

# Huibo Cao

## List of Publications by Year in descending order

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181  
papers

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88630

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times ranked

7187  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bi-layer Square Lattice $Tb_2SrAl_2O_7$ with Structural $Z_8$ Vortices and Magnetic Frustration. Chemistry of Materials, 2022, 34, 1225-1234.	6.7	3
2	Role of the third dimension in searching for Majorana fermions in $\hat{I}_\pm$ via phonons. Physical Review Research, 2022, 4, .	11.6	1
3	Toward tunable quantum transport and novel magnetic states in $Eu_1-xSrxMn_1-zSb_2$ ( $z \leq 0.05$ ). NPC Asia Materials, 2022, 14, .	7.9	8
4	Non-magnetic ion site disorder effects on the quantum magnetism of a spin-1/2 equilateral triangular lattice antiferromagnet. Journal of Physics Condensed Matter, 2022, 34, 205401.	1.8	1
5	Unusual Electrical and Magnetic Properties in Layered $EuZn_2As_2$ . Advanced Quantum Technologies, 2022, 5, .	3.9	15
6	Anticollinear order and degeneracy lifting in square lattice antiferromagnet $LaSrCrO_4$ . Physical Review B, 2022, 105, .	11.2	1
7	Evidence for pressure induced unconventional quantum criticality in the coupled spin ladder antiferromagnet $C_9H_{18}N_2CuBr_4$ . Nature Communications, 2022, 13, .	12.8	3
8	Symmetry progression and possible polar metallicity in $NiPS_3$ under pressure. Npj 2D Materials and Applications, 2022, 6, .	7.9	4
9	PIONEER, a high-resolution single-crystal polarized neutron diffractometer. Review of Scientific Instruments, 2022, 93, .	1.3	7
10	Helical magnetic order and Fermi surface nesting in noncentrosymmetric $ScFeGe$ . Physical Review B, 2021, 103, .	3.2	5
11	Vacancy defect control of colossal thermopower in $FeSb_2$ . Npj Quantum Materials, 2021, 6, .	5.2	13
12	Neutron diffraction study of magnetism in van der Waals layered $MnBi_2nTe_{3n+1}$ . Journal Physics D: Applied Physics, 2021, 54, 174003.	2.8	13
13	Helimagnetism in $MnBi_2Se_4$ Driven by Spin-Frustrating Interactions Between Antiferromagnetic Chains. Crystals, 2021, 11, 242.	2.2	9
14	Neutron scattering investigation of proposed Kosterlitz-Thouless transitions in the triangular-lattice Ising antiferromagnet $TmMgGaO_4$ . Physical Review B, 2021, 103, .	3.2	16
15	Observation of novel charge ordering and spin reorientation in perovskite oxide $PbFeO_3$ . Nature Communications, 2021, 12, 1917.	12.8	17
16	Flat-band-induced itinerant ferromagnetism in $RbCo_2Se_2$ . Physical Review B, 2021, 103, .	3.2	8
17	Structure-property correlation in stabilizing axial magnetic anisotropy in octahedral $Co(II)$ complexes. Cell Reports Physical Science, 2021, 2, 100404.	5.6	23
18	Spinon Fermi Surface Spin Liquid in a Triangular Lattice Antiferromagnet $NaYbSe_2$ . Physical Review X, 2021, 11, .	8.9	42

#	ARTICLE	IF	CITATIONS
19	Magnetic excitations of the hybrid multiferroic $\text{Nd}_2\text{Mn}_2\text{O}_7$ . Physical Review B, 2021, 103, .	12.8	32
20	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal $\text{BaMnSb}_2$ . Nature Communications, 2021, 12, 4062.	12.8	32
21	Reinvestigation of crystal symmetry and fluctuations in $\text{LaMnO}_3$ . Physical Review B, 2021, 104, .	12.8	32
22	Tuning magnetism and band topology through antisite defects in Sb-doped $\text{MnBi}$ . Physical Review B, 2021, 104, .	12.8	32
23	Ferromagnetic $\text{Cr}_4\text{PtGa}_{17}$ : A Half-Heusler-Type Compound with a Breathing Pyrochlore Lattice. Journal of the American Chemical Society, 2021, 143, 14342-14351.	13.7	6
24	Field-tunable toroidal moment in a chiral-lattice magnet. Nature Communications, 2021, 12, 5339.	12.8	13
25	Coexistence of Magnetoelectric and Antiferroelectric-like Orders in $\text{Mn}_3\text{Ta}_2\text{O}_8$ . Inorganic Chemistry, 2021, 60, 15078-15084.	4.0	1
26	Quantum spin state transitions in the spin-1 equilateral triangular lattice antiferromagnet $\text{Na}_2\text{Mn}_2\text{O}_7$ . Physical Review B, 2021, 104, .	12.8	32
27	Magnetic and electronic structures of antiferromagnetic topological material candidate $\text{EuMg}_2\text{Bi}_2$ . Journal of Applied Physics, 2021, 129, .	2.5	19
28	Spin excitations in metallic kagome lattice $\text{FeSn}$ and $\text{CoSn}$ . Communications Physics, 2021, 4, .	5.3	23
29	A van der Waals antiferromagnetic topological insulator with weak interlayer magnetic coupling. Nature Communications, 2020, 11, 97.	12.8	176
30	Observation of a Large Magnetic Anisotropy and a Field-Induced Magnetic State in $\text{SrCo}(\text{VO}_4)(\text{OH})$ : A Structure with a Quasi One-Dimensional Magnetic Chain. Inorganic Chemistry, 2020, 59, 1029-1037.	4.0	7
31	Magnetic field induced phase transition in spinel $\text{GeNi}_2\text{O}_4$ . Physical Review B, 2020, 102, .	3.2	2
32	$\text{Nd}$ -type antiferromagnetic order and magnetic field-temperature phase diagram in the spin-rare-earth honeycomb compound $\text{YbCl}_3$ . Physical Review B, 2020, 102, .	3.2	48
33	Realization of an intrinsic ferromagnetic topological state in $\text{MnBi}_8\text{Te}_{13}$ . Science Advances, 2020, 6, eaba4275.	10.3	122
34	Competition of three-dimensional magnetic phases in $\text{CaMn}_2\text{O}_4$ : A structural perspective. Physical Review B, 2020, 102, .	3.2	2
35	Field-induced magnetic phase transitions and the resultant giant anomalous Hall effect in the antiferromagnetic half-Heusler compound $\text{DyPtBi}$ . Physical Review B, 2020, 102, .	3.2	13
36	Noncollinear magnetic structure and magnetoelectric coupling in buckled honeycomb $\text{Co}_4\text{O}_9$ : A single-crystal neutron diffraction study. Physical Review B, 2020, 102, .	3.2	18

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37	Partial antiferromagnetic helical order in single-crystal Fe <sub>3</sub> PO <sub>4</sub> O <sub>3</sub> . Physical Review B, 2020, 101, .	3.2	3
38	Magnetic properties of ferrimagnetic Mn <sub>3</sub> Si <sub>2</sub> Se <sub>6</sub> . Journal of Magnetism and Magnetic Materials, 2020, 511, 166936.	2.3	8
39	Crystal and magnetic structures of magnetic topological insulators $\text{MnBi}$ and $\text{MnBi}_2\text{Te}_4$ . Physical Review B, 2020, 101, .	3.2	72
40	Noncoplanar ferrimagnetism and local crystalline-electric-field anisotropy in the quasicrystal approximant Au <sub>70</sub> Si <sub>17</sub> Tb <sub>13</sub> . Journal of Physics Condensed Matter, 2020, 32, 415802.	1.8	25
41	Magnetic structure and exchange interactions in the layered semiconductor $\text{CrPS}_4$ . Physical Review B, 2020, 102, .	2.2	33
42	Magnetic order and fluctuations in the quasi-two-dimensional planar magnet Sr( Co <sub>1-x</sub> Ni <sub>x</sub> ) <sub>2</sub> As <sub>2</sub> . Physical Review B, 2020, 102, .	3.2	1
43	Observation of a C-type short-range antiferromagnetic order in layer spacing expanded FeS. Physical Review Materials, 2020, 4, .	2.4	3
44	Canted antiferromagnetic order in the monoaxial chiral magnets V <sub>1/3</sub> TaS <sub>2</sub> and V <sub>1/3</sub> NbS <sub>2</sub> . Physical Review Materials, 2020, 4, .	2.4	15
45	Structural distortion and incommensurate noncollinear magnetism in $\text{EuAg}_4$ . Physical Review Materials, 2020, 4, .	2.4	10
46	Large spin-driven dielectric response and magnetoelectric coupling in the buckled honeycomb $\text{Fe}_4\text{Nb}_2\text{O}_{15}$ . Physical Review Materials, 2020, 4, .	2.4	8
47	Anisotropic properties, charge ordering, and ferrimagnetic structures in the strongly correlated $\text{VO}_2$ . Physical Review Materials, 2020, 4, .	2.4	10
48	Magnetic properties of the low-dimensional BaM <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> system (M=Cu, Co, Mn). Physical Review B, 2019, 100, .	3.2	2
49	Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 Ce <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> pyrochlore. Nature Physics, 2019, 15, 1052-1057.	16.7	92
50	DEMAND, a Dimensional Extreme Magnetic Neutron Diffractometer at the High Flux Isotope Reactor. Crystals, 2019, 9, 5.	2.2	27
51	Consequences of magnetic ordering in chiral $\text{MnS}$ . Physical Review B, 2019, 100, .	3.2	33
52	Flat-band magnetism and helical magnetic order in Ni-doped $\text{SrCo}_2\text{As}_2$ . Physical Review B, 2019, 100, .	2.2	15
53	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO <sub>4</sub> . NPG Asia Materials, 2019, 11, .	7.9	19
54	Anisotropic spin fluctuations in detwinned FeSe. Nature Materials, 2019, 18, 709-716.	27.5	60

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55	<p>Relationship between the <math>n</math> and <math>b</math> parameters in layered <math>\text{BaMn}_2\text{S}_2</math> and <math>\text{BaMn}_2\text{S}_2</math> compounds. <i>Physical Review B</i>, 2019, 100, 080401.</p>	3.2	3
56	<p><math>\text{Na}_2\text{Mn}_3\text{Se}_4</math>: Strongly Frustrated Antiferromagnetic Semiconductor with Complex Magnetic Structure. <i>Inorganic Chemistry</i>, 2019, 58, 5799-5806.</p>	4.0	6
57	<p>Overdamped Antiferromagnetic Strange Metal State in <math>\text{Sr}_3\text{Mn}_2\text{S}_7</math>. <i>Physical Review Letters</i>, 2019, 122, 157201.</p>	7.8	5
58	<p>A New Magnetic Topological Quantum Material Candidate by Design. <i>ACS Central Science</i>, 2019, 5, 900-910.</p>	11.3	63
59	<p>Anomalous magnetic behavior of <math>\text{BaMn}_2\text{S}_2</math> with isolated <math>\text{CoO}</math> layers. <i>Physical Review B</i>, 2019, 100, 080401.</p>	3.2	8
60	<p>Intertwined Magnetic and Nematic Orders in Semiconducting <math>\text{KFe}_2\text{S}_2</math>. <i>Physical Review Letters</i>, 2019, 122, 087201.</p>	7.8	13
61	<p>Nontrivial topology in the layered Dirac nodal-line semimetal candidate <math>\text{SrZnSb}_2</math> with distorted <math>\text{Sb}</math> square nets. <i>Physical Review B</i>, 2019, 100, 080401.</p>	3.2	15
62	<p>Lattice distortion in the spin-orbital entangled state in <math>\text{RVO}_3</math> perovskites. <i>Physical Review B</i>, 2019, 100, 080401.</p>	3.2	8
64	<p>Spin-flop phase transition in the orthorhombic antiferromagnetic topological semimetal <math>\text{Cu}_{0.95}\text{MnAs}</math>. <i>Journal of Magnetism and Magnetic Materials</i>, 2019, 469, 570-573.</p>	2.3	7
65	<p>Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i>, 2019, 2019, 1065-1089.</p>	2.0	29
66	<p>Geometric and Magnetic Structures of <math>\text{K}_2\text{Re}_6</math> as an Antiferromagnetic Insulator with Ferromagnetic Spin-Canting Originated from Spin-Orbit Coupling. <i>Journal of Physical Chemistry C</i>, 2019, 123, 1645-1652.</p>	3.1	1
67	<p>Incommensurate magnetism in <math>\text{KMnS}_2</math> and prospects for tunable frustration in a triangular lattice of pseudo-1D spin chains. <i>Physical Review B</i>, 2019, 100, 080401.</p>	2.4	49
68	<p>Magnetic order in single crystals of <math>\text{Na}_3\text{Mn}_7\text{S}_{13}</math> with a honeycomb arrangement of <math>\text{MnS}_4</math> tetrahedra. <i>Physical Review Materials</i>, 2019, 3, 034401.</p>	2.4	49
69	<p>In-plane hexagonal antiferromagnet in the <math>\text{Cu-Mn-As}</math> system. <i>Physical Review Materials</i>, 2019, 3, 034401.</p>	2.4	49
70	<p>Magnetic order of <math>\text{Nd}_5\text{Pb}_3</math> single crystals. <i>Journal of Physics Condensed Matter</i>, 2018, 30, 135801.</p>	1.8	4
71	<p>A suite-level review of the neutron single-crystal diffraction instruments at Oak Ridge National Laboratory. <i>Review of Scientific Instruments</i>, 2018, 89, 092802.</p>	1.3	43
72	<p>Tuning the Néel Temperature of Hexagonal Ferrites by Structural Distortion. <i>Physical Review Letters</i>, 2018, 121, 237203.</p>	7.8	29

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73	Magnetic order in the rare-earth ferroborate $\text{CeFe}_3\text{Mn}_2\text{O}_{13}$ . Physical Review B, 2018, 98, .	3.2	4
74	Next-generation diamond cell and applications to single-crystal neutron diffraction. Review of Scientific Instruments, 2018, 89, 092902.	1.3	20
75	Anisotropic susceptibilities in the honeycomb Kitaev system $\text{YbMg}_2\text{Sb}_2$ . Physical Review B, 2018, 98, .	3.2	4
76	$\text{U}_8\text{Al}_{19}\text{Si}_6$ , A Uranium Aluminide Silicide with a Stuffed Supercell Grown from Aluminum Flux. Chemistry of Materials, 2018, 30, 3806-3812.	6.7	2
77	Multiple topologically nontrivial bands in noncentrosymmetric $\text{YSn}_2$ . Physical Review B, 2018, 98, .	3.2	4
78	The nature of spin excitations in the one-third magnetization plateau phase of $\text{Ba}_3\text{CoSb}_2\text{O}_9$ . Nature Communications, 2018, 9, 2666.	12.8	62
79	Electronic phase separation and magnetic-field-induced phenomena in molecular multiferroic $\text{Ba}_2\text{Co}_2\text{V}_2\text{O}_{10}$ . Physical Review B, 2018, 98, .	3.2	4
80	Magnetism of new metastable cobalt-nitride compounds. Nanoscale, 2018, 10, 13011-13021.	5.6	24
81	Mechanical control of crystal symmetry and superconductivity in Weyl semimetal $\text{MoTe}_2$ . Physical Review Materials, 2018, 2, .	2.1	7
82	Impact of Sn substitution on the structure and magnetism of $\text{Sr}_2\text{Mn}_2\text{O}_7$ . Physical Review Materials, 2018, 2, .	2.1	7
83	Three-dimensional magnetic interactions in quasi-two-dimensional $\text{PdAs}_2\text{O}_6$ . Journal of Physics Condensed Matter, 2017, 29, 235801.	1.8	1
84	Complex magnetic phase diagram with multistep spin-flop transitions in $\text{LaP}_2\text{O}_7$ . Physical Review B, 2017, 96, .	3.2	8
85	Canted magnetic ground state of quarter-doped manganites $\text{R}_{0.75}\text{Ca}_{0.25}\text{MnO}_3$ (R = Y, Tb, Dy, Ho, and Er). Journal of Physics Condensed Matter, 2017, 29, 065802.	1.8	3
86	Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ . Advanced Materials, 2017, 29, 1703435.	21.0	50
87	Local breaking of fourfold rotational symmetry by short-range magnetic order in heavily overdoped $\text{BaCu}_2\text{O}_7$ . Physical Review B, 2017, 96, .	3.2	6
88	Unusual interlayer quantum transport behavior caused by the zeroth Landau level in $\text{YbMnBi}_2$ . Nature Communications, 2017, 8, 646.	12.8	35
89	Neutron diffraction and studies of two polymorphs of nickel niobate $\text{NiNb}_2\text{O}_7$ . Physical Review B, 2017, 96, .	3.2	7
90	Manganese-induced magnetic symmetry breaking and its correlation with the metal-insulator transition in bilayered $\text{Sr}_3(\text{Ru}_{1-x}\text{Mnx})_2\text{O}_7$ . Physical Review B, 2017, 95, .	3.2	3

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91	Giant magnetoelectric effects achieved by tuning spin cone symmetry in Y-type hexaferrites. Nature Communications, 2017, 8, 519.	12.8	97
92	A magnetic topological semimetal $\text{Sr}_{1-y}\text{Mn}_1\text{zSb}_2$ ( $y, z \leq 0.1$ ). Nature Materials, 2017, 16, 905-910.	27.5	135
93	Improving superconductivity in $\text{BaFe}_2\text{As}_2$ -based crystals by cobalt clustering and electronic uniformity. Scientific Reports, 2017, 7, 949.	3.3	13
94	Destabilization of Magnetic Order in a Dilute Kitaev Spin Liquid Candidate. Physical Review Letters, 2017, 119, 237203.	7.8	36
95	Multiferroics: Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ (Adv. Mater. 44/2017). Advanced Materials, 2017, 29, .	21.0	5
96	Antiferromagnetism in the van der Waals layered spin-lozenge semiconductor $\text{CrTe}_3$ . Physical Review B, 2017, 95, .	3.2	44
97	Magnetic order and interactions in ferrimagnetic $\text{Mn}_3\text{Co}$ . Physical Review B, 2017, 95, .	3.2	40
98	Flux growth and characterization of Ce-substituted $\text{Nd}_2\text{B}_3$ single crystals. Journal of Magnetism and Magnetic Materials, 2017, 434, 1-9.	2.3	36
99	Magnetic order induces symmetry breaking in the single-crystalline orthorhombic $\text{CuMnAs}$ semimetal. Physical Review B, 2017, 96, .	3.2	22
100	Magnetic Frustration Driven by Itinerancy in Spinel $\text{CoV}_2\text{O}_4$ . Scientific Reports, 2017, 7, 17129.	3.3	24
101	Spectroscopic evidence for a type II Weyl semimetallic state in $\text{MoTe}_2$ . Nature Materials, 2016, 15, 1155-1160.	27.5	437
102	Spin-lattice coupling mediated multiferroicity in $\text{D}_2\text{O}$ . Physical Review B, 2016, 94, .	3.2	15
103	A Mott insulator continuously connected to iron pnictide superconductors. Nature Communications, 2016, 7, 13879.	12.8	36
104	Persistent magnetism in silver-doped $\text{BaFe}_2\text{As}_2$ crystals. Physical Review B, 2016, 94, .	3.2	3
105	Atomic-scale observation of structural and electronic orders in the layered compound $\text{RuCl}_3$ . Nature Communications, 2016, 7, 13774.	12.8	66
106	Nearly massless Dirac fermions hosted by Sb square net in $\text{BaMnSb}_2$ . Scientific Reports, 2016, 6, 30525.	3.3	75
107	Controlling Magnetic Ordering in $\text{Ca}_1-x\text{Eu}_x\text{Co}_2\text{As}_2$ by Chemical Compression. Chemistry of Materials, 2016, 28, 7459-7469.	6.7	9
108	Magnetic Precursor of the Pressure-Induced Superconductivity in Fe-Ladder Compounds. Physical Review Letters, 2016, 117, 047003.	7.8	39

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109	Tuning Magnetism of $[MnSb_4]^{9+}$ Cluster in $Yb_{14}MnSb_{11}$ through Chemical Substitutions on Yb Sites: Appearance and Disappearance of Spin Reorientation. <i>Journal of the American Chemical Society</i> , 2016, 138, 12422-12431.	13.7	41
110	$LaMn_3Ni_2Mn_2O_{12}$ : An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. <i>Chemistry of Materials</i> , 2016, 28, 8988-8996.	6.7	27
111	Structural and magnetic phase transitions in $Ca_{1-x}Mn_{0.73-x}$ electron-overdoped FeAs layers. <i>Physical Review B</i> , 2016, 93, .	3.2	5
112	Publisher's Note: Structural and magnetic phase transitions in $Ca_{1-x}Mn_{0.73-x}$ electron-overdoped FeAs layers [Phys. Rev. B <b>93</b> , 054522 (2016)]. <i>Physical Review B</i> , 2016, 93, .	3.2	5
113	Low-temperature crystal and magnetic structure of $Mn_{1-x}Co_xWO_4$ . <i>Physical Review B</i> , 2016, 93, .	3.2	5
114	Pressure effects on magnetic ground states in cobalt-doped multiferroic $Mn_{1-x}Co_xWO_4$ . <i>Physical Review B</i> , 2016, 93, .	3.2	5
115	Structural and magnetic characterization of the one-dimensional $S=5$ antiferromagnetic chain system		



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127	<p>Crystal vacancy ordering in phase-separated <math>C_{1-x}F_x</math></p> <p>Physical Review B, 2015, 92, .</p>	3.2	6
128	<p>High antiferromagnetic transition temperature of the honeycomb compound <math>SrRu_2O_6</math></p> <p>Physical Review B, 2015, 92, .</p>	3.2	37
129	<p>Mott localization in a pure stripe antiferromagnet <math>RbSr_2F_6</math></p> <p>Physical Review B, 2015, 92, .</p>	3.2	12
130	<p>Evolution of the magnetic and structural properties of <math>FeV_2O_4</math></p> <p>Physical Review B, 2015, 92, .</p>	3.2	7
131	<p>Crystal structure and magnetic properties of <math>R_2Ge_2O_7</math></p> <p>Physical Review B, 2015, 92, .</p>		



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145	Symmetry-lowering lattice distortion at the spin reorientation in MnBi single crystals. Physical Review B, 2014, 90, .	3.2	49
146	Synthesis, Crystal Structure, and Magnetic Properties of Novel Intermetallic Compounds $R_{2-x}Co_2SiC$ (R = Pr, Nd). Inorganic Chemistry, 2014, 53, 6141-6148.	4.0	9
147	Magnetic structure and spin excitations in $BaMn_2O_8$ . Physical Review B, 2014, 89, .	3.2	46
148	Magnetic structure of the chiral triangular magnet MnSb <sub>2</sub> O <sub>6</sub> . Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C387-C387.	0.1	0
149	Temperature-driven phase transformation in Y <sub>3</sub> Co: Neutron scattering and first-principles studies. Physical Review B, 2013, 88, .	3.2	6
150	Competition between the structural phase transition and superconductivity in IrPtTe <sub>2</sub> . Physical Review B, 2013, 88, .	3.2	46
151	Absence of structural transition in $IrTe_2$ . Physical Review B, 2013, 88, .	3.2	48
152	Magnetic and structural properties near the Lifshitz point in $IrTe_2$ . Physical Review B, 2013, 88, .	3.2	6
153	Origin of the phase transition in $IrTe_2$ : Structural Dy-Dy magnetic interaction and local structure bias on the complex spin and orbital ordering in $IrTe_2$ . Physical Review B, 2013, 88, .	3.2	62
154	Neutron-Diffraction Measurements of an Antiferromagnetic Semiconducting Phase in the Vicinity of the High-Temperature Superconducting State of $KFe_2O_8$ . Physical Review Letters, 2012, 109, 267003.	7.8	85
155	Competing Phases, Complex Structure, and Complementary Diffraction Studies of $R_3\hat{I}FeAl_4-xMgxTt_2$ Intermetallics (R = Y, Dy, Er, Yb; Tt = Si or Ge; x < 0.5). Chemistry of Materials, 2013, 25, 3363-3372.	6.7	9
156	Magnetic structure in the spin liquid Tb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> induced by a [111] magnetic field: Search for a magnetization plateau. Physical Review B, 2013, 88, .	3.2	27
157	Flux growth and physical properties of $MO_3$ Sb. Physical Review B, 2013, 87, .	3.2	13
158	Electric-field-controlled antiferromagnetic domains in epitaxial BiFeO <sub>3</sub> thin films probed by neutron diffraction. Physical Review B, 2013, 87, .	3.2	29
159	Neutron-Diffraction Measurements of an Antiferromagnetic Semiconducting Phase in the Vicinity of the High-Temperature Superconducting State of $KFe_2O_8$ . Physical Review Letters, 2012, 109, 267003.	7.8	85
160	Publisher's Note: Spin Reorientation in TlFe <sub>1.6</sub> Se <sub>2</sub> with Complete Vacancy Ordering [Phys. Rev. Lett. 109, 077003 (2012)]. Physical Review Letters, 2012, 109, .	7.8	1
161	Magnetic structure and spin excitations in $CoWO_4$ . Physical Review B, 2014, 89, .	3.2	38
162	Evolution of the nuclear and magnetic structures of TlFe <sub>1.6</sub> Se <sub>2</sub> with temperature. Physical Review B, 2012, 85, .	3.2	11

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163	Direct evidence of a zigzag spin-chain structure in the honeycomb lattice: A neutron and x-ray diffraction investigation of single-crystal Na $\text{IrO}_2$ . Physical Review B, 2012, 85, .	3.2	318
164	Magnetic properties of the S=12 quasisquare lattice antiferromagnet CuF <sub>2</sub> (H <sub>2</sub> O) <sub>2</sub> (pyz) (pyz=pyrazine) investigated by neutron scattering. Physical Review B, 2012, 86, .	3.2	15
165	Spin Reorientation in TlFe <sub>1.6</sub> Se <sub>2</sub> Complete Vacancy Ordering. Physical Review Letters, 2012, 109, 077003.	3.2	12
166	Magnetic structure of quasi-one-dimensional antiferromagnetic TaFe <sub>1+y</sub> Te <sub>3</sub> . Physical Review B, 2012, 85, .	3.2	11
167	Four-circle single-crystal neutron diffractometer at the High Flux Isotope Reactor. Journal of Applied Crystallography, 2011, 44, 655-658.	4.5	97
168	Spin glass and semiconducting behavior in one-dimensional BaFe <sub>2</sub> Se <sub>3</sub> ( $\delta$ ~0.2) crystals. Physical Review B, 2011, 84, .	3.2	58
169	Unusual phase transitions and magnetoelastic coupling in TlFe <sub>1.6</sub> Se <sub>2</sub> single crystals. Physical Review B, 2011, 83, .	3.2	21
170	Competing magnetic ground states in nonsuperconducting Ba <sub>1-x</sub> Tl <sub>x</sub> Fe <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2011, 83, .	3.2	69
171	Unusual phase transitions and magnetoelastic coupling in TlFe <sub>1.6</sub> Se <sub>2</sub> single crystals [Phys. Rev. B 83, 224510 (2011)]. Physical Review B, 2011, 84, .	3.2	0
172	Antiferromagnetic order and superlattice structure in nonsuperconducting and superconducting Rb <sub>1-x</sub> Fe <sub>2</sub> Se <sub>3</sub> . Physical Review B, 2011, 83, .	3.2	54
173	Field-induced magnetic structures in Tb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> at low temperatures: From spin-ice to spin-flip structures. Physical Review B, 2010, 82, .	3.2	17
174	Field evolution of the magnetic structures in Er <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> through the critical point. Physical Review B, 2010, 82, .	3.2	23
175	Magnetic order in Tb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> at high pressure: From ordered spin ice to spin liquid and antiferromagnetic order. Physical Review B, 2009, 80, .	3.2	6
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