures: A robust spin-orbit Mott insulator. Physical Review B, 2018, 98, .	3.2	12
114	Observation of Strong Spin Valve Effect in BulkCa3(Ru1âˆ’xCrx)2O7. Physical Review Letters, 2008, 100, 016604.	7.8	11
115	Magnetic reversal in Sr4Ru3O10 nanosheets probed by anisotropic magnetoresistance. Physical Review B, 2018, 98, .	3.2	11
116	Investigations of metastable Ca2IrO4 epitaxial thin-films: systematic comparison with Sr2IrO4 and Ba2IrO4. Scientific Reports, 2016, 6, 25967.	3.3	10
117	Crossover between Mott and Efros-Shklovskii variable-range hopping in Sr2IrO4 epitaxial thin films by misfit strain and isovalent doping. Journal of Applied Physics, 2019, 126, .	2.5	10
118	Keldysh Space Control of Charge Dynamics in a Strongly Driven Mott Insulator. Physical Review Letters, 2022, 128, 187402.	7.8	10
119	Size effect on the magnetic phase in Sr₄Ru₃O₁₀. New Journal of Physics, 2016, 18, 053019.	2.9	9
120	Simultaneous metal-insulator and antiferromagnetic transitions in orthorhombic perovskite iridateSr0.94Ir0.78O2.68single crystals. Physical Review B, 2016, 93, .	3.2	9
121	Observation of superconductivity and anomalous electrical resistivity in single-crystal Ir<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	8
122	Giant spin gap and magnon localization in the disordered Heisenberg antiferromagnet Sr2Ir1âˆ’xRuxO4. Physical Review B, 2017, 95, .	3.2	8
123	Observation of oscillatory magnetoresistance periodic in1âˆ•BandBinCa3Ru2O7. Physical Review B, 2006, 73, .	3.2	7
124	Ca3Ru2O7: A NEW PARADIGM FOR SPINTRONICS. Modern Physics Letters B, 2008, 22, 1785-1813.	1.9	7
125	Evolution of magnetism in single-crystalCa2Ru1âˆ’xIrxO4(0â‰¤xâ‰¤0.65). Physical Review B, 2015, 92, .	3.2	7
126	Electrically tunable transport and high-frequency dynamics in antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	7

#	Article	IF	Citations
127	In-plane magnetic anisotropy of the Sr4Ru3O10 nanosheet probed by planar Hall effect. Applied Physics Letters, 2017, 111, .	3.3	7
128	Momentum-resolved lattice dynamics of parent and electron-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO₄. Physical Review B, 2019, 100, .	3.2	7
129	Magnetic excitations in hole-doped Sr2IrO4 : Comparison with electron-doped cuprates. Physical Review B, 2019, 100, .	3.2	7
130	Pseudospin-lattice coupling and electric control of the square-lattice iridate Sr2IrO4. Physical Review B, 2020, 102, .	3.2	7
131	Decoupling of magnetism and electric transport in single-crystal (Sr_{1â^'x}A<sub>) Tj ETQq1 1 0.784314 rgBT /Overlock 2018, 30, 245801.	1.8	6
132	Anisotropic antiferromagnetic order in the spin-orbit coupled trigonal-lattice <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>CoO₆. Physical Review B, 2018, 97, .	3.2	6
133	Origin of the exciton mass in the frustrated Mott insulator Na2IrO3. Physical Review B, 2017, 96, .	3.2	5
134	Observation of a pressure-induced transition from interlayer ferromagnetism to intralayer antiferromagnetism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO₄. Physical Review B, 2018, 98, .	3.2	5
135	Towards electrical-current control of quantum states in spinâ€“orbit-coupled matter. Journal of Physics Condensed Matter, 2020, 32, 423001.	1.8	5
136	Decoupling of static and dynamic criticality in a driven Mott insulator. Communications Physics, 2022, 5, .	5.3	5
137	Ground-state tuning of metal-insulator transition by compositional variations inBaIr1â^'xRuxO3(0â‰¤xâ‰¤1). Physical Review B, 2016, 93, .	3.2	4
138	Non-destructive reversible resistive switching in Cr doped Mott insulator Ca2RuO4: Interface vs bulk effects. Journal of Applied Physics, 2017, 122, .	2.5	4
139	Nonsymmorphic Dirac semimetal and carrier dynamics in the doped spin-orbit-coupled Mott insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO₄. Physical Review B, 2020, 102, .	3.2	4
140	Quest for quantum states via field-altering technology. Npj Quantum Materials, 2020, 5, .	5.2	4
141	Correlation between antiferromagnetic and Mott states in spin orbit coupled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO₄ : A study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>IrO₄. Physical Review B, 2021, 103, .	3.2	4
142	Enhancement of the spinâ€“orbit coupling by strong electronic correlations in transition metal and light actinide compounds. Journal of Physics Condensed Matter, 2020, 32, 445601.	1.8	4
143	Magnetic anisotropy and geometrical frustration in the Ising spin-chain system Sr5Rh4O12. Journal of Applied Physics, 2011, 109, 07E164.	2.5	3
144	Superconductivity in Y₄RuGe₈ with a Vacancy-Ordered CeNiSi₂-Type Superstructure. Chemistry of Materials, 2021, 33, 7839-7847.	6.7	3

#	Article	IF	Citations
145	Lattice flexibility in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math> : Control of electrical transport via anisotropic magnetostriction. Physical Review B, 2021, 104, .	3.2	3
146	Ca3(Ru1â^'xCrx)2O7: A new paradigm for spin valves. Journal of Applied Physics, 2010, 107, 09D718.	2.5	2
147	Exploring the energy landscape of resistive switching in antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>	3.2	2
148	Competition of three-dimensional magnetic phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ca</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ru</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> : A structural perspective. Physical Review B, 2020, 102, .	3.2	2
149	Resistive switching in tunnel junctions with a single-crystal La2NiO4 electrode. Journal Physics D: Applied Physics, 2020, 53, 075302.	2.8	2
150	Ground state in proximity to a possible Kitaev spin liquid: The undistorted honeycomb iridate NaxIrO3 (0.60â‰¤xâ‰¤0.80). Physical Review B, 2021, 104, .	3.2	2
151	Electronic and optical properties of La-doped Sr3Ir2O7 epitaxial thin films. Physical Review Materials, 2018, 2, .	2.4	2
152	Mechanical control of physical properties in the van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ge</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Te</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> via application of electric current. Physical Review B, 2022, 106, .	3.2	2
153	Ground state in the novel dimer iridate Ba13Ir6O30 with Ir6+(5d3) ions. Physical Review B, 2019, 100, .	3.2	1
154	Charge ordering in Ir dimers in the ground state of Ba5AlIr2O11. Physical Review B, 2022, 105, .	3.2	1
155	Destruction of an orbitally ordered and spin-polarized state: Colossal magnetoresistance in Ca3Ru2O7. Journal of Electronic Materials, 2004, 33, 1303-1307.	2.2	0
156	New materials for spintronics. , 2009, , .		0
157	The promise of strong spin-orbit coupling: Novel materials with novel properties for novel devices. , 2010, , .		0
158	THE CONTRADICTORY PHYSICAL PROPERTIES AND EXTREME ANISOTROPY OF Ca3Ru2O7. , 2013, , 179-214.		0
159	INSTABILITY OF THE J_{eff} = 1/2 INSULATING STATE IN Sr_{n+1}Ir_nO_{3n+1} (n = 1 AND 2). , 2013, , 269-315.		0
160	Evidence of resistive switching into a dynamical state in antiferromagnetic iridates. AIP Advances, 2019, 9, .	1.3	0