

Matthew Stone

List of Publications by Year in descending order

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236
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236
times ranked

8503
citing authors

#	ARTICLE	IF	CITATIONS
1	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl ₃ . 2D Materials, 2022, 9, 015006.	2.0	16
2	A super-resolution technique to analyze single-crystal inelastic neutron scattering measurements using direct-geometry chopper spectrometers. Review of Scientific Instruments, 2022, 93, 025101.	0.6	5
3	Spin-exchange Hamiltonian and topological degeneracies in elemental gadolinium. Physical Review B, 2022, 105, .	1.1	6
4	Dynamic parallel spin stripes from the 1/8 anomaly to the end of superconductivity in $\text{La}_{1-x}\text{Pr}_x\text{NiO}_2$. Physical Review Research, 2022, 4, .	1.2	2
5	Dirac Magnons, Nodal Lines, and Nodal Plane in Elemental Gadolinium. Physical Review Letters, 2022, 128, 097201.	2.9	13
6	Damped Dirac magnon in the metallic kagome antiferromagnet FeSn. Physical Review B, 2022, 105, .	1.1	15
7	Anticollinear order and degeneracy lifting in square lattice antiferromagnet LaSrCrO_4 . Physical Review B, 2022, 105, .	1.1	15
8	Spiral Spin Liquid on a Honeycomb Lattice. Physical Review Letters, 2022, 128, .	2.9	15
9	CHES: The future direct geometry spectrometer at the second target station. Review of Scientific Instruments, 2022, 93, .	0.6	9
10	Electronic structure, magnetic properties, and pairing tendencies of the copper-based honeycomb lattice $\text{Na}_2\text{Mn}_2\text{O}_7$. Physical Review B, 2022, 105, honeycomb and triangular layers of MnO_2 .	1.1	9
11	$\text{Mn}_3\text{Si}_2\text{Te}_6$. Physical Review B, 2022, 105, .	1.1	9
12	Frustration-induced diffusive scattering anomaly and dimension change in FeGe_2 . Physical Review B, 2022, 106, .	1.1	9
13	Anisotropic magnon damping by zero-temperature quantum fluctuations in ferromagnetic CrGeTe_3 . Nature Communications, 2022, 13, .	5.8	10
14	Hybridized quadrupolar excitations in the spin-anisotropic frustrated magnet FeI_2 . Nature Physics, 2021, 17, 467-472.	6.5	30
15	Van Hove singularity in the magnon spectrum of the antiferromagnetic quantum honeycomb lattice. Nature Communications, 2021, 12, 171.	5.8	24
16	Neutron scattering investigation of proposed Kosterlitz-Thouless transitions in the triangular-lattice Ising antiferromagnet TmMgGaO_4 . Physical Review B, 2021, 103, .	1.1	16
17	Detection of Kardar-Parisi-Zhang hydrodynamics in a quantum Heisenberg spin-1/2 chain. Nature Physics, 2021, 17, 726-730.	6.5	60
18	A Catastrophic Charge Density Wave in BaFe_2Al_9 . Chemistry of Materials, 2021, 33, 2855-2863.	3.2	9

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37	Spin dynamics in the skyrmion-host lacunar spinel GaV_4S_8 . Physical Review B, 2021, 104, .	1.1	3
38	Possible observation of Kondo screening cloud in $\text{Yb}_{14}\text{MnSb}_{11}$. Philosophical Magazine, 2020, 100, 1204-1210.	0.7	1
39	Spin-orbit exciton in a honeycomb lattice magnet: Revealing a link between magnetism in CoTiO_3 - and d-f electron systems. Physical Review B, 2020, 102, .	1.1	13
40	Unconventional Hund metal in a weak itinerant ferromagnet. Nature Communications, 2020, 11, 3076.	5.8	12
41	Antichiral spin order, its soft modes, and their hybridization with phonons in the topological semimetal Mn_3P_2 . Physical Review B, 2020, 102, .	1.1	29
42	Effect of Hydration on the Molecular Dynamics of Hydroxychloroquine Sulfate. ACS Omega, 2020, 5, 21231-21240.	1.6	8
43	Magnetism of Nd_2O_3 single crystals near the Néel temperature. Physical Review B, 2020, 102, .	1.1	0
44	Orbital selective spin waves in detwinned NaFeAs . Physical Review B, 2020, 102, .	1.1	8
45	Weakly coupled alternating $\text{S}=\text{O}$ chains in the distorted honeycomb lattice compound $\text{Na}_2\text{S}_2\text{O}_7$. Physical Review B, 2020, 102, .	1.1	11
46	Hydration-Induced Disorder Lowers the Energy Barriers for Methyl Rotation in Drug Molecules. Journal of Physical Chemistry Letters, 2020, 11, 10256-10261.	2.1	7
47	Magnetic excitations affected by spin-lattice coupling in the triangular lattice antiferromagnet Ag_2S . Physical Review B, 2020, 102, .	1.1	1
48	Quantum Versus Classical Spin Fragmentation in Dipolar Kagome Ice $\text{Ho}_3\text{Mg}_2\text{Sb}_3\text{O}_{14}$. Physical Review X, 2020, 10, .	2.8	16
49	Three-Magnon Bound State in the Quasi-One-Dimensional Antiferromagnet NaMnO_2 . Physical Review Letters, 2020, 124, 187202.	2.9	11
50	Topological magnon bands in a room-temperature kagome magnet. Physical Review B, 2020, 101, .	1.1	32
51	Dirac Magnons in a Honeycomb Lattice Quantum Magnet CoTiO_3 . Physical Review X, 2020, 10, .	2.8	60
52	Vacancy-driven variations in the phonon density of states of fast neutron irradiated nuclear graphite. Carbon, 2020, 168, 42-54.	5.4	13
53	Octupolar versus Néel Order in Cubic Double-Perovskites. Physical Review Letters, 2020, 124, 087206.	2.9	33
54	Quantification of localising magnetism in rare-earth pyrogermanates Er_2O_7 and Yb_2O_7 . Physical Review B, 2020, 101, .	1.1	8

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55	Signatures of coupling between spin waves and Dirac fermions in YbMnBi ₂ . Physical Review B, 2020, 101, .	1.1	16
56	Low-energy magnons in the chiral ferrimagnet Cu_2OSeO_3 : A coarse-grained approach. Physical Review B, 2020, 101, .	1.1	6
57	Magnetic anisotropy in ferromagnetic Cr_3OCl . Physical Review B, 2020, 101, .	1.1	1
58	Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, .	3.8	57
59	3D scanning and 3D printing AlSi10Mg single crystal mounts for neutron scattering. Review of Scientific Instruments, 2020, 91, 053902.	0.6	7
60	Magnetic order and fluctuations in the quasi-two-dimensional planar magnet $\text{Sr}(\text{Co}_{1-x}\text{Ni}_x)_2\text{As}_2$. Physical Review B, 2020, 102, .	1.1	1
61	Partially disordered state with short-range spin correlation in classical triangular antiferromagnet $\text{Ag}_2\text{Mn}_2\text{O}_5$. Physical Review Research, 2020, 2, .	1.3	2
62	Recent developments of MCViNE and its applications at SNS. Journal of Physics Communications, 2019, 3, 085005.	0.5	27
63	Experimental signatures of a three-dimensional quantum spin liquid in effective spin-1/2 $\text{Ce}_2\text{Zr}_2\text{O}_7$ pyrochlore. Nature Physics, 2019, 15, 1052-1057.	6.5	92
64	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric $\text{Sr}_{1-x}\text{Mg}_x\text{M}_2\text{O}_7$.		

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73	Super-resolution energy spectra from neutron direct-geometry spectrometers. Review of Scientific Instruments, 2019, 90, 105109.	0.6	9
74	Field-induced double dome and Bose-Einstein condensation in the crossing quantum spin chain system <math display="block">\text{AgVOAsO}_4 Physical Review B, 2019, 100, .	1.1	14
75	Crystal field splitting, local anisotropy, and low-energy excitations in the quantum magnet <math display="block">\text{YbCl}_3 Physical Review B, 2019, 100, .	1.1	26
76	Amplitude modes in three-dimensional spin dimers away from quantum critical point. Physical Review Research, 2019, 1, .	1.3	7
77	Frustrated magnetism on Nd-based Shastry-Sutherland (SS) lattices. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, a226-a226.	0.0	0
78	Coherent band excitations in CePd_3 : A comparison of neutron scattering and ab initio theory. Science, 2018, 359, 186-191.	6.0	36
79	Magnetic excitations of the quantum spin chain in Cu_2Sr_3 Physical Review B, 2018, 97, .	1.1	8
80	Heisenberg model analysis on inelastic powder neutron scattering data using parent and K doped BaMn_2As_2 samples. Physica B: Condensed Matter, 2018, 551, 51-59.	1.3	1
81	Neutron scattering investigation of rhenium orbital ordering in the double perovskite Ca_2ReO_6 Physical Review B, 2018, 98, .	1.1	4
82	Topological Spin Excitations in Honeycomb Ferromagnet CrI_3 Physical Review X, 2018, 8, .	2.8	188
83	Origin of magnetic excitation gap in double perovskite Sr_2CuO_7 Physical Review B, 2018, 98, .	1.1	15
84	Low-energy antiferromagnetic spin fluctuations limit the coherent superconducting gap in cuprates. Physical Review B, 2018, 98, .	1.1	21
85	Spin-gap and two-dimensional magnetic excitations in Sr_2CuO_7 Physical Review B, 2018, 98, .	1.1	16
86	Spin gaps in the ordered states of La_2O_7 Physical Review B, 2018, 98, .	1.1	8
87	Dipolar-octupolar Ising antiferromagnetism in $\text{Sm}_2\text{Ru}_2\text{O}_7$ Physical Review B, 2018, 98, .	1.1	19
88	Evolution of Magnetic Double Helix and Quantum Criticality near a Dome of Superconductivity in CrAs. Physical Review X, 2018, 8, .	2.8	20
89	Neutron spin resonance as a probe of Fermi surface nesting and superconducting gap symmetry in $\text{Ba}_{0.67}\text{K}_{0.33}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2018, 98, .	1.1	10
90	Magnetoelastically induced vibronic bound state in the spin-ice pyrochlore Ho_2O_7 Physical Review B, 2018, 98, .	1.1	20

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91	Amplitude mode in the planar triangular antiferromagnet Na _{0.9} MnO ₂ . Nature Communications, 2018, 9, 2188.	5.8	13
92	Crystal field excitations from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Yb</mml:mi></mml:mrow></mml:msup><mml:mrow><mml:mi>at</mml:mi></mml:mrow></mml:math> defective sites in highly stuffed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">O</mml:mi></mml:math> Physical Review B, 2018, 97, .	1.1	6
93	Temperature dependence of phonons in FeGe ₂ . Physical Review Materials, 2018, 2, .	0.9	9
94	Physical properties of the trigonal binary compound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">O</mml:mi></mml:math> Physical Review Materials, 2018, 2, .	0.9	9
95	Continuous excitations of the triangular-lattice quantum spin liquid YbMgGaO ₄ . Nature Physics, 2017, 13, 117-122.	6.5	276
96	Neutron scattering in the proximate quantum spin liquid $\hat{I}\pm$ -RuCl ₃ . Science, 2017, 356, 1055-1059.	6.0	499
97	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	6.5	83
98	Hidden order signatures in the antiferromagnetic phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>U</mml:mi></mml:mrow></mml:math> mathvariant="normal">U</mml:mi></mml:math> Physical Review B, 2017, 95, .	1.1	10
99	Design and operating characteristic of a vacuum furnace for time-of-flight inelastic neutron scattering measurements. Review of Scientific Instruments, 2017, 88, 105116.	0.6	13
100	Spin wave damping arising from phase coexistence below <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi></mml:msub></mml:math> in colossal magnetoresistive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">La</mml:mi></mml:math> Physical Review B, 2017, 96, .	1.1	9
101	Effective One-Dimensional Coupling in the Highly Frustrated Square-Lattice Itinerant Magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CaCo</mml:mi></mml:msub></mml:math> mathvariant="normal">CaCo</mml:mi></mml:math> Physical Review Letters, 2017, 119, 147201.	2.9	25
102	Evidence for the confinement of magnetic monopoles in quantum spin ice. Journal of Physics Condensed Matter, 2017, 29, 45LT01.	0.7	9
103	Excitations and magnetization density distribution in the dilute ferromagnetic semiconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">Yb</mml:mi></mml:math>	1.1	5
104	Non-Fermi-surface nesting driven commensurate magnetic ordering in Fe-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>S</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">S</mml:mi></mml:math> Physical Review B, 2017, 95, .	1.1	4
105	Suppression of the antiferromagnetic order when approaching the superconducting state in a phase-separated crystal of KxFe ₂ â [~] ySe ₂ . Physical Review B, 2017, 96, .	1.1	2
106	Single-ion properties of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>S</mml:mi></mml:msub></mml:math> antiferromagnetic pyrochlores<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mfrac><mml:mi>1</mml:mi></mml:mfrac></mml:math> mathvariant="normal">1</mml:mi></mml:math>	1.1	42
107	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CuRh</mml:mi></mml:msub></mml:mrow></mml:math> mathvariant="normal">CuRh</mml:mi></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CoRh</mml:mi></mml:msub></mml:math> mathvariant="normal">CoRh</mml:mi></mml:math> Physical Review B, 2017, 96, .	1.1	29
108	Characterization of plastic and boron carbide additive manufactured neutron collimators. Review of Scientific Instruments, 2017, 88, 123102.	0.6	17

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109	Destabilization of Magnetic Order in a Dilute Kitaev Spin Liquid Candidate. Physical Review Letters, 2017, 119, 237203.	2.9	36
110	Combining microscopic and macroscopic probes to untangle the single-ion anisotropy and exchange energies in an $S=1$ quantum antiferromagnet. Physical Review B, 2017, 95, .	1.1	15
111	Spin excitations and the Fermi surface of superconducting FeS. Npj Quantum Materials, 2017, 2, .	1.8	14
112	Robust antiferromagnetic spin waves across the metal-insulator transition in hole-doped BaMn_2O_7 . Physical Review B, 2017, 95, .	1.1	9
113	Spin pseudogap in the $S=1$ chain material $\text{Sr}_2\text{V}_2\text{O}_7$ with impurities. Physical Review B, 2017, 95, .	1.1	9
114	Field-induced reentrant magnetoelectric phase in LiNiPO_4 . Physical Review B, 2017, 95, .	1.1	9
115	molecular magnetism in the mixed-valence antiferromagnets $\text{Ba}_3\text{Mg}_2\text{O}_{10}$. Physical Review B, 2017, 95, .	1.1	9
116	Low-energy magnon dynamics and magneto-optics of the skyrmionic Mott insulator Cu_2OSeO_3 . Physical Review B, 2017, 95, .	1.1	9
117	Frustrated ground state in the metallic Ising antiferromagnet $\text{Nd}_2\text{Ni}_2\text{In}$. Physical Review Materials, 2017, 1, .	0.9	3
118	Growth and structural characterization of large superconducting crystals of $\text{La}_{2-x}\text{Ca}_x\text{Cu}_2\text{O}_6$. Physical Review Materials, 2017, 1, .	0.9	2
119	Spin-orbit coupling control of anisotropy, ground state and frustration in $5d^2$ $\text{Sr}_2\text{MgOsO}_6$. Scientific Reports, 2016, 6, 32462.	1.6	25
120	Proximate Kitaev quantum spin liquid behaviour in a honeycomb magnet. Nature Materials, 2016, 15, 733-740.	13.3	762
121	Thermally Driven Electronic Topological Transition in FeTi. Physical Review Letters, 2016, 117, 076402.	2.9	3
122	Light atom quantum oscillations in UC and US. Physical Review B, 2016, 93, .	1.1	5
123	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor La_2CuO_4 . Physical Review B, 2016, 93, .	1.1	8
124	XY antiferromagnetic ground state in the effective $S=1$ Yb_2O_7 . Physical Review B, 2016, 93, .	1.1	8
125	Electron doping evolution of the magnetic excitations in NaFe_3As_5 . Physical Review B, 2016, 93, .	1.1	8
126	Quasi-two-dimensional spin and phonon excitations in $\text{La}_{1.965}\text{Ba}_{0.035}\text{CuO}_4$. Physical Review B, 2015, 91, .	1.1	11

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127	Influence of interstitial Mn on magnetism in the room-temperature ferromagnet Mn_2P . Physical Review B, 2015, 91, .	1.9	19
128	Magnetic correlations in the quasi-two-dimensional semiconducting ferromagnet CrSiTe_3 . Physical Review B, 2015, 92, .	1.1	14
129	Extracting source parameters from beam monitors on a chopper spectrometer. EPJ Web of Conferences, 2015, 83, 03001.	0.1	8
130	The ARCS radial collimator. EPJ Web of Conferences, 2015, 83, 03014.	0.1	7
131	Magnetic Structure and Exchange Interactions in Quasi-One-Dimensional $\text{MnCl}_2(\text{urea})_2$. Inorganic Chemistry, 2015, 54, 11897-11905.	1.9	20
132	Enhanced spin-phonon-electronic coupling in a 5d oxide. Nature Communications, 2015, 6, 8916.	5.8	45
133	Interaction Driven Subgap Spin Exciton in the Kondo Insulator SmB_6 . Physical Review Letters, 2015, 114, 036401.	2.9	83
134	Strong competition between orbital ordering and itinerancy in a frustrated spinel vanadate. Physical Review B, 2015, 91, .	1.1	22
135	Field-induced spin density wave and spiral phases in a layered antiferromagnet. Physical Review B, 2015, 92, .	1.1	1
136	Block Magnetic Excitations in the Orbitally Selective Mott Insulator BaFe_2Se_6 . Physical Review Letters, 2015, 115, 047401.	2.9	56
137	Coexistence of ferromagnetism and superconductivity in CeO_FBiS_2 . Physical Review B, 2014, 90, .	0.3	1
138	Magnons and continua in a magnetized and dimerized spin-1/2 chain. Physical Review B, 2014, 90, .	1.1	8
139	Structure and dynamics of cadmium telluride studied by x-ray and inelastic neutron scattering. Applied Physics Letters, 2014, 105, 102101.	1.5	1
140	Phonon spectrum of SrFe_2As_2 determined using multizone phonon refinement. Physical Review B, 2014, 89, .	1.1	10
141	Unified magnetism within the coherence volume of superconducting $\text{Fe}_x\text{Te}_{1-x}\hat{I}$. Physical Review B, 2014, 90, .	1.1	6
142	A radial collimator for a time-of-flight neutron spectrometer. Review of Scientific Instruments, 2014, 85, 085101.	0.6	26
143	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	0.6	107
144	Quantum excitation spectrum of hydrogen adsorbed in nanoporous carbons observed by inelastic neutron scattering. Carbon, 2013, 58, 46-58.	5.4	19

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145	Toward a new polyethylene scattering law determined using inelastic neutron scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 166-179.	0.7	13
146	Electronic structure and vibrational entropies of fcc Au-Fe alloys. Physical Review B, 2013, 87, .	1.1	16
147	Modern approaches to studying gas adsorption in nanoporous carbons. Journal of Materials Chemistry A, 2013, 1, 9341.	5.2	47
148	Phonon densities of states of face-centered-cubic Ni-Fe alloys. Journal of Applied Physics, 2013, 113, .	1.1	12
149	Quantum fluctuations in spin-ice-like Pr ₂ Zr ₂ O ₇ . Nature Communications, 2013, 4, 1934.	5.8	153
150	Effects of temperature and pressure on phonons in FeSi. Physical Review B, 2013, 87, .	1.1	12
151	spin waves in CrCl ₂ . Physical Review B, 2013, 88, .	1.1	14
152	Doping dependence of the spin excitations in the Fe-based superconductors Fe _{1+y} Te _{1-x} Se _x . Physical Review B, 2013, 87, .	1.1	12
153	Inelastic Neutron Scattering Study of a Nonmagnetic Collapsed Tetragonal Phase in Nonsuperconducting CaFe ₂ Se ₄ . Physical Review Letters, 2013, 110, 177401.	1.1	12
154	Evidence of the Impact of Spin Fluctuations on Superconductivity in the Iron-Arsenide Compounds. Physical Review Letters, 2013, 110, 177401.	1.1	12
155	Design and operation of the wide angular-range chopper spectrometer ARCS at the Spallation Neutron Source. Review of Scientific Instruments, 2012, 83, 015114.	0.6	210
156	Quasi-One-Dimensional Magnons in an Intermetallic Marcasite. Physical Review Letters, 2012, 108, 167202.	2.9	21
157	Transport, thermal, and magnetic properties of the narrow-gap semiconductor CrSb ₂ . Physical Review B, 2012, 86, .	1.1	43
158	Magnetically Driven Metal-Insulator Transition in NaOsO ₃ . Physical Review Letters, 2012, 108, 257209.	2.9	115
159	Two-Dimensional Incommensurate Magnetic Fluctuations in Sr ₂ (Ru _{0.99} Ti _{0.01})O ₄ . Journal of the Physical Society of Japan, 2012, 81, 124710.	0.7	8
160	Absence of long-range chemical ordering in equimolar FeCoCrNi. Applied Physics Letters, 2012, 100, .	1.5	176
161	Lattice dynamics reveals a local symmetry breaking in the emergent dipole phase of PbTe. Physical Review B, 2012, 86, .	1.1	55

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163	Magnetic Soft Modes in the Distorted Triangular Antiferromagnet CaCr_2O_4 . Physical Review Letters, 2012, 109, 127203.	2.9	26
164	Continuous magnetic and structural phase transitions in FeTe . Physical Review B, 2012, 85, .	1.1	54
165	Effect of Li-deficiency impurities on the electron-overdoped LiFeAs superconductor. Physical Review B, 2012, 86, .	1.1	27
166	Thermal evolution of the full three-dimensional magnetic excitations in the multiferroic BiFeO_3 . Physical Review B, 2012, 86, .	1.1	20
167	Diffusion of Single B Cell Receptors in Resting and Stimulated B Lymphocytes using Super-Resolution Microscopy. Biophysical Journal, 2012, 102, 665a.	0.2	0
168	Structure and magnetic properties of the pyrochlore iridate $\text{Y}_2\text{Ir}_2\text{O}_7$. Physical Review B, 2012, 85, .	1.1	91
169	Anharmonic phonons and magnons in BiFeO_3 . Physical Review B, 2012, 85, .	1.1	31
170	Paramagnetic spin correlations in colossal magnetoresistive $\text{CaRnMn}_2\text{O}_7$. Physical Review B, 2012, 85, .	1.1	6
171	Phonon softening and metallization of a narrow-gap semiconductor by thermal disorder. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4725-4730.	3.3	96
172	Role of magnetic exchange energy on charge ordering in RbMnPO_4 . Physical Review B, 2011, 84, .	1.1	18
173	Spin waves and magnetic exchange interactions in insulating $\text{Rb}_0.89\text{Fe}_{1.58}\text{Se}_2$. Nature Communications, 2011, 2, 580.	5.8	85
174	Nonharmonic phonons in MgB_2 at elevated temperatures. Physical Review B, 2011, 83, .	1.1	4
175	Lattice dynamics and anomalous softening in the YbFe_4Sb_7 . Physical Review B, 2011, 84, .	1.1	10
176	Positive Vibrational Entropy of Chemical Ordering in FeV . Physical Review Letters, 2011, 107, 115501.	2.9	35
177	Unconventional Temperature Enhanced Magnetism in FeTe . Physical Review Letters, 2011, 107, 216403.	2.9	79
178	Pressure Dependent Diffraction and Spectroscopy of a Dimerized Antiferromagnet. Journal of the Physical Society of Japan, 2011, 80, SB005.	0.7	0
179	Persistence of magnons in a site-diluted dimerized frustrated antiferromagnet. Journal of Physics Condensed Matter, 2011, 23, 416003.	0.7	5
180	Ultrathin aluminum sample cans for single crystal inelastic neutron scattering. Review of Scientific Instruments, 2011, 82, 055117.	0.6	4

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181	Quantitative structure refinement from the ARCS chopper spectrometer. Journal of Physics: Conference Series, 2010, 251, 012080.	0.3	2
182	Thermodynamic properties and neutron diffraction studies of silver ferrite AgFeO ₂ . Journal of Physics Condensed Matter, 2010, 22, 016007.	0.7	22
183	Evolution of spin excitations into the superconducting state in FeTe _{1-x} Sex. Nature Physics, 2010, 6, 182-186.	6.5	151
184	Effects of chemical composition and B2 order on phonons in bcc Fe-Co alloys. Journal of Applied Physics, 2010, 108, .	1.1	13
185	Anisotropic and quasipropagating spin excitations in superconducting $BaFe_2As_2$. Physical Review B, 2010, 82, .	1.1	54
186	Effects of composition, temperature, and magnetism on phonons in bcc Fe-V alloys. Physical Review B, 2010, 82, .	1.1	19
187	Spin excitations in $BaFe_2As_2$ observed by inelastic neutron scattering. Physical Review B, 2009, 80, .	1.1	184
188	Phonon softening and anomalous mode near the critical point in $CaMn_2P_2$. Physical Review B, 2009, 80, .	1.1	8
189	Two-dimensional resonant magnetic excitation in $BaFe_2Co_2$. Physical Review Letters, 2009, 102, 107005.	2.9	237
190	Spin-lozenge thermodynamics and magnetic excitations in Na ₃ RuO ₄ . Journal of Physics Condensed Matter, 2009, 21, 506003.	0.7	9
191	Atomic pair distribution function analysis from the ARCS chopper spectrometer at the Spallation Neutron Source. Journal of Applied Crystallography, 2009, 42, 724-725.	1.9	5
192	Phonon density of states and heat capacity of $LaFeAsO$. Physical Review B, 2009, 80, .	1.1	89
193	Phonon Density of States of $LaFeAsO$. Physical Review Letters, 2008, 101, 157004.	2.9	65
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