

Douglas L Abernathy

List of Publications by Year in descending order

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270
papers

9,228
citations

33972

52
h-index

53958

85
g-index

281
all docs

281
docs citations

281
times ranked

12427
citing authors

#	ARTICLE	IF	CITATIONS
1	Proximate spin liquid and fractionalization in the triangular antiferromagnet KYbSe ₂ . Nature Physics, 2024, 20, 74-81.	11.8	12
2	Perioperative dose-dense methotrexate, vinblastine, doxorubicin, and cisplatin in muscle-invasive bladder cancer (VESPER): survival endpoints at 5 years in an open-label, randomised, phase 3 study. Lancet Oncology, The, 2024, 25, 255-264.	10.8	12
3	Chiral and flat-band magnetic quasiparticles in ferromagnetic and metallic kagome layers. Nature Communications, 2024, 15, .	13.2	1
4	Abstract 3631: Preclinical and clinical pharmacodynamic characterization of BBI-355, a novel, orally bioavailable, and selective CHK1 inhibitor being evaluated in the first-in-human Phase 1/2 POTENTIATE clinical trial of patients with cancer harboring oncogene amplifications. Cancer Research, 2024, 84, 3631-3631.	0.9	0
5	New insight into tuning magnetic phases of RMn ₆ Sn ₆ kagome metals. Npj Quantum Materials, 2024, 9, .	5.2	0
6	Magnetic interactions and excitations in SrMnSb_2 . Physical Review B, 2024, 109, .	3.3	0
7	Real-space local self-motion of protonated and deuterated water. Physical Review E, 2024, 109, .	2.1	0
8	Real-space atomic dynamics in metallic liquids investigated by inelastic neutron scattering. Physical Review B, 2024, 110, .	3.3	0
9	Temperature-dependent spin dynamics in Cr_2O_3 . Physical Review B, 2024, 110, .	3.3	0
10	Comment on "Resonant inelastic x-ray scattering from U_3O_8 and UN^{TM} ". Journal of Physics Condensed Matter, 2024, 36, 508001.	1.9	0
11	Magnetic molecular orbitals in MnSi. Science Advances, 2023, 9, .	10.9	7
12	Nonharmonic contributions to the high-temperature phonon thermodynamics of Cr. Physical Review B, 2023, 107, .	3.3	0
13	Vibrational dynamics in the undercooled liquid of ultra-fragile metallic glasses. Materialia, 2023, 27, 101710.	2.8	0
14	Dynamic crystallography reveals spontaneous anisotropy in cubic GeTe. Nature Materials, 2023, 22, 311-315.	26.6	22
15	Diffusive excitonic bands from frustrated triangular sublattice in a singlet-ground-state system. Nature Communications, 2023, 14, .	13.2	4
16	Spin-phonon interactions induced anomalous thermal conductivity in nickel (II) oxide. Materials Today Physics, 2023, 35, 101094.	6.3	3
17	Orbital character of the spin-reorientation transition in TbMn ₆ Sn ₆ . Nature Communications, 2023, 14, .	13.2	4
18	Functional outcome after single-stage laryngotracheal reconstruction with rib cartilage grafting. Journal of Thoracic and Cardiovascular Surgery, 2022, 163, 313-322.e3.	2.7	11

#	ARTICLE	IF	CITATIONS
19	Closed Repair Technique: Innovative Surface Design for Polymethylmethacrylate Denture Base Repair. Journal of Prosthodontics, 2022, 31, 257-265.	3.7	3
20	Role of the third dimension in searching for Majorana fermions in $\hat{\Gamma}_{\pm}$ via phonons. Physical Review Research, 2022, 4, .	1.7	1
21	Introduction. , 2022, , 1-10.		0
22	Lattice and magnetic dynamics in the YVO_3 Mott insulator studied by neutron scattering and first-principles calculations. Physical Review B, 2022, 105, .	3.3	1
23	Strongly Anharmonic Phonons and Their Role in Superionic Diffusion and Ultralow Thermal Conductivity of Cu_7PSe_6 . Advanced Energy Materials, 2022, 12, .	22.2	37
24	Low-Temperature Competing Magnetic Energy Scales in the Topological Ferrimagnet $TbMn_6$ Physical Review X, 2022, 12, .	9.1	16
25	Thermal expansion and phonon anharmonicity of cuprite studied by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2022, 105, .	3.3	6
26	Spiral Spin Liquid on a Honeycomb Lattice. Physical Review Letters, 2022, 128, .	8.0	21
27	Real-Space Local Dynamics of Molten Inorganic Salts Using Van Hove Correlation Function. Journal of Physical Chemistry Letters, 2022, 13, 5956-5962.	4.9	8
28	Frustration-induced diffusive scattering anomaly and dimension change in $FeGe_2$ Physical Review B, 2022, 106, .	1.3	0
29	Suppressed thermal conductivity in hyperstoichiometric uranium dioxide controlled by phonon lifetimes. Applied Physics Letters, 2022, 121, .	3.2	0
30	First experimental demonstration of VMAT combined with MLC tracking for single and multi fraction lung SBRT on an MR-linac. Radiotherapy and Oncology, 2022, 174, 149-157.	0.6	23
31	Mutual spin-phonon driving effects and phonon eigenvector renormalization in nickel (II) oxide. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.6	2
32	Generalized quasiharmonic approximation via space group irreducible derivatives. Physical Review B, 2022, 106, .	3.3	10
33	Phonon and structural properties of $RbCeX_2$		

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37	Kur lietuviÅ³ literatÅ«ros vieta?. Res Humanitariae, 2021, 17, 236-242.	0.0	0
38	Two-dimensional overdamped fluctuations of the soft perovskite lattice in CsPbBr3. Nature Materials, 2021, 20, 977-983.	26.6	100
39	The first pectoral and forelimb material assigned to the lagerpetid Lagerpeton chanarensis (Archosauria: Dinosauriformes) from the upper portion of the Chañares Formation, Late Triassic. Palaeodiversity, 2021, 14, .	1.1	7
40	Charge neutralisation of microparticles by pulsing a low-pressure shielded spatial plasma afterglow. Plasma Sources Science and Technology, 2021, 30, 045016.	3.2	18
41	Prediction and observation of intermodulation sidebands from anharmonic phonons in NaBr. Physical Review B, 2021, 103, .	3.3	1
42	Soft anharmonic phonons and ultralow thermal conductivity in Mg₃ (Sb, Bi)₂ thermoelectrics. Science Advances, 2021, 7, .	10.9	59
43	Antiferromagnetic ordering and possible lattice response to dynamic uranium valence in U_3O_8. Physical Review B, 2021, 103, .	3.3	6
44	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. Materials Today Physics, 2021, 18, 100344.	6.3	46
45	Neutron thermalization in nuclear graphite: A modern story of a classic moderator. Annals of Nuclear Energy, 2021, 161, 108437.	1.8	5
46	Thermal neutron scattering measurements and modeling of yttrium-hydrides for high temperature moderator applications. Annals of Nuclear Energy, 2021, 157, 108224.	1.8	7
47	LINC00511 knockdown suppresses glioma cell malignant progression through miR-15a-5p/AEBP1 axis. Brain Research Bulletin, 2021, 173, 82-96.	3.1	11
48	Magnetic Field Effect on Topological Spin Excitations in CrI_3. Physical Review X, 2021, 11, .	9.1	48
49	Quasiparticle twist dynamics in non-symmorphic materials. Materials Today Physics, 2021, 21, 100548.	6.3	9
50	Excerpts From "Civil Disobedience". , 2021, , 139-149.		0
51	Matryoshka phonon twinning in Î±-GaN. Communications Physics, 2021, 4, .	5.3	2
52	Fast Na diffusion and anharmonic phonon dynamics in superionic Na₃PS₄. Energy and Environmental Science, 2021, 14, 6554-6563.	32.2	49
53	Spin waves and Dirac magnons in a honeycomb-lattice zigzag antiferromagnet BaNi_2. Physical Review B, 2021, 104, .	3.1	3
54	Real-Time Prediction Model of Coal and Gas Outburst. Mathematical Problems in Engineering, 2020, 2020, 1-5.	1.2	8

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55	Blood glucose response to a calamansi drink in healthy adults: a non-randomised study. BMC Research Notes, 2020, 13, 404.	1.4	1
56	A successful treatment of severe lupoid cutaneous leishmaniasis in an elderly man: a case report. Oxford Medical Case Reports, 2020, 2020, omaa064.	0.4	2
57	Anharmonic Origin of the Giant Thermal Expansion of NaBr. Physical Review Letters, 2020, 125, 085504.	8.0	15
58	Nonlinear propagating modes beyond the phonons in fluorite-structured crystals. Communications Physics, 2020, 3, .	5.3	18
59	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2020, 102, .	3.3	20
60	Phonon spectrum of underdoped $\text{HgBa}_2\text{CuO}_{8-x}$ investigated by neutron scattering. Physical Review B, 2020, 101, .	10.7	13
61	Observation of High-Frequency Transverse Phonons in Metallic Glasses. Physical Review Letters, 2020, 124, 225902.	8.0	21
62	Vacancy-driven variations in the phonon density of states of fast neutron irradiated nuclear graphite. Carbon, 2020, 168, 42-54.	10.7	13
63	Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity. Carbon, 2020, 167, 634-645.	10.7	13
64	Study of pharmacogenomic information in FDA-approved drug labeling to facilitate application of precision medicine. Drug Discovery Today, 2020, 25, 813-820.	6.6	33
65	Experimental determination of the temperature-dependent Van Hove function in a $\text{Zr}_{80}\text{Pt}_{20}$ liquid. Journal of Chemical Physics, 2020, 152, 074506.	3.1	17
66	Strong local moment antiferromagnetic spin fluctuations in V-doped LiFeAs . Npj Quantum Materials, 2020, 5, .	5.2	4
67	Anharmonic lattice dynamics and superionic transition in AgCrSe_2 . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3930-3937.	7.6	82
68	Spin dynamics in antiferromagnetic oxypnictides and fluoropnictides: LaMnAsO , LaMnSbO , and BaMnAsF . Physical Review B, 2020, 101, .	3.3	7
69	Magnetically driven phonon instability enables the metal-insulator transition in h-FeS . Nature Physics, 2020, 16, 669-675.	11.8	26
70	Tissue mimicking materials for imaging and therapy phantoms: a review. Physics in Medicine and Biology, 2020, 65, .	3.0	91
71	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, .	3.3	1
72	Temporally decoherent and spatially coherent vibrations in metal halide perovskites. Physical Review B, 2020, 102, .	3.3	8

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73	Controlling phonon lifetimes via sublattice disordering in AgBi_2S_3 . Physical Review Materials, 2020, 4, .	2.5	8
74	Temperature-dependent lattice dynamics in iridium. Physical Review Materials, 2020, 4, .	2.5	8
75	Predicting plasticity in disordered solids from structural indicators. Physical Review Materials, 2020, 4, .	2.5	121
76	Giant low-temperature anharmonicity in silicon nanocrystals. Physical Review Materials, 2020, 4, .	2.5	3
77	Recent developments of MCViNE and its applications at SNS. Journal of Physics Communications, 2019, 3, 085005.	1.2	27
78	Plaquette instability competing with bicollinear ground state in detwinned FeTe. Physical Review B, 2019, 100, .	3.3	7
79	Competing magnetic phases and itinerant magnetic frustration in $\text{SrCo}_2\text{Mn}_4\text{O}_{12}$. Physical Review B, 2019, 100, .	3.3	8
80	Vibrational properties of uranium fluorides. Physica B: Condensed Matter, 2019, 570, 194-205.	2.8	6
81	Human heart shifts from IGF-1 production to utilization with chronic heart failure. Endocrine, 2019, 65, 714-716.	2.3	6
82	Frustrated magnetic interactions in an $\text{S}_3\text{Bi}_3\text{O}_{12}$ bilayer honeycomb lattice compound. Physical Review B, 2019, 100, .	3.3	8
83	Response to comment on "Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations". Science Advances, 2019, 5, eaaw4367.	10.9	1
84	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. Chemistry of Materials, 2019, 31, 3705-3711.	7.1	131
85	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in $\text{SrCo}_2\text{Mn}_4\text{O}_{12}$. Physical Review Letters, 2019, 122, 117204.	8.0	25
86	Energy dependence of the flux and elastic resolution for the ARCS neutron spectrometer. Physica B: Condensed Matter, 2019, 562, 26-30.	2.8	13
87	Super-resolution energy spectra from neutron direct-geometry spectrometers. Review of Scientific Instruments, 2019, 90, 105109.	1.4	9
88	Lattice dynamics of the hybrid improper ferroelectrics $\text{Ca}_7\text{O}_7\text{Mn}_7\text{O}_{25}$. Physical Review B, 2019, 100, .	3.3	9
89	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. Physical Review B, 2019, 99, .	3.3	1
90	Selective breakdown of phonon quasiparticles across superionic transition in CuCrSe2. Nature Physics, 2019, 15, 73-78.	11.8	97

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91	Impact of anharmonicity on the vibrational entropy and specific heat of UO_2 . Physical Review Materials, 2019, 3, .	15.5	155
92	The effect in the quadriceps muscle activity between with and without upper limb support during front bridge exercise. Journal of Allied Health Sciences, 2019, 10, 42-47.	0.0	0
93	Tuning mobility and stability of lithium ion conductors based on lattice dynamics. Energy and Environmental Science, 2018, 11, 850-859.	32.2	182
94	Nuclear quantum effect with pure anharmonicity and the anomalous thermal expansion of silicon. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1992-1997.	7.6	72
95	Momentum-resolved observations of the phonon instability driving geometric improper ferroelectricity in yttrium manganite. Nature Communications, 2018, 9, 15.	13.2	30
96	Integrable systems with BMS3 Poisson structure and the dynamics of locally flat spacetimes. Journal of High Energy Physics, 2018, 2018, 1.	4.8	25
97	The Barnacle & Balanus improvisus as a Marine Model - Culturing and Gene Expression. Journal of Visualized Experiments, 2018, . .	0.3	8
98	Stabilization of Polar Nanoregions in Pb-free Ferroelectrics. Physical Review Letters, 2018, 120, 207603.	8.0	46
99	Doping evolution of spin fluctuations and their peculiar suppression at low temperatures in $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. Physical Review B, 2018, 97, .	3.3	5
100	Discovery of coexisting Dirac and triply degenerate magnons in a three-dimensional antiferromagnet. Nature Communications, 2018, 9, 2591.	13.2	65
101	Supersonic propagation of lattice energy by phasons in fersnoite. Nature Communications, 2018, 9, 1823.	13.2	15
102	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. Physical Review Letters, 2018, 120, 245701.	8.0	25
103	Ant1 mutant mice bridge the mitochondrial and serotonergic dysfunctions in bipolar disorder. Molecular Psychiatry, 2018, 23, 2039-2049.	8.2	34
104	Temperature dependence of phonons in FeGe_2 . Physical Review Materials, 2018, 2, .	2.5	25
105	Relevance of Kondo physics for the temperature dependence of the bulk modulus in plutonium. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E268.	7.6	9
106	Lattice dynamics and thermal transport in multiferroic CuCrO_2 . Physical Review B, 2017, 95, .	3.3	22
107	Separating the configurational and vibrational entropy contributions in metallic glasses. Nature Physics, 2017, 13, 900-905.	11.8	88
108	Nanostructured Materials and Architectures for Advanced Infrared Photodetection. Advanced Materials Technologies, 2017, 2, 1700005.	6.2	93

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109	Higgs mode and its decay in a two-dimensional antiferromagnet. Nature Physics, 2017, 13, 633-637.	11.8	138
110	Phonon localization transition in relaxor ferroelectric PZN-5%PT. Applied Physics Letters, 2017, 110, 132901.	3.2	2
111	Design and operating characteristic of a vacuum furnace for time-of-flight inelastic neutron scattering measurements. Review of Scientific Instruments, 2017, 88, 105116.	1.4	15
112	Effective One-Dimensional Coupling in the Highly Frustrated Square-Lattice Itinerant Magnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Physical Review Letters, 2017, 119, 147201.	8.0	27
113	Muon spin relaxation and inelastic neutron scattering investigations of the all-in/all-out antiferromagnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Physical Review B, 2017, 95, .	3.2	20
114	Correspondence: Reply to "Phantom phonon localization in relaxors". Nature Communications, 2017, 8, 1936.	13.2	2
115	Characterization of plastic and boron carbide additive manufactured neutron collimators. Review of Scientific Instruments, 2017, 88, 123102.	1.4	19
116	Robust antiferromagnetic spin waves across the metal-insulator transition in hole-doped <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Physical Review B, 2017, 95, .	3.2	19
117	Predictive value of CHADS2 and CHA2DS2-VASc scores for acute myocardial infarction in patients with atrial fibrillation. Scientific Reports, 2017, 7, 4730.	3.4	6
118	Pseudo-Goldstone Magnons in the Frustrated <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Heisenberg Helimagnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Physical Review X, 2017, 7, .	9.1	18
119	A medicolegal study of domestic violence in south region of Jordan. Egyptian Journal of Forensic Sciences, 2017, 7, 5.	1.0	5
120	Commensurate antiferromagnetic excitations as a signature of the pseudogap in the tetragonal high-Tc cuprate HgBa ₂ CuO ₄ + δ . Nature Communications, 2016, 7, 10819.	13.2	56
121	Magnon spectrum of the helimagnetic insulator Cu ₂ OSeO ₃ . Nature Communications, 2016, 7, 10725.	13.2	38
122	First-principles studies of atomic dynamics in tetrahedrite thermoelectrics. APL Materials, 2016, 4, 104811.	4.8	13
123	Hourglass Dispersion and Resonance of Magnetic Excitations in the Superconducting State of the Single-Layer Cuprate <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">$\langle S^z \rangle$</math> Near O. Physical Review Letters, 2016, 117, 277002.	8.0	27
124	Momentum and energy dependent resolution function of the ARCS neutron chopper spectrometer at high momentum transfer: Comparing simulation and experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 835, 34-41.	1.6	6
125	Three-mode coupling interference patterns in the dynamic structure factor of a relaxor ferroelectric. Physical Review B, 2016, 94, .	3.3	4
126	Phonon anharmonicity and negative thermal expansion in SnSe. Physical Review B, 2016, 94, .	3.3	94

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127	Thermally Driven Electronic Topological Transition in FeTi. Physical Review Letters, 2016, 117, 076402.	8.0	3
128	Spin excitations used to probe the nature of exchange coupling in the magnetically ordered ground state of $S_{Pr} > 0.5$. Physical Review B, 2016, 94, .	3.3	7
129	Light atom quantum oscillations in UC and US. Physical Review B, 2016, 93, .	3.3	5
130	Structural phase transition and phonon instability in $S_{Cu} > 12$. Physical Review B, 2016, 93, .	3.3	52
131	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor $S_{La} > 8$. Physical Review B, 2016, 93, .	3.3	8
132	Electron doping evolution of the magnetic excitations in $S_{NaFe} > 1$. Physical Review B, 2016, 93, .	3.3	16
133	Orbital Selective Spin Excitations and their Impact on Superconductivity of $S_{LiFe} > 1$. Physical Review Letters, 2016, 116, 247001.	8.0	32
134	Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations. Science Advances, 2016, 2, e1501814.	10.9	98
135	Magnon dynamics in the incommensurate spin-ladder compound $S_r > 14$. Physical Review B, 2016, 93, .	3.3	16
136	MCVINE – An object oriented Monte Carlo neutron ray tracing simulation package. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 810, 86-99.	1.6	52
137	BRCA1/2 testing in newly diagnosed breast and ovarian cancer patients without prior genetic counselling: the DNA-BONus study. European Journal of Human Genetics, 2016, 24, 881-888.	2.9	60
138	Perception of stimuli by preterm infants. Acta Paediatrica, International Journal of Paediatrics, 2015, 104, 964-964.	1.5	0
139	Heavy-impurity resonance, hybridization, and phonon spectral functions in $S_{La} > 24$. Physical Review B, 2016, 93, .		

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145	Electron-phonon coupling and thermal transport in the thermoelectric compound $\text{Mo}_{1-x}\text{Te}_x$. Physical Review B, 2015, 92, .	3.3	19
146	Spin dynamics near a putative antiferromagnetic quantum critical point in Cu-substituted $\text{BaFe}_{1-x}\text{Co}_x\text{As}_2$ and its relation to high-temperature superconductivity. Physical Review B, 2015, 92, .	3.3	9
147	Extracting source parameters from beam monitors on a chopper spectrometer. EPJ Web of Conferences, 2015, 83, 03001.	0.3	8
148	The ARCS radial collimator. EPJ Web of Conferences, 2015, 83, 03014.	0.3	7
149	High- T_c Layered Ferrielectric Crystals by Coherent Spinodal Decomposition. ACS Nano, 2015, 9, 12365-12373.	15.3	72
150	Magnetic structure and crystal-field states of the pyrochlore antiferromagnet Nd_2O_7 . Physical Review B, 2015, 92, .	3.3	85
151	Phonon anharmonicity in silicon from 100 to 1500 K. Physical Review B, 2015, 91, .	3.3	52
152	Ecosystem simplification, biodiversity loss and plant virus emergence. Current Opinion in Virology, 2015, 10, 56-62.	5.6	122
153	The valence-fluctuating ground state of plutonium. Science Advances, 2015, 1, e1500188.	10.9	94
154	Twisting phonons in complex crystals with quasi-one-dimensional substructures. Nature Communications, 2015, 6, 6723.	13.2	79
155	Direct observation of dynamic charge stripes in $\text{La}_{1-x}\text{Sr}_x\text{NiO}_4$. Nature Communications, 2014, 5, 3467.	13.2	42
156	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. Physical Review B, 2014, 90, .	3.3	68
157	Crystallography and physical properties of BaCo_2As_2 . Physical Review B, 2014, 90, .	3.3	27
158	Phonon spectrum of SrFe_2O_7 using multizone phonon refinement. Physical Review B, 2014, 89, .	3.3	23
159	Neutron Scattering Measurements of Spatially Anisotropic Magnetic Exchange Interactions in Semiconducting $\text{K}_x\text{Ag}_{1-x}\text{Sb}$. Physical Review Letters, 2014, 112, 177302.	8.0	17
160	Phonon scattering rates and atomic ordering in $\text{Ag}_x\text{Sb}_{1-x}$. Physical Review B, 2014, 90, .	3.3	23

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163	Anharmonic lattice dynamics of Ag_2S by inelastic neutron scattering and first-principles molecular dynamics simulations. Physical Review B, 2014, 89, .	3.3	27
164	Effect of Pnictogen Height on Spin Waves in Iron Pnictides. Physical Review Letters, 2014, 112, .	8.0	55
165	Metallization of vanadium dioxide driven by large phonon entropy. Nature, 2014, 515, 535-539.	36.2	267
166	Evidence for a Common Physical Origin of the Landau and BEC Theories of Superfluidity. Physical Review Letters, 2014, 113, 215302.	8.0	15
167	Direct measurement of the spin gap in a quasi-one-dimensional clinopyroxene: $\text{NaTiSi}_2\text{O}_6$. Physical Review B, 2014, 90, .	3.3	4
168	Modified magnetism within the coherence volume of superconducting $\text{FeSe}_x\text{Te}_{1-x}$. Physical Review B, 2014, 90, .	3.3	6
169	A radial collimator for a time-of-flight neutron spectrometer. Review of Scientific Instruments, 2014, 85, 085101.	1.4	28
170	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	1.4	114
171	Phonon density of states and anharmonicity of UO_2 . Physical Review B, 2014, 89, .	3.3	3
172	Multiple high-temperature transitions driven by dynamical structures in NaI . Physical Review B, 2014, 89, .	3.3	12
173	Using Monte Carlo ray tracing simulations to model the quantum harmonic oscillator modes observed in uranium nitride. Physical Review B, 2014, 89, .	3.3	18
174	Multimode STEM Imaging and Tomography of Radial Heterostructure Nanowire Li-Ion Mini-Batteries. Microscopy and Microanalysis, 2014, 20, 426-427.	0.4	1
175	Financial Impact of Surgical Site Infections on Hospitals. JAMA Surgery, 2013, 148, 907.	4.5	201
176	One-step fabrication of 3D hierarchical Ni-incorporated $\text{Ni}^{2+}\text{-Co}(\text{OH})_2$ assembled by 2D center disk and 1D length-tunable brush. RSC Advances, 2013, 3, 2604.	3.7	7
177	Electronic structure and vibrational entropies of fcc Au-Fe alloys. Physical Review B, 2013, 87, .	3.3	16
178	Phonon densities of states of face-centered-cubic Ni-Fe alloys. Journal of Applied Physics, 2013, 113, .	2.3	12
179	Class-like phonon scattering from a spontaneous nanostructure in AgSbTe_2 . Nature Nanotechnology, 2013, 8, 445-451.	30.5	171
180	Taxonomy versus phylogeny: evolutionary history of marsh rabbits without hopping to conclusions. Diversity and Distributions, 2013, 19, 120-133.	4.1	6

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181	Effects of temperature and pressure on phonons in FeSi Doping dependence of the spin excitations in the Fe-based superconductors Fe _{1-x} Al _x Te Physical Review Letters, 2013, 111, 157001.	3.3	12
182	Stripe Antiferromagnetic Spin Fluctuations in Fe _{1-x} Te Physical Review Letters, 2013, 111, 227002.	3.3	12
183	Inelastic Neutron Scattering Study of a Nonmagnetic Collapsed Tetragonal Phase in Nonsuperconducting SrCo ₂ As ₂ Physical Review Letters, 2013, 111, 157001.	8.0	48
184	Evidence of the Impact of Spin Fluctuations on Superconductivity in the Iron-Arsenide Compounds. Physical Review Letters, 2013, 111, 227002.	8.0	48
185	Design and operation of the wide angular-range chopper spectrometer ARCS at the Spallation Neutron Source. Review of Scientific Instruments, 2012, 83, 015114.	1.4	218
186	Quantum oscillations of nitrogen atoms in uranium nitride. Nature Communications, 2012, 3, 1124.	13.2	17
187	Bose-Einstein condensation in liquid He near the Neutron scattering studies of spin excitations in superconducting Rb _{1-x} Fe _x Se Physical Review Letters, 2012, 109, 057001.	3.3	23
188	Neutron scattering studies of spin excitations in superconducting Rb _{1-x} Fe _x Se Physical Review Letters, 2012, 109, 057001.	3.3	18
189	Inelastic neutron scattering study of phonon density of states in nanostructured Si _{1-x} Ge _x thermoelectrics. Physical Review B, 2012, 86, .	3.3	29
190	Inelastic neutron scattering study of phonon density of states in nanostructured Si _{1-x} Ge _x thermoelectrics. Physical Review B, 2012, 86, .	3.3	29
191	Absence of long-range chemical ordering in equimolar FeCoCrNi. Applied Physics Letters, 2012, 100, .	3.2	184
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