

J-G Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220
papers

5,778
citations

37
h-index

69
g-index

246
ext. papers

6,961
ext. citations

5.1
avg, IF

5.64
L-index

#	Paper	IF	Citations
220	Possible superconductivity at ~70 K in tin hydride SnH _x under high pressure. <i>Materials Today Physics</i> , 2022 , 22, 100596	8	9
219	A density-wave-like transition in the polycrystalline V ₃ Sb ₂ sample with bilayer kagome lattice. <i>Chinese Physics B</i> , 2022 , 31, 017106	1.2	0
218	Correlation between boson peak and thermal expansion manifested by physical aging and high pressure. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, 1	3.6	0
217	Pressure driven phase transitions in honeycomb Fe ₄ Nb ₂ O ₉ : A possible re-entrant multiferroic behavior. <i>Journal of Applied Physics</i> , 2022 , 131, 084101	2.5	
216	Interplay between Charge-Density-Wave, Superconductivity, and Ferromagnetism in Cu _{1-x} Cr _x Te Chalcogenides.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2442-2451	6.4	1
215	Pressure-Induced Superconductivity up to 9K in the Quasi-One-Dimensional KMn ₆ Bi ₅ .. <i>Physical Review Letters</i> , 2022 , 128, 187001	7.4	4
214	Quasi-one-dimensional superconductivity in the pressurized charge-density-wave conductor HfTe ₃ . <i>Npj Quantum Materials</i> , 2021 , 6,	5	5
213	Competition between charge-density-wave and superconductivity in the kagome metal RbV ₃ Sb ₅ . <i>Physical Review Research</i> , 2021 , 3,	3.9	8
212	Superconducting phase diagram and the evolution of electronic structure across charge density wave in underdoped 1T-TaSe ₂ under hydrostatic pressure. <i>Physical Review B</i> , 2021 , 104,	3.3	2
211	Strongly correlated superconductivity in a copper-based metal-organic framework with a perfect kagome lattice. <i>Science Advances</i> , 2021 , 7,	14.3	11
210	Probing magnetic symmetry in antiferromagnetic Fe ₄ Nb ₂ O ₉ single crystals by linear magnetoelectric tensor. <i>Physical Review B</i> , 2021 , 103,	3.3	2
209	Monoclinic EuSn ₂ As ₂ : A Novel High-Pressure Network Structure. <i>Physical Review Letters</i> , 2021 , 126, 155701	7.4	4
208	Double Superconducting Dome and Triple Enhancement of T _c in the Kagome Superconductor CsV ₃ Sb ₅ under High Pressure. <i>Physical Review Letters</i> , 2021 , 126, 247001	7.4	63
207	Anisotropic Superconducting Properties of Kagome Metal CsV ₃ Sb ₅ . <i>Chinese Physics Letters</i> , 2021 , 38, 057403	1.8	34
206	Effects of disorder and hydrostatic pressure on charge density wave and superconductivity in 2H-TaS ₂ . <i>Physical Review B</i> , 2021 , 103,	3.3	4
205	Thermal Dynamics of Charge Density Wave Pinning in ZrTe ₃ . <i>Physical Review Letters</i> , 2021 , 126, 256401	7.4	3
204	A low-T _c superconducting modification of Th ₄ H ₁₅ synthesized under high pressure. <i>Superconductor Science and Technology</i> , 2021 , 34, 034006	3.1	7

203	Survival of itinerant excitations and quantum spin state transitions in YbMgGaO with chemical disorder. <i>Nature Communications</i> , 2021 , 12, 4949	17.4	4
202	Dimensional crossover tuned by pressure in layered magnetic NiPS ₃ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	1
201	Anomalous charge density wave state evolution and dome-like superconductivity in CuIr ₂ Te _{4-x} Se _x chalcogenides. <i>Superconductor Science and Technology</i> , 2021 , 34, 115003	3.1	4
200	Superconducting phase diagrams of S-doped 2H-TaSe ₂ under hydrostatic pressure. <i>Physical Review B</i> , 2020 , 102,	3.3	3
199	Coupled magnetic and structural phase transitions in the antiferromagnetic polar metal Pb ₂ CoOsO ₆ under pressure. <i>Physical Review B</i> , 2020 , 102,	3.3	1
198	Pressure effect on the magnetoresistivity of topological semimetal RhSn. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 355601	1.8	1
197	Metal-to-metal transition and heavy-electron state in Nd ₄ Ni ₃ O ₁₀ . <i>Physical Review B</i> , 2020 , 101,	3.3	10
196	High pressure synthesis and characterization of the pyrochlore Dy ₂ Pt ₂ O ₇ : A new spin ice material. <i>Chinese Physics B</i> , 2020 , 29, 047502	1.2	0
195	Pressure-Induced Metallization and Structural Phase Transition in the Quasi-One-Dimensional TlFeSe ₂ . <i>Chinese Physics Letters</i> , 2020 , 37, 047102	1.8	5
194	Physical properties and pressure-induced superconductivity in the single-crystalline band insulator SnO. <i>Physical Review B</i> , 2020 , 101,	3.3	1
193	Single crystal growth, structural and transport properties of bad metal RhSb ₂ . <i>Chinese Physics B</i> , 2020 , 29, 037101	1.2	0
192	Pressure effect on the anomalous Hall effect of ferromagnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
191	Realization of the orbital-selective Mott state at the molecular level in Ba ₃ LaRu ₂ O ₉ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
190	Giant pressure-enhancement of multiferroicity in CuBr ₂ . <i>Physical Review Research</i> , 2020 , 2,	3.9	1
189	Structural evolution across the metal-insulator transition of strongly distorted Lu _{1-x} Sc _x NiO ₃ perovskites (x = 0, 0.1, 0.2). <i>Materials Research Express</i> , 2020 , 7, 126301	1.7	
188	Room-temperature electric field modulation of magnetization in a helimagnet. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 025001	3	4
187	Unusual magnetostriction behavior and magnetoelectric effect in spinel MnV ₂ O ₄ . <i>Physical Review B</i> , 2020 , 102,	3.3	2
186	Fabrication and evaluation via nuclear quadrupole resonance of a palm cubic-anvil pressure cell. <i>Review of Scientific Instruments</i> , 2020 , 91, 073907	1.7	

185	Anomalous and topological Hall effect in Cu doped Sb ₂ Te ₃ topological insulator. <i>Applied Physics Letters</i> , 2020 , 117, 092403	3.4	0
184	Pressure-induced second high-T _c superconducting phase in the organic-ion-intercalated (CTA) _{0.3} FeSe single crystal. <i>Europhysics Letters</i> , 2020 , 130, 67004	1.6	5
183	Complex antiferromagnetic order in the garnet Co ₃ Al ₂ Si ₃ O ₁₂ . <i>Physical Review B</i> , 2020 , 101,	3.3	1
182	A new (Mg _{0.5} Fe _{0.53+})(Si _{0.5} Al _{0.53+})O ₃ LiNbO ₃ -type phase synthesized at lower mantle conditions. <i>American Mineralogist</i> , 2019 , 104, 1213-1216	2.9	4
181	Pressure-induced enhancement of thermoelectric power factor in pristine and hole-doped SnSe crystals.. <i>RSC Advances</i> , 2019 , 9, 26831-26837	3.7	4
180	Low-temperature crystal and magnetic structures of the magnetoelectric material Fe ₄ Nb ₂ O ₉ . <i>Physical Review B</i> , 2019 , 100,	3.3	9
179	Large Positive Zero-Field Splitting in the Cluster Magnet BaCeRuO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9928-9936	16.4	7
178	Ionic-Liquid-Gating Induced Protonation and Superconductivity in FeSe, FeSe _{0.93} S _{0.07} , ZrNCl, 1T-TaS ₂ and Bi ₂ Se ₃ *. <i>Chinese Physics Letters</i> , 2019 , 36, 077401	1.8	10
177	Superconductivity in WP single crystals. <i>Physical Review B</i> , 2019 , 99,	3.3	12
176	Pressure effect on spin-driven multiferroicity in a Y-type hexaferrite. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 4173-4177	7.1	2
175	Resistivity measurements unveil microscopic properties of CrAs. <i>Europhysics Letters</i> , 2019 , 125, 57002	1.6	11
174	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator BiBr. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17696-17700	11.5	18
173	Magnetic-Competition-Induced Colossal Magnetoresistance in n-Type HgCr ₂ Se ₄ under High Pressure. <i>Physical Review Letters</i> , 2019 , 123, 047201	7.4	6
172	Pressure-Induced Large Volume Collapse, Plane-to-Chain, Insulator to Metal Transition in CaMnBi. <i>Inorganic Chemistry</i> , 2019 , 58, 8933-8937	5.1	2
171	Asymmetric ferromagnetic criticality in pyrochlore ferromagnet Lu ₂ V ₂ O ₇ . <i>Science Bulletin</i> , 2019 , 64, 1222-1227	10.6	2
170	Optical study on the possible Slater insulator SrIr _{0.8} Sn _{0.2} O ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	1
169	Robust two-gap strong coupling superconductivity associated with low-lying phonon modes in pressurized Nb ₅ Ir ₃ O superconductors. <i>Chinese Physics B</i> , 2019 , 28, 107401	1.2	3
168	Crystal growth and magnetic structure of MnBi ₂ Te ₄ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	140

167	Suppression of the antiferromagnetic metallic state in the pressurized MnBi ₂ Te ₄ single crystal. <i>Physical Review Materials</i> , 2019 , 3,	3.2	22
166	High-pressure phase of CrSb ₂ : A new quasi-one-dimensional itinerant magnet with competing interactions. <i>Physical Review Materials</i> , 2019 , 3,	3.2	1
165	Nonmetallic metal toward a pressure-induced bad-metal state in two-dimensional CuLiRuO. <i>Chemical Communications</i> , 2019 , 56, 265-268	5.8	1
164	Enhanced orbital fluctuations in Mg-doped MnV ₂ O ₄ single crystals. <i>Physical Review B</i> , 2019 , 100,	3.3	2
163	Lattice distortion in the spin-orbital entangled state in RVO ₃ perovskites. <i>Physical Review B</i> , 2019 , 100,	3.3	3
162	Quantum-critical phase from frustrated magnetism in a strongly correlated metal. <i>Nature Physics</i> , 2019 , 15, 1261-1266	16.2	21
161	Pressure-induced enhancement of superconductivity and quantum criticality in the 12442-type hybrid-structure superconductor KCa ₂ Fe ₄ As ₄ F ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	12
160	Effect of pressure on the self-hole-doped superconductor RbGdFeAsO. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 044001	1.8	1
159	Magnetic order of NdPb single crystals. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 135801	1.8	2
158	Pentavalent iridium pyrochlore Cd ₂ Ir ₂ O ₇ : A prototype material system for competing crystalline field and spin-orbit coupling. <i>Physical Review B</i> , 2018 , 97,	3.3	6
157	Pseudogap temperature T* of cuprate superconductors from the Nernst effect. <i>Physical Review B</i> , 2018 , 97,	3.3	60
156	High-T _c superconductivity up to 55 K under high pressure in a heavily electron doped Li _{0.36} (NH ₃) _y Fe ₂ Se ₂ single crystal. <i>Physical Review B</i> , 2018 , 97,	3.3	33
155	Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped Ca _{0.8} Sr _{0.2} Fe ₂ As ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	5
154	Reemergence of high-T superconductivity in the (LiFe)OHFeSe under high pressure. <i>Nature Communications</i> , 2018 , 9, 380	17.4	50
153	Polarized neutron diffraction study in helical magnetic phases of MnP. <i>Physica B: Condensed Matter</i> , 2018 , 551, 115-117	2.8	
152	Spin freezing into a disordered state in CaFeTi ₂ O ₆ synthesized under high pressure. <i>Physical Review B</i> , 2018 , 98,	3.3	2
151	Cubic anvil cell apparatus for high-pressure and low-temperature physical property measurements. <i>Chinese Physics B</i> , 2018 , 27, 077403	1.2	6
150	Effect of chemical and hydrostatic pressure on the cubic pyrochlore Cd ₂ Ru ₂ O ₇ . <i>Physical Review B</i> , 2018 , 98,	3.3	2

149	High-field phase diagram and phase transitions in hexagonal manganite ErMnO ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	6
148	Two distinct superconducting phases and pressure-induced crossover from type-II to type-I superconductivity in the spin-orbit-coupled superconductors BaBi ₃ and SrBi ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	4
147	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9935-9940	11.5	23
146	Evolution of Magnetic Double Helix and Quantum Criticality near a Dome of Superconductivity in CrAs. <i>Physical Review X</i> , 2018 , 8,	9.1	12
145	Bipolar Conduction as the Possible Origin of the Electronic Transition in Pentatellurides: Metallic vs Semiconducting Behavior. <i>Physical Review X</i> , 2018 , 8,	9.1	41
144	Universal phase diagram of superconductivity and charge density wave versus high hydrostatic pressure in pure and Se-doped 1T-TaS ₂ . <i>Physical Review B</i> , 2018 , 97,	3.3	13
143	First-principles calculations of the magnetic and electronic structures of MnP under pressure. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 244001	1.8	4
142	High-Pressure Synthesis, Crystal Structure, and Magnetic and Transport Properties of a Six-Layered SrRhO. <i>Inorganic Chemistry</i> , 2017 , 56, 8187-8194	5.1	3
141	Structural evolution behavior of manganese monophosphide under high pressure: experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 254002	1.8	4
140	Maximizing T by tuning nematicity and magnetism in FeSe S superconductors. <i>Nature Communications</i> , 2017 , 8, 1143	17.4	66
139	Evidence for pressure-induced node-pair annihilation in Cd ₃ As ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	7
138	Effect of hydrostatic pressure on the superconducting properties of quasi-1D superconductor KCrAs. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 455603	1.8	4
137	Special issue on pressure-induced superconductivity in CrAs and MnP. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 440301	1.8	2
136	Hydrostatic pressure effects on the static magnetism in Eu(FeCo)As. <i>Scientific Reports</i> , 2017 , 7, 3532	4.9	6
135	Large negative magnetoresistance of a nearly Dirac material: Layered antimonide EuMnSb ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	22
134	Heavy fermion behavior in the quasi-one-dimensional Kondo lattice CeCo ₂ Ga ₈ . <i>Npj Quantum Materials</i> , 2017 , 2,	5	14
133	Pressure-induced bulk superconductivity in a layered transition-metal dichalcogenide 1T-tantalum selenium. <i>Physical Review B</i> , 2017 , 95,	3.3	25
132	High-T _c Superconductivity in FeSe at High Pressure: Dominant Hole Carriers and Enhanced Spin Fluctuations. <i>Physical Review Letters</i> , 2017 , 118, 147004	7.4	51

131	Pressure-induced superconductivity in CrAs and MnP. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 383003	1.8	13
130	Ultrastrong Boron Frameworks in ZrB : A Highway for Electron Conducting. <i>Advanced Materials</i> , 2017 , 29, 1604003	24	50
129	La(Zn $1-x$ Mn x Cu x)SbO: A new diluted magnetic semiconductor isostructural to 1111-type iron pnictide superconductors. <i>Europhysics Letters</i> , 2017 , 120, 47005	1.6	4
128	Pressure-Induced Charge-Order Melting and Reentrant Charge Carrier Localization in the Mixed-Valent Pb ₃ Rh ₇ O ₁₅ . <i>Chinese Physics Letters</i> , 2017 , 34, 087201	1.8	
127	Giant reversible magnetocaloric effect in the pyrochlore Er ₂ Mn ₂ O ₇ due to a cooperative two-sublattice ferromagnetic order. <i>Physical Review Materials</i> , 2017 , 1,	3.2	8
126	Pressure-tuned magnetic quantum critical point and unconventional superconductivity. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2017 , 66, 037401	0.6	3
125	Strong enhancement of spin ordering by A-site magnetic ions in the ferrimagnet CaCu ₃ Fe ₂ O ₈ . <i>Physical Review B</i> , 2016 , 94,	3.3	33
124	High-pressure synthesis and characterization of the effective pseudospin S=1/2 XY pyrochlores R ₂ Pt ₂ O ₇ (R=Er,Yb). <i>Physical Review B</i> , 2016 , 93,	3.3	17
123	Pressure dependence of the magnetic ground states in MnP. <i>Physical Review B</i> , 2016 , 93,	3.3	27
122	Spiral magnetic order and pressure-induced superconductivity in transition metal compounds. <i>Nature Communications</i> , 2016 , 7, 13037	17.4	19
121	Anomalous bulk modulus in vanadate spinels. <i>Physical Review B</i> , 2016 , 94,	3.3	7
120	Slater Insulator in Iridate Perovskites with Strong Spin-Orbit Coupling. <i>Physical Review Letters</i> , 2016 , 117, 176603	7.4	23
119	Possible Bose-Einstein condensate associated with an orbital degree of freedom in the Mott insulator CaCrO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	3
118	Dome-shaped magnetic order competing with high-temperature superconductivity at high pressures in FeSe. <i>Nature Communications</i> , 2016 , 7, 12146	17.4	161
117	Absence of superconductivity in the collapsed tetragonal phase of KFe ₂ As ₂ under hydrostatic pressure. <i>Physical Review B</i> , 2016 , 94,	3.3	10
116	Long-range magnetic order in the Heisenberg pyrochlore antiferromagnets Gd ₂ Ge ₂ O ₇ and Gd ₂ Pt ₂ O ₇ synthesized under high pressure. <i>Physical Review B</i> , 2016 , 94,	3.3	14
115	Direct and real time probe of photoinduced structure transition in colossal magnetoresistive material. <i>Applied Physics Letters</i> , 2016 , 109, 041905	3.4	1
114	Up-up-down-down magnetic chain structure of the spin-12 tetragonally distorted spinel GeCu ₂ O ₄ . <i>Physical Review B</i> , 2016 , 94,	3.3	11

113	Competition of superconductivity with the structural transition in Mo ₃ Sb ₇ . <i>Physical Review B</i> , 2016 , 94,	3-3	3
112	Pressure induced superconductivity on the border of magnetic order in MnP. <i>Physical Review Letters</i> , 2015 , 114, 117001	7-4	99
111	Charge Transfer Induced Multifunctional Transitions with Sensitive Pressure Manipulation in a Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2015 , 54, 6433-8	5-1	39
110	Competition between the inter- and intra-sublattice interactions in Yb ₂ V ₂ O ₇ . <i>Physical Review B</i> , 2015 , 91,	3-3	2
109	Spin-orbital liquid and quantum critical point in Y _{1-x} LaxTiO ₃ . <i>Physical Review B</i> , 2015 , 91,	3-3	10
108	Ferromagnetic superexchange in insulating Cr ₂ MoO ₆ by controlling orbital hybridization. <i>Physical Review B</i> , 2015 , 92,	3-3	10
107	High antiferromagnetic transition temperature of the honeycomb compound SrRu ₂ O ₆ . <i>Physical Review B</i> , 2015 , 92,	3-3	33
106	Antiferromagnetic order in the pyrochlores R ₂ Ge ₂ O ₇ (R=Er,Yb). <i>Physical Review B</i> , 2015 , 92,	3-3	38
105	Pressure-induced spin reorientation and spin state transition in SrCoO ₃ . <i>Physical Review B</i> , 2015 , 92,	3-3	14
104	Hardness, elastic, and electronic properties of chromium monoboride. <i>Applied Physics Letters</i> , 2015 , 106, 221902	3-4	46
103	Anomalous anisotropic compression behavior of superconducting CrAs under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14766-70	11-5	11
102	Charge disproportionation and the pressure-induced insulator-metal transition in cubic perovskite PbCrO ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 16704-4	11-5	31
101	Long-range antiferromagnetic order in the frustrated XY pyrochlore antiferromagnet Er ₂ Ge ₂ O ₇ . <i>Physical Review B</i> , 2014 , 89,	3-3	17
100	Superconductivity in the vicinity of antiferromagnetic order in CrAs. <i>Nature Communications</i> , 2014 , 5, 5508	17-4	148
99	Magnetic phase transformation induced by electrochemical lithium intercalation in Li _{1+x} EuTiO ₄ and Li _{2+2x} Eu ₂ Ti ₃ O ₁₀ (0 ≤ x ≤ 1) compounds. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2047-2060	2-6	7
98	Abnormal elastic and vibrational behaviors of magnetite at high pressures. <i>Scientific Reports</i> , 2014 , 4, 6282	4-9	22
97	Incipient ferromagnetism in Tb ₂ Ge ₂ O ₇ : application of chemical pressure to the enigmatic spin-liquid compound Tb ₂ Ti ₂ O ₇ . <i>Physical Review Letters</i> , 2014 , 113, 267205	7-4	19
96	Competition between heavy fermion and Kondo interaction in isoelectronic A-site-ordered perovskites. <i>Nature Communications</i> , 2014 , 5, 5818	17-4	12

95	Chemical pressure effects on magnetism in the quantum spin liquid candidates Yb ₂ X ₂ O ₇ (X=Sn, Ti, Ge). <i>Physical Review B</i> , 2014 , 89,	3.3	48
94	High-pressure effects in anti-post-perovskite superconductors V ₃ PnN _x (Pn = P, As). <i>Physical Review B</i> , 2014 , 89,	3.3	5
93	Integrated-fin gasket for palm cubic-anvil high pressure apparatus. <i>Review of Scientific Instruments</i> , 2014 , 85, 093907	1.7	51
92	Pressure dependence of the superconducting transition temperature of the filled skutterudite YFe ₄ P ₁₂ . <i>Physical Review B</i> , 2013 , 88,	3.3	5
91	Mechanism of the CaIrO ₃ post-perovskite phase transition under pressure. <i>Physical Review B</i> , 2013 , 88,	3.3	11
90	Anomalous perovskite PbRuO ₃ stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20003-7	11.5	8
89	High-pressure synthesis of the BaIrO ₃ perovskite: A Pauli paramagnetic metal with a Fermi liquid ground state. <i>Physical Review B</i> , 2013 , 88,	3.3	18
88	Effect of an Internal Electric Field on the Redox Energies of ALnTiO ₄ (A = Na or Li, Ln = Y or Rare-Earth). <i>Chemistry of Materials</i> , 2013 , 25, 3852-3857	9.6	19
87	Zhang-Rice physics and anomalous copper states in A-site ordered perovskites. <i>Scientific Reports</i> , 2013 , 3, 1834	4.9	35
86	Unusual structural evolution in KCuF ₃ at high temperatures by neutron powder diffraction. <i>Physical Review B</i> , 2013 , 87,	3.3	10
85	Study of atomic structure and electronic structure of an A ₂ B ₂ B ₄ O ₁₂ double-perovskite CaCu ₃ Ir ₄ O ₁₂ using STEM imaging and EELS techniques. <i>Ultramicroscopy</i> , 2013 , 127, 94-9	3.1	10
84	A superior low-cost cathode for a Na-ion battery. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1964-7	16.4	586
83	High-pressure synthesis, structure, and photoluminescence of a new KSbO ₃ -type bismuth germanate Bi ₃ Ge ₃ O _{10.5} . <i>Inorganic Chemistry</i> , 2013 , 52, 2138-41	5.1	4
82	Critical behavior of the ferromagnetic perovskites RTiO ₃ (R = Dy, Ho, Er, Tm, Yb) by magnetocaloric measurements. <i>Physical Review B</i> , 2013 , 87,	3.3	51
81	Crystal and magnetic structures and physical properties of a new pyroxene NaMnGe ₂ O ₆ synthesized under high pressure. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2776-86	16.4	15
80	Pressure Effect on the Structure and Superconducting Transition Temperature of Filled Skutterudites LaT ₄ P ₁₂ (T=Fe, Ru). <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 114702	1.5	3
79	Determination of hole distribution in Sr _{14-x} CaxCu ₂₄ O ₄₁ using soft x-ray absorption spectroscopy at the Cu L ₃ edge. <i>Physical Review B</i> , 2013 , 88,	3.3	13
78	Lattice effects on ferromagnetism in perovskite ruthenates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13312-5	11.5	17

77	Possible Kondo physics near a metal-insulator crossover in the a-site ordered perovskite $\text{CaCu}_3\text{Ir}_4\text{O}_{12}$. <i>Physical Review Letters</i> , 2013 , 111, 176403	7.4	21
76	A Superior Low-Cost Cathode for a Na-Ion Battery. <i>Angewandte Chemie</i> , 2013 , 125, 2018-2021	3.6	66
75	Large magnetocaloric properties in single-crystal dysprosium titanate. <i>Materials Letters</i> , 2012 , 72, 15-17	3.3	10
74	Magnetic coupling between Sm^{3+} and the canted spin in an antiferromagnetic SmFeO_3 single crystal. <i>Physical Review B</i> , 2012 , 86,	3.3	57
73	Statics and dynamics of the highly correlated spin ice $\text{Ho}_2\text{Ge}_2\text{O}_7$. <i>Physical Review B</i> , 2012 , 86,	3.3	29
72	Magnetocaloric properties of single crystalline YbTiO_3 with second order phase transition. <i>Journal of Physics: Conference Series</i> , 2012 , 400, 032093	0.3	0
71	Synthesis and Characterization of $\text{Sr}_2\text{Cu}(\text{W}_{1-x}\text{Mox})\text{O}_6$: A Quasi-Two-Dimensional Magnetic System. <i>Chemistry of Materials</i> , 2012 , 24, 2764-2774	9.6	25
70	Characterization of the Double Perovskite $\text{Ba}_2\text{BixSc}_{0.2}\text{Co}_{1.8}\text{O}_6$ ($x = 0.1, 0.2$). <i>Chemistry of Materials</i> , 2012 , 24, 4114-4122	9.6	26
69	Critical behavior of ferromagnetic perovskite ruthenates. <i>Physical Review B</i> , 2012 , 85,	3.3	23
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