

Yixi Su

List of Publications by Year in descending order

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153
papers

3,377
citations

147566

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h-index

182168

51
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154
all docs

154
docs citations

154
times ranked

4053
citing authors

#	ARTICLE	IF	CITATIONS
1	Higgs transition from a magnetic Coulomb liquid to a ferromagnet in Yb ₂ Ti ₂ O ₇ . Nature Communications, 2012, 3, 992.	5.8	170
2	Magnetic structure of EuFe_2As_2 by single-crystal neutron diffraction. Physical Review B, 2009, 80, .	2.1	152
3	Subsurface Dimerization in III-V Semiconductor (001) Surfaces. Physical Review Letters, 2001, 86, 3586-3589.	2.9	121
4	Antiferromagnetic ordering and structural phase transition in Ba_2AsF_6 Sn incorporated from the growth flux. Physical Review B, 2009, 79, .	1.1	102
5	As_2S_3 Physical Review B, 2009, 79, .	1.1	101
6	Low-Temperature Structure of Indium Quantum Chains on Silicon. Physical Review Letters, 2000, 85, 4916-4919.	2.9	98
7	Spiral spin-liquid and the emergence of a vortex-like state in MnSc ₂ S ₄ . Nature Physics, 2017, 13, 157-161.	6.5	88
8	Coexistence of superconductivity and ferromagnetism in P-doped EuFe_2As_2 . Physical Review B, 2014, 89, .	1.1	80
9	All-oxide-based synthetic antiferromagnets exhibiting layer-resolved magnetization reversal. Science, 2017, 357, 191-194.	6.0	73
10	Fluorine-free water-in-ionomer electrolytes for sustainable lithium-ion batteries. Nature Communications, 2018, 9, 5320.	5.8	71
11	<i>Ab initio</i> lattice dynamics simulations and inelastic neutron scattering spectra for studying phonons in BaFe_2As_2 . Physical Review B, 2009, 79, .	2.1	64
12	Neutron scattering study of the dynamics of a polymer melt under nanoscopic confinement. Journal of Chemical Physics, 2009, 131, 174901.	1.2	62
13	Using polarization analysis to separate the coherent and incoherent scattering from protein samples. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 76-82.	1.1	62
14	Structure of metal-rich (001) surfaces of III-V compound semiconductors. Physical Review B, 2001, 64, .	1.1	58
15	Magnetic order in the CaFe_2As_2 .	1.1	58

#	ARTICLE	IF	CITATIONS
19	Inelastic neutron scattering and lattice-dynamical calculations of BaFe ₂ As ₂ . Physical Review B, 2008, 78, .	1.1	54
20	Field-induced spin reorientation and giant spin-lattice coupling in EuFe_2As_2 . Physical Review B, 2010, 81, .	2.1	51
21	Critical Fluctuations and Quenched Disordered Two-Dimensional Charge Stripes in La _{5/3} Sr _{1/3} NiO ₄ . Physical Review Letters, 2000, 84, 3911-3914.	2.9	47
22	Distinguishing pairing symmetries by neutron spin resonance in superconducting NaFe ₃ As ₅ . Physical Review B, 2010, 81, .	1.1	45
23	Measurement of Anomalous Phonon Dispersion of CaFe_2As_2 Crystals Using Inelastic Neutron Scattering. Physical Review Letters, 2009, 102, 217001.	2.9	42
24	Measurement of a Double Neutron-Spin Resonance and an Anisotropic Energy Gap for Underdoped Superconducting $\text{Na}_{0.985}\text{CoFe}_2\text{As}_2$. Physical Review Letters, 2013, 111, 207002.	2.9	40
25	Inelastic Neutron Scattering of $\text{Na}_{0.784314}\text{Co}(\text{CO})\text{TjETQq1}$. Physical Review B, 2016, 93, 104407.	1.5	39
26	X-ray scattering studies of 2H-NbSe ₂ , a superconductor and charge density wave material, under high external magnetic fields. Journal of Physics Condensed Matter, 2000, 12, 5361-5370.	0.7	36
27	Magnetic structure of NbFe_3 . Physical Review B, 2000, 62, 104407.	1.1	36
28	Field-induced self-assembly of iron oxide nanoparticles investigated using small-angle neutron scattering. Nanoscale, 2016, 8, 18541-18550.	2.8	36
29	Magnetic structure of EuFe_2As_2 . Physical Review B, 2010, 81, 104407.	1.1	35
30	Magnetic structure of the EuFe_2As_2 in superconducting state. Physical Review B, 2010, 81, 104407.		

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37	Isotropic anisotropy in hole-doped superconducting $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. <i>Physical Review B</i> , 2018, 97, 020407.	1.1	27
38	Cation distribution and magnetic properties of Zn-substituted CoCr_2O_4 nanoparticles. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	27
39	Anisotropic neutron spin resonance in underdoped superconducting $\text{NaFe}_{1-x}\text{Co}_x\text{As}$. <i>Physical Review B</i> , 2014, 90, .	2.9	25
40	Non-stoichiometry and the magnetic structure of $\text{Sr}_2\text{CrO}_3\text{FeAs}$. <i>Europhysics Letters</i> , 2010, 89, 37006.	0.7	25
41	Solitary Magnons in the $\text{Sr}_5\text{Ca}_2\text{Fe}_2\text{O}_{12}$. <i>Physical Review Letters</i> , 2016, 117, 017201.	2.9	25
42	Crystal and magnetic structure of single-crystal $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x \approx 1/8$). <i>European Physical Journal B</i> , 2009, 67, 149-157.	0.6	24
43	Magnetic correlations in the spin ice $\text{Ho}_2\text{Ti}_2\text{O}_7$ as revealed by neutron polarization analysis. <i>Physical Review B</i> , 2010, 82, .	1.1	24
44	Magnetic lattice dynamics of the oxygen-free FeAs pnictides: how sensitive are phonons to magnetic ordering?. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 315701.	0.7	24
45	Approaching the true ground state of frustrated $\text{A}_2\text{B}_2\text{O}_7$ -site spinels: A combined magnetization and polarized neutron scattering study. <i>Physical Review B</i> , 2014, 89, .	1.1	24
46	Strain release and twin structure in $\text{GdBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films on $(001)\text{SrTiO}_3$ and NdGaO_3 . <i>Physical Review B</i> , 2002, 65, .	1.1	23
47	Phonon dynamics in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$ from neutron scattering and lattice-dynamical calculations. <i>Physical Review B</i> , 2008, 78, .	1.1	23
48	Enhancement of Curie- and spin-spiral temperatures with doping Fe in multiferroic CoCr_2O_4 nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 488, 165378.	1.0	23
49	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in SrCo_2As_2 . <i>Physical Review Letters</i> , 2019, 122, 117204.	2.9	23
50	Possible magnetic order and suppression of superconductivity by V doping in Sr_2VO_4 . <i>Physical Review B</i> , 2010, 82, .	1.1	22
51			

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55	Effects of magnetic doping and temperature dependence of phonon dynamics in $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$ compounds ($x=0, 0.06, \text{ and } 0.12$). <i>Physical Review B</i> , 2009, 79, .	1.1	20
56	Neutron diffraction study of phase transitions and thermal expansion of SrFeAsF . <i>Physical Review B</i> , 2010, 81, .	1.1	20
57	Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites $\langle \mathbf{L}_i \mathbf{M}_i \rangle$. <i>Physical Review B</i> , 2010, 81, .	1.1	20
58	Magnetic and structural transitions in $\text{La}_{1-x}\text{Mn}_x\text{O}_3$ crystals. <i>Physical Review B</i> , 2015, 91, .	1.1	17
59	Phonon spectra in CaFe_2As_2 and $\text{Ca}_{0.6}\text{Na}_{0.4}\text{Fe}_2\text{As}_2$: Measurement of the pressure and temperature dependence and comparison with ab initio and shell model calculations. <i>Physical Review B</i> , 2009, 79, .	1.1	17
60	Antiferromagnetic order in MnO spherical nanoparticles. <i>Physical Review B</i> , 2011, 83, .	1.1	17
61	Spin-phonon coupling in KFe_2As_2 . <i>Physical Review B</i> , 2011, 83, .	1.1	17
62	Spin anisotropy due to spin-orbit coupling in optimally hole-doped BaFe_2As_2 . <i>Physical Review B</i> , 2016, 94, .	1.1	16
63	Anomalous in-plane magnetoresistance in a EuFe_2As_2 single crystal: Evidence of strong spin-charge-lattice coupling. <i>Physical Review B</i> , 2012, 85, .	1.1	15
64	Correlation between structural and magnetic properties of $\text{La}_{7/8}\text{Sr}_{1/8}\text{Mn}_2\text{O}_7$ with controlled nonstoichiometry. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 016003.	0.7	15
65	Antiferromagnetic spin correlations in MnO nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3333-3336.	1.0	15
66	Size-dependent magnetic transitions in $\text{CoFe}_{0.1}\text{Cr}_{1.9}\text{O}_4$ nanoparticles studied by magnetic and neutron-polarization analysis. <i>Nanotechnology</i> , 2016, 27, 175702.	1.3	15
67	Uniaxial and hydrostatic pressure effects in RuCl_3 single crystals via thermal-expansion measurements. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 385702.	0.7	15
68	Spiral magnetic ordering of the Eu moments in EuNi_2Mn_2 . <i>Physical Review B</i> , 2019, 99, .	1.1	15
69	Anisotropic exchange Hamiltonian, magnetic phase diagram, and domain inversion of Nd_2O_7 . <i>Physical Review B</i> , 2019, 99, .	1.1	15
70	Magnetic structures, spin-flop transition, and coupling of Eu and Mn magnetism in the Dirac semimetal EuMnBi_2 . <i>Physical Review Research</i> , 2020, 2, .	1.3	15
71	Neutron-diffraction study of structural transition and magnetic order in orthorhombic and rhombohedral $\text{La}_{7/8}\text{Sr}_{1/8}\text{Mn}_2\text{O}_7$. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 176226.	0.7	14
72	Pressure dependence of phonon modes across the tetragonal to collapsed-tetragonal phase transition in CaFe_2As_2 . <i>Physical Review B</i> , 2010, 81, .	1.1	14

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73	Magnetic excitations in the ground state of Yb ₂ Ti ₂ O ₇ . Physical Review B, 2017, 96, .	1.1	14
74	Interplay of Dzyaloshinskii-Moriya and Kitaev interactions for magnonic properties of Heisenberg-Kitaev honeycomb ferromagnets. Physical Review B, 2021, 103, .	1.1	14
75	Charge ordering and the related structural phase transition in single-crystal(Bi _{0.24} Ca _{0.76})MnO ₃ . Physical Review B, 1999, 59, 11687-11692.	1.1	13
76	Structural transitions and relaxation processes during the epitaxial growth of ultrathin CaF ₂ /Si(111). Physical Review B, 2010, 82, .	1.1	13
77	Diffuse neutron scattering study of magnetic correlations in half-doped La _{0.5} Physical Review B, 2010, 81, .	1.1	13
78	An approach to the magnetic ground state of the molecular magnet {Mo ₇₂ Fe ₃₀ }. New Journal of Physics, 2010, 12, 083044.	1.2	12
79	Weak magnetism and the Mott state of vanadium in superconducting SrVO ₂ . Physical Review B, 2013, 88, .	1.1	12
80	Magnetic structures of the Eu and Cr moments in EuCr ₂ As ₂ . Physical Review B, 2016, 94, .	1.1	12
81	Neutron diffraction study. Physical Review B, 2016, 94, .	1.1	12
82	Magnetic Field Induced Quantum Spin Liquid in the Two Coupled Trilium Lattices of K ₂ VO ₂ F ₂ . Physical Review B, 2017, 95, .	1.1	12

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91	Intermultiplet transitions and magnetic long-range order in Sm-based pyrochlores. Physical Review B, 2019, 99, .	1.1	9
92	Magnetic ordering in the Ising antiferromagnetic pyrochlore Nd ₂ ScNbO ₇ . Journal of Physics Condensed Matter, 2021, 33, 245802.	0.7	9
93	Magnetization distribution in the tetragonal phase of $BaFe_2O_7$. Physical Review B, 2010, 82, .	1.1	8
94	Spin-wave and electromagnon dispersions in multiferroic MnWO ₄ as observed by neutron spectroscopy: Isotropic Heisenberg exchange versus anisotropic Dzyaloshinskii-Moriya interaction. Physical Review B, 2016, 93, .	1.1	8
95	Honeycomb-lattice antiferromagnet Mn ₂ V ₂ O ₇ : a temperature-dependent x-ray diffraction, neutron diffraction and ESR study. Materials Research Express, 2017, 4, 046101.	0.8	8
96	Magnetic properties and spin structure of MnO single crystal and powder. Journal of Physics: Conference Series, 2017, 862, 012027.	0.3	8
97	In-plane uniaxial pressure-induced out-of-plane antiferromagnetic moment and critical fluctuations in BaFe ₂ As ₂ . Nature Communications, 2020, 11, 5728.	5.8	8
98	Physical properties, crystal and magnetic structure of layered Fe _{1.11} Te _{1-x} Se _x superconductors. European Physical Journal B, 2011, 82, 113-121.	0.6	7
99	Magnetic polarization of Ir in underdoped nonsuperconducting Eu(Fe _{0.94} Ir _{0.06}) ₂ As ₂ . Physical Review B, 2016, 93, .	1.1	7
100	SANS study of vortex lattice structural transition in optimally doped (Ba _{1-x} K _x)Fe ₂ As ₂ . Journal of Physics Condensed Matter, 2016, 28, 425701.	0.7	7
101	Universal critical behavior in the ferromagnetic superconductor Eu(Fe _{0.75} Ru _{0.25}) ₂ As ₂ . Physical Review B, 2019, 100, .	1.1	7
102	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	1.1	7
103	Magnetic anisotropic energy gap and low-energy spin wave excitation in the antiferromagnetic block phase of KFe_2O_7 . Physical Review B, 2017, 96, .	1.1	6
104	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped NaFe _{0.9785} Co _{0.0215} As. Physical Review B, 2017, 96, .	1.1	6
105	Temperature and polarization dependence of low-energy magnetic fluctuations in nearly optimally doped NaFe _{0.9785} Co _{0.0215} As. Physical Review B, 2017, 96, .	1.1	6
106	Spin-isotropic continuum of spin excitations in antiferromagnetically ordered Fe _{1.07} Te. Physical Review B, 2018, 97, .	1.1	6
107	Coexistence of Eu antiferromagnetism and pressure-induced superconductivity in single-crystal EuFe ₂ As ₂ . Physical Review B, 2019, 100, .	1.1	6
108	Double-peak specific heat and spin freezing in the spin-2 triangular lattice antiferromagnet $FeAl$. Physical Review B, 2019, 99, .	1.1	6

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109	Absence of moment fragmentation in the mixed Bi_2Te_3 -site pyrochlore Nd_2Te_3 . <i>Physical Review B</i> , 2021, 103.	1.1	6
110	Ge(001)-matrix-Pb δ matrix-Pb: low-temperature two-dimensional phase transition. <i>New Journal of Physics</i> , 2001, 3, 13-13.	1.2	5
111	Structure and component dynamics in binary mixtures of poly(2-(dimethylamino)ethyl methacrylate) with water and tetrahydrofuran: A diffraction, calorimetric, and dielectric spectroscopy study. <i>Journal of Chemical Physics</i> , 2016, 144, 154903.	1.2	5
112	Dispersible cobalt chromite nanoparticles: facile synthesis and size driven collapse of magnetism. <i>RSC Advances</i> , 2016, 6, 107659-107668.	1.7	5
113	Magnetism of monomer MnO and heterodimer FePt@MnO nanoparticles. <i>Physical Review B</i> , 2017, 95, .	1.1	5
114	Spin reorientation of the Fe moments in $\text{Eu}_{1-x}\text{Fe}_x$: Evidence for strong interplay of Eu and Fe magnetism. <i>Physical Review B</i> , 2019, 99, .	1.1	5
115	Disorder-induced broadening of the spin waves in the triangular-lattice quantum spin liquid candidate YbZnGaO_4 . <i>Physical Review B</i> , 2021, 104, .	1.1	5
116	Magnetic correlations in pyrochlore spin ice as probed by polarized neutron scattering. <i>Journal of Physics: Conference Series</i> , 2010, 211, 012013.	0.3	4
117	EuFe_2As_2 : Magnetic Structure and Local Charge Distribution Anisotropies as Seen by Resonant X-ray Scattering. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 705-709.	0.8	4
118	Inverse order-disorder transition of charge stripes. <i>Physical Review B</i> , 2015, 92, .	1.1	4
119	Dynamics of tetrahydrofuran as minority component in a mixture with poly(2-(dimethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overfoc Physics, 2015, 143, 094505.	1.2	4
120	Revealing magnetic ground state of a layered cathode material by muon spin relaxation and neutron scattering experiments. <i>Applied Physics Letters</i> , 2019, 114, 203901.	1.5	4
121	Covalent-bond stabilization of the Si(111)-Pb structure. <i>Surface Science</i> , 2001, 486, L495-L501.	0.8	3
122	Neutron polarization analysis on the multiferroic TbMn_2O_5 . <i>Physica B: Condensed Matter</i> , 2009, 404, 2517-2519.	1.3	3
123	Anomalous phonons in CaFe_2As_2 explored by inelastic neutron scattering. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012008.	0.3	3
124	Soft X-ray resonant scattering study of single-crystal $\text{LaSr}_2\text{Mn}_2\text{O}_7$. <i>European Physical Journal B</i> , 2010, 74, 457-461.	0.6	3
125	Evidence of Spin Resonance Signal in Oxygen Free Superconducting $\text{CaFe}_{0.88}\text{Co}_{0.12}\text{AsF}$: An Inelastic Neutron Scattering Study. <i>Journal of the Neutron Scattering Study of Magnetic</i> 	0.7	3
126	$\text{CaFe}_{0.88}\text{Co}_{0.12}\text{AsF}$: An Inelastic Neutron Scattering Study. <i>Physica B</i>	1.3	3

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127	Ni-Cr-Al Alloy for neutron scattering at high pressures. <i>Materials Science and Technology</i> , 2020, 36, 949-954.	0.8	3
128	Distinct magnetic ground states of O_6 determined by. <i>Physical Review B</i> , 2021, 103, .	1.1	3
129	Soliton-Mediated Magnetic Reversal in an All-Oxide-Based Synthetic Antiferromagnetic Superlattice. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20788-20795.	4.0	3
130	Neutron scattering study of commensurate magnetic ordering in single crystal CeSb ₂ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 405605.	0.7	3
131	Evolution from helical to collinear ferromagnetic order of the Eu ²⁺ spins in RbEu(Fe _{1-x} Ni _x) ₄ As ₄ . <i>Physical Review Research</i> , 2022, 4, .	1.3	3
132	Local structure of NiTi nanocrystals studied by EXAFS and XRD. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 520-521.	1.0	2
133	Re-examination of charge and orbital ordering in lightly doped La ^{1-x} Sr _x MnO ₃ by X-ray scattering. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E291-E292.	1.0	2
134	Probing the (001) surface of magnetite crystals by second harmonic generation. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 396006.	0.7	2
135	The temperature evolution of the magnetic correlations in pure and diluted spin ice Ho _{2-x} Y _x Ti ₂ O ₇ . <i>Physica B: Condensed Matter</i> , 2011, 406, 2393-2396.	1.3	2
136	Spin reorientation in FeCrAs revealed by single-crystal neutron diffraction. <i>Physical Review B</i> , 2019, 100, .	1.1	2
137	Reentrant Spin Glass and Large Coercive Field Observed in a Spin Integer Dimerized Honeycomb Lattice. <i>Advanced Functional Materials</i> , 2021, 31, .	7.8	2
138	Clamp cells for high pressure neutron scattering at low temperatures and high magnetic fields at Heinz Maier-Leibnitz Zentrum (MLZ). <i>High Pressure Research</i> , 2021, 41, 88-96.	0.4	2
139	Comparison of the temperature- and pressure-dependent behavior of the crystal structure of CrAs. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 594-604.	0.5	2
140	Structural Transformations and Magnetic Properties of Mixed Spinel-type NiCr _{1.7} Fe _{0.3} O ₄ Nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100284.	0.7	2
141	Study of local structure of YNi ₂ B ₂ C superconductor by EXAFS. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 725-726.	0.6	1
142	Magnetization distribution and orbital moment in the nonsuperconducting chalcogenide compound K _{0.8} Fe _{1.6} Se ₂ . <i>Physical Review B</i> , 2013, 88, .	1.1	1
143	Non-Fermi-liquid to Fermi-liquid transports in iron-pnictide Ba(Fe _{1-x} Cox) ₂ As ₂ and the electronic correlation strength in superconductors newly probed by the normal-state Hall angle. <i>New Journal of Physics</i> , 2017, 19, 033039.	1.2	1
144	SYNCHROTRON X-RAY SCATTERING STUDIES OF CHARGE AND SPIN STRIPES IN MANGANITES. , 2000, , .		1

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145	Bulk domain Meissner state in the ferromagnetic superconductor $\text{EuFe}_{1-x}\text{Mn}_x\text{P}_2$: Consequence of com. Physical Review B, 2022, 105, .	1.1	1
146	Study of local structure changes of HBCCO superconductor with EXAFS. Physica C: Superconductivity and Its Applications, 1997, 282-287, 913-914.	0.6	0
147	X-ray scattering studies of charge stripes in manganites and nickelates. , 1999, , .		0
148	High-Pressure Structural Phase Transitions in FeAs Based Compounds at Ambient and Low Temperatures. , 2011, , .		0
149	Pressure-driven Phase Transition in CaFeAsF at 40 and 300 K. Journal of Physics: Conference Series, 2012, 377, 012034.	0.3	0
150	Focus on high-temperature superconductors. Neutron News, 2015, 26, 36-39.	0.1	0
151	Simulation and optimization of a new focusing polarizing bender for the diffuse neutrons scattering spectrometer DNS at MLZ. Journal of Physics: Conference Series, 2017, 862, 012018.	0.3	0
152	Physical properties and magnetic structure of a layered antiferromagnet $\text{PrPd}_{0.82}\text{Bi}_2$. Chinese Physics B, 2020, 29, 067502.	0.7	0
153	Topology Meets Correlation: Neutron Scattering from Correlated Topological Materials. Neutron News, 0, , 1-3.	0.1	0