

Douglas Abernathy

List of Publications by Year in descending order

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210
papers

7,840
citations

43973

48
h-index

62479

80
g-index

215
all docs

215
docs citations

215
times ranked

8412
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallization of vanadium dioxide driven by large phonon entropy. Nature, 2014, 515, 535-539.	13.7	252
2	Layering of a liquid metal in contact with a hard wall. Nature, 1997, 390, 379-381.	13.7	243
3	Two-dimensional resonant magnetic excitation in $\text{BaFe}_{1.84}\text{Co}_{2.37}\text{As}_2$. Physical Review Letters, 2009, 102, 107005.	2.9	237
4	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
5	Structural Relationship between Negative Thermal Expansion and Quartic Anharmonicity of Cubic ScF_3 . Physical Review Letters, 2011, 107, 195504.	2.9	201
6	X-Ray Intensity Fluctuation Spectroscopy Observations of Critical Dynamics in Fe ₃ Al. Physical Review Letters, 1995, 74, 2010-2013.	2.9	182
7	Absence of long-range chemical ordering in equimolar FeCoCrNi. Applied Physics Letters, 2012, 100, .	1.5	176
8	The Spallation Neutron Source in Oak Ridge: A powerful tool for materials research. Physica B: Condensed Matter, 2006, 385-386, 955-960.	1.3	163
9	Glass-like phonon scattering from a spontaneous nanostructure in AgSbTe ₂ . Nature Nanotechnology, 2013, 8, 445-451.	15.6	161
10	Tuning mobility and stability of lithium ion conductors based on lattice dynamics. Energy and Environmental Science, 2018, 11, 850-859.	15.6	158
11	Evolution of spin excitations into the superconducting state in FeTe _{1-x} Se _x . Nature Physics, 2010, 6, 182-186.	6.5	151
12	Higgs mode and its decay in a two-dimensional antiferromagnet. Nature Physics, 2017, 13, 633-637.	6.5	133
13	Dynamics of Block Copolymer Micelles Revealed by X-Ray Intensity Fluctuation Spectroscopy. Physical Review Letters, 1997, 78, 1275-1278.	2.9	123
14	Self-assembly of organic films on a liquid metal. Nature, 1996, 384, 250-252.	13.7	116
15	Coherent Propagation of X Rays in a Planar Waveguide with a Tunable Air Gap. Physical Review Letters, 1999, 82, 1696-1699.	2.9	112
16	Long-Range Antiferromagnetic Order in a Rocksalt High Entropy Oxide. Chemistry of Materials, 2019, 31, 3705-3711.	3.2	112
17	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
18	Photon Correlation Spectroscopy of Colloidal Palladium Using a Coherent X-Ray Beam. Physical Review Letters, 1996, 77, 5437-5440.	2.9	104

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37	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.	3.3	68
38	High- T_c Layered Ferrielectric Crystals by Coherent Spinodal Decomposition. ACS Nano, 2015, 9, 12365-12373.	7.3	67
39	Phonon Density of States of LaFeAsO . Physical Review Letters, 2008, 101, 157004.	2.9	65
40	Anharmonicity and atomic distribution of SnTe and PbTe thermoelectrics. Physical Review B, 2014, 90, .	1.1	64
41	Discovery of coexisting Dirac and triply degenerate magnons in a three-dimensional antiferromagnet. Nature Communications, 2018, 9, 2591.	5.8	62
42	Molecular Quantum Magnetism in LiZn_2O_8 . Physical Review Letters, 2014, 112, 027202.	2.9	59
43	Effect of Pnictogen Height on Spin Waves in Iron Pnictides. Physical Review Letters, 2014, 112, .	2.9	55
44	Commensurate antiferromagnetic excitations as a signature of the pseudogap in the tetragonal high-Tc cuprate $\text{HgBa}_2\text{CuO}_4+\text{F}$. Nature Communications, 2016, 7, 10819.	5.8	55
45	Anisotropic and quasipropagating spin excitations in superconducting BaFe_2As_2 . Physical Review B, 2010, 82, .	1.1	54
46	Soft anharmonic phonons and ultralow thermal conductivity in $\text{Mg}_3(\text{Sb, Bi})_2$ thermoelectrics. Science Advances, 2021, 7, .	4.7	52
47	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.	0.7	51
48	Dynamics and correlations in magnetic colloidal systems studied by X-ray photon correlation spectroscopy. European Physical Journal E, 2001, 4, 263-271.	0.7	50
49	Coherent x-ray diffraction imaging of silicon oxide growth. Physical Review B, 1999, 60, 9965-9972.	1.1	48
50	Structural phase transition and phonon instability in Cu_2S_{13} . Physical Review B, 2016, 93, .	1.1	48
51	Stripe Antiferromagnetic Spin Fluctuations in SrCo_2As_2 . Physical Review Letters, 2013, 111, 157001.	2.9	47
52	Phonon anharmonicity in silicon from 100 to 1500 K. Physical Review B, 2015, 91, .	1.1	47
53	Stabilization of Polar Nanoregions in Pb-free Ferroelectrics. Physical Review Letters, 2018, 120, 207603.	2.9	46
54	Orientational epitaxy of the hexagonally reconstructed Pt(001) surface. Physical Review Letters, 1991, 67, 3117-3120.	2.9	45

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55	Phonon density of states and anharmonicity of UO_2 . Physical Review B, 2014, 89, .	1.4	45
56	Symmetry-breaking dynamical pattern and localization observed in the equilibrium vibrational spectrum of NaI. Scientific Reports, 2011, 1, 4.	1.6	43
57	Inelastic Neutron Scattering Study of a Nonmagnetic Collapsed Tetragonal Phase in Nonsuperconducting CaFe_2As_2 . Evidence of the Impact of Spin Fluctuations on Superconductivity in the Iron-Arsenide Compounds. Physical Review Letters, 2013, 111, 227002.	2.9	43
58	Direct observation of dynamic charge stripes in $\text{La}_{1-x}\text{Sr}_x\text{NiO}_4$. Nature Communications, 2014, 5, 3467.	5.8	42
59	Uncovering design principles for amorphous-like heat conduction using two-channel lattice dynamics. Materials Today Physics, 2021, 18, 100344.	2.9	42
60	Reconstruction of the (111) and (001) surfaces of Au and Pt: thermal behavior. Surface Science, 1993, 283, 260-276.	0.8	40
61	Dynamics of dense, charge-stabilized suspensions of colloidal silica studied by correlation spectroscopy with coherent X-rays. Journal of Applied Crystallography, 2000, 33, 424-427.	1.9	39
62	qDependence of the Growth-Oscillation Period of X-Ray Reflectivity in Heteroepitaxy: Ho/W(110). Physical Review Letters, 1997, 79, 3954-3957.	2.9	38
63	Photon correlation spectroscopy: X rays versus visible light. Physical Review E, 2000, 61, 1676-1680.	0.8	38
64	Magnon spectrum of the helimagnetic insulator Cu_2OSeO_3 . Nature Communications, 2016, 7, 10725.	5.8	38
65	Magnetic Field Effect on Topological Spin Excitations in CrI_3 . Physical Review X, 2021, 11, .	2.8	37
66	Observation and explanation of one-dimensional x-ray speckle patterns from synthetic multilayers. Physical Review B, 1995, 52, 9917-9924.	1.1	36
67	Structure and dynamics of surfactant-stabilized aggregates of palladium nanoparticles under dilute and semidilute conditions: Static and dynamic x-ray scattering. Physical Review E, 1999, 59, 642-649.	0.8	36
68	Fast Na diffusion and anharmonic phonon dynamics in superionic Na_3PS_4 . Energy and Environmental Science, 2021, 14, 6554-6563.	15.6	36
69	Positive Vibrational Entropy of Chemical Ordering in FeV. Physical Review Letters, 2011, 107, 115501.	2.9	35
70	Event-based processing of neutron scattering data at the Spallation Neutron Source. Journal of Applied Crystallography, 2018, 51, 616-629.	1.9	35
71	Strain relaxation of boron nitride thin films on silicon. Applied Physics Letters, 1998, 73, 777-779.	1.5	33
72	Thermal roughness of a close-packed metal surface: Pt(001). Physical Review Letters, 1992, 69, 941-944.	2.9	32

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73	Critical behavior at chiral melting: Disordering of the Si(113)-(3Å-1) reconstruction. Physical Review Letters, 1993, 71, 750-753.	2.9	32

74	Magnetic Splitting of Valence States in Ferromagnetic and Antiferromagnetic Lanthanide Metals. Physical Review Letters, 2000, 84, 5624-5627.	2.9	32
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75	Heavy-impurity resonance, hybridization, and phonon spectral functions in $\langle \text{mml:math} \rangle$		
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#	ARTICLE	IF	CITATIONS
91	Effective One-Dimensional Coupling in the Highly Frustrated Square-Lattice Itinerant Magnet <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">CaCo_2</math> Physical Review Letters, 2017, 119, 147201.	2.9	25
92	A new x-ray diffraction method for structural investigations of solid-liquid interfaces. Review of Scientific Instruments, 1997, 68, 4169-4176.	0.6	24
93	The magnetic structure of orthorhombic ErNi ₂ B ₂ C. Europhysics Letters, 1999, 47, 352-357.	0.7	24
94	Glassy Phonon Heralds a Strain Glass State in a Shape Memory Alloy. Physical Review Letters, 2018, 120, 245701.	2.9	24
95	Resonant magnetic X-ray scattering from ultrathin Ho metal films down to a few atomic layers. Journal of Electron Spectroscopy and Related Phenomena, 2001, 114-116, 953-957.	0.8	23
96	Bose-Einstein condensation in liquid He near the liquid-solid transition line. Physical Review B, 2012, 85, .	1.1	23
97	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in SrCo ₂ Fe ₂ As ₂ Physical Review Letters, 2019, 122, 117204.	2.9	23
98	The Spallation Neutron Source: A Powerful Tool for Materials Research. AIP Conference Proceedings, 2005, .	0.3	22
99	Effects of temperature and pressure on phonons in FeSi _{1-x} Al _x Physical Review B, 2013, 87, .	1.1	21
100	Observation of High-Frequency Transverse Phonons in Metallic Glasses. Physical Review Letters, 2020, 124, 225902.	2.9	20
101	Effects of composition, temperature, and magnetism on phonons in bcc Fe-V alloys. Physical Review B, 2010, 82, .	1.1	19
102	Lattice vibrations boost demagnetization entropy in a shape-memory alloy. Physical Review B, 2015, 92, .	1.1	19
103	Electron-phonon coupling and thermal transport in the thermoelectric compound Mo ₃ Sn Physical Review B, 2015, 92, .	1.1	19
104	Lattice dynamics and thermal transport in multiferroic CuCrO ₂ . Physical Review B, 2017, 95, .	1.1	19
105	Neutron spin relaxation and inelastic neutron scattering investigations of the all-in/all-out antiferromagnet Nd ₂ O ₇ . Physical Review B, 2017, 95, .	1.1	19
106	Role of magnetic exchange energy on charge ordering in FeO <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">R_1R_3</math> Physical Review B, 2011, 84, .	1.1	18
107	Using Monte Carlo ray tracing simulations to model the quantum harmonic oscillator modes observed in uranium nitride. Physical Review B, 2014, 89, .	1.1	18

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109	Energy dependence of the spin excitation anisotropy in uniaxial-strained $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$. Physical Review B, 2015, 92, .	1.1	18
110	Pseudo-Goldstone Magnons in the Frustrated Heisenberg Helimagnet $\text{ZnCr}_2\text{P}_2\text{O}_{14}$. Physical Review X, 2017, 7, .	2.8	18
111	Temperature-dependent phonon lifetimes and thermal conductivity of silicon by inelastic neutron scattering and <i>ab initio</i> calculations. Physical Review B, 2020, 102, .	1.1	18
112	Neutron Scattering Measurements of Spatially Anisotropic Magnetic Exchange Interactions in Semiconducting $\text{K}_{0.85}\text{Fe}_{1.54}\text{Se}_2$ ($T_N = 280 \text{ K}$). Physical Review Letters, 2014, 112, 177002.	2.9	17
113	Characterization of plastic and boron carbide additive manufactured neutron collimators. Review of Scientific Instruments, 2017, 88, 123102.	0.6	17
114	Nonlinear propagating modes beyond the phonons in fluorite-structured crystals. Communications Physics, 2020, 3, .	2.0	17
115	Quantum oscillations of nitrogen atoms in uranium nitride. Nature Communications, 2012, 3, 1124.	5.8	16
116	Electronic structure and vibrational entropies of fcc Au-Fe alloys. Physical Review B, 2013, 87, .	1.1	16
117	Phonon quarticity induced by changes in phonon-tracked hybridization during lattice expansion and its stabilization of rutile TiO_2 . Physical Review B, 2015, 92, .	1.1	16
118	<title>Diffraction and correlation spectroscopy with coherent x rays</title>. , 1997, , .		15
119	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.	1.2	15
120	Spiral Spin Liquid on a Honeycomb Lattice. Physical Review Letters, 2022, 128, .	2.9	15
121	Electron doping evolution of the magnetic excitations in NaFe_3S_4 . Weak coupling of pseudoacoustic phonons and magnon dynamics in the incommensurate spin-ladder compound $\text{Sr}_2\text{Cu}_3\text{O}_7$. Physical Review B, 2015, 92, .	1.1	14
122	Supersonic propagation of lattice energy by phasons in fresnoite. Nature Communications, 2018, 9, 1823.	5.8	14
123	Impact of anharmonicity on the vibrational entropy and specific heat of UO_2 . Physical Review Materials, 2019, 3, .	1.1	14
124	Role of the third dimension in searching for Majorana fermions in UO_2 via phonons. Physical Review Research, 2022, 4, .	1.3	13
125	Faceting of stepped silicon (113) surfaces: Self assembly of nanoscale gratings. Physica B: Condensed Matter, 1996, 221, 105-125.		13

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127	Spin excitations in BaFe_2As_2 observed by inelastic neutron scattering. Physical Review B, 2009, 80, .	1.84	13
128	Effects of chemical composition and B2 order on phonons in bcc Fe-Co alloys. Journal of Applied Physics, 2010, 108, .	1.1	13
129	Phonon scattering rates and atomic ordering in Ag_2S .		

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145	Robust antiferromagnetic spin waves across the metal-insulator transition in hole-doped BaMn_2O_7 . Physical Review B, 2017, 95, .		
146	Super-resolution energy spectra from neutron direct-geometry spectrometers. Review of Scientific Instruments, 2019, 90, 105109.	0.6	9
147	Lattice dynamics of the hybrid improper ferroelectrics Ca_2O_7 . Physical Review B, 2019, 100, .	1.1	9
148	Phonon spectrum of underdoped HgBa_2O_7 investigated by neutron scattering. Physical Review B, 2020, 101, .		
149	Temperature dependence of phonons in FeGe_2 . Physical Review Materials, 2018, 2, .	0.9	9
150	High-Q-resolution X-ray diffraction of ordered FeAl single crystals. Acta Crystallographica Section A: Foundations and Advances, 1995, 51, 746-753.	0.3	8
151	Speckle Structure in Small-Angle Coherent X-ray Scattering. Journal of Applied Crystallography, 1997, 30, 828-832.	1.9	8
152	Extracting source parameters from beam monitors on a chopper spectrometer. EPJ Web of Conferences, 2015, 83, 03001.	0.1	8
153	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor $\text{La}_8\text{Sr}_8\text{Cu}_8\text{O}_{48}$. Physical Review B, 2016, 93, .	1.1	8
154	Quasiparticle twist dynamics in non-symmorphic materials. Materials Today Physics, 2021, 21, 100548.	2.9	8
155	Controlling phonon lifetimes via sublattice disordering in AgBiO_3 . Physical Review Materials, 2020, 4, .		
156	Temperature-dependent lattice dynamics in iridium. Physical Review Materials, 2020, 4, .	0.9	8
157	The ARCS radial collimator. EPJ Web of Conferences, 2015, 83, 03014.	0.1	7
158	Spin excitations used to probe the nature of exchange coupling in the magnetically ordered ground state of Pr_2O_7 . Physical Review B, 2016, 94, .	1.1	7
159	Plaquette instability competing with bicollinear ground state in detwinned FeTe . Physical Review B, 2019, 100, .	1.1	7
160	Frustrated magnetic interactions in an $S=3/2$ bilayer honeycomb lattice compound $\text{Bi}_3\text{Mn}_4\text{O}_{12}(\text{NO}_3)$. Physical Review B, 2019, 100, .	1.1	7
161	Temporally decoherent and spatially coherent vibrations in metal halide perovskites. Physical Review B, 2020, 102, .	1.1	7
162	Remanence on microscopic and macroscopic scales in the reentrant spin glass $\text{Eu}_x\text{Sr}_{1-x}\text{S}$. Physical Review B, 1987, 36, 3956-3959.	1.1	6

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163	Small angle X-ray scattering from dynamic processes. <i>Current Opinion in Colloid and Interface Science</i> , 1998, 3, 305-311.	3.4	6
164	Inelastic neutron scattering study of phonon density of states in nanostructured Si _{1-x} Ge _x alloys. <i>Physical Review B</i> , 2012, 86, .	1.1	6
165	Thermoelectrics. <i>Physical Review B</i> , 2012, 86, .	1.1	6
166	Momentum and energy dependent resolution function of the ARCS neutron chopper spectrometer at high momentum transfer: Comparing simulation and experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 835, 34-41.	0.7	6
167	Thermal neutron scattering measurements and modeling of yttrium-hydrides for high temperature moderator applications. <i>Annals of Nuclear Energy</i> , 2021, 157, 108224.	0.9	6
168	Atomic pair distribution function analysis from the ARCS chopper spectrometer at the Spallation Neutron Source. <i>Journal of Applied Crystallography</i> , 2009, 42, 724-725.	1.9	5
169	Magnetic excitations in an S ₄ tetramer compound. <i>Physical Review B</i> , 2015, 92, .	1.1	5
170	Light atom quantum oscillations in UC and US. <i>Physical Review B</i> , 2016, 93, .	1.1	5
171	Doping evolution of spin fluctuations and their peculiar suppression at low temperatures in Ca(Fe _{1-x} Cox) ₂ As ₂ . <i>Physical Review B</i> , 2018, 97, .	1.1	5
172	Vibrational properties of uranium fluorides. <i>Physica B: Condensed Matter</i> , 2019, 570, 194-205.	1.3	5
173	Spin dynamics in antiferromagnetic oxypnictides and fluoropnictides: LaMnAsO, LaMnSbO, and BaMnAsF. <i>Physical Review B</i> , 2020, 101, .	1.1	5
174	Spin waves and Dirac magnons in a honeycomb-lattice zigzag antiferromagnet BaNi ₂ . <i>Physical Review B</i> , 2021, 104, .	1.1	5
175	Thermal expansion and phonon anharmonicity of cuprite studied by inelastic neutron scattering and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2022, 105, .	1.1	5
176	Phase behavior of Au and Pt surfaces. <i>Surface Science</i> , 1993, 287-288, 842-846.	0.8	4
177	Nonharmonic phonons in MgB ₂ at elevated temperatures. <i>Physical Review B</i> , 2011, 83, .	1.1	4
178	Comparison of FANS and ARCS incoherent inelastic neutron scattering measurements of hydrogen trapped at dislocations in deformed Pd. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 654, 522-526.	0.7	4
179	Ultrathin aluminum sample cans for single crystal inelastic neutron scattering. <i>Review of Scientific Instruments</i> , 2011, 82, 055117.	0.6	4
180	Direct measurement of the spin gap in a quasi-one-dimensional clinopyroxene: NaTiSi ₂ O ₆ . <i>Physical Review B</i> , 2014, 90, .	1.1	4

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181	Three-mode coupling interference patterns in the dynamic structure factor of a relaxor ferroelectric. <i>Physical Review B</i> , 2016, 94, .	1.1	4
182	Strong local moment antiferromagnetic spin fluctuations in V-doped LiFeAs. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	4
183	Neutron thermalization in nuclear graphite: A modern story of a classic moderator. <i>Annals of Nuclear Energy</i> , 2021, 161, 108437.	0.9	4
184	Real-Space Local Dynamics of Molten Inorganic Salts Using Van Hove Correlation Function. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5956-5962.	2.1	4
185	Optimizing Fermi-chopper spectrometers for the Spallation Neutron Source. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s1595-s1597.	1.1	3
186	Dynamics of Water Confined on the Surface of Titania and Cassiterite Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1352, 47.	0.1	3
187	Thermally Driven Electronic Topological Transition in FeTi. <i>Physical Review Letters</i> , 2016, 117, 076402.	2.9	3
188	Antiferromagnetic ordering and possible lattice response to dynamic uranium valence in U3O8. <i>Physical Review B</i> , 2021, 103, .	1.1	3
189	Giant low-temperature anharmonicity in silicon nanocrystals. <i>Physical Review Materials</i> , 2020, 4, .	0.9	3
190	1D X-ray speckle patterns: A novel probe of interfacial disorder in semiconductor superlattices. <i>Solid-State Electronics</i> , 1996, 40, 531-535.	0.8	2
191	The thermal focusing mirror of the ESRF Troika beam line:. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 305-308.	0.7	2
192	Quantitative structure refinement from the ARCS chopper spectrometer. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012080.	0.3	2
193	Phonon localization transition in relaxor ferroelectric PZN-5%PT. <i>Applied Physics Letters</i> , 2017, 110, 132901.	1.5	2
194	Correspondence: Reply to "Phantom phonon localization in relaxors". <i>Nature Communications</i> , 2017, 8, 1936.	5.8	2
195	Nonequilibrium Behavior near a First-Order Phase Transition: Effects Due to Coupled Degrees of Freedom. <i>Europhysics Letters</i> , 1988, 7, 87-92.	0.7	1
196	Correlation spectroscopy with coherent X-rays: A new probe for the study of slow dynamics. , 1999, , .		1
197	Phonon density of states of model ferroelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1262, 1.	0.1	1
198	Response to comment on "Giant electromechanical coupling of relaxor ferroelectrics controlled by polar nanoregion vibrations". <i>Science Advances</i> , 2019, 5, eaaw4367.	4.7	1

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199	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. Physical Review B, 2019, 99, .	1.1	1
200	Prediction and observation of intermodulation sidebands from anharmonic phonons in NaBr. Physical Review B, 2021, 103, .	1.1	1
201	Magnetic order and fluctuations in the quasi-two-dimensional planar magnet Sr(Co $1\hat{a}^{\sim}$ xNi x) 2 As 2 . Physical Review B, 2020, 102, .	1.1	1
202	Matryoshka phonon twinning in $\hat{1}\pm$ -GaN. Communications Physics, 2021, 4, .	2.0	1
203	Lattice and magnetic dynamics in the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{YVO} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mq} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ Mott insulator studied by neutron scattering and first-principles calculations. Physical Review B, 2022, 105, .	1.1	1
204	Dynamics of phase transitions in $\text{YVO} \langle \text{mml:sub} \rangle 3 \langle \text{mml:sub} \rangle$ investigated via inelastic neutron scattering and first-principles calculations. Neutron News, 0, , 1-3.	0.1	1
205	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, .	3.3	1
206	Chiral melting of the Si(113) (3 Å $^{-1}$ – 1) reconstruction. Physica B: Condensed Matter, 1996, 221, 126-133.	1.3	0
207	Casting Technique for the Fabrication of Pinholes for X-ray Radiation. Journal of Synchrotron Radiation, 1997, 4, 64-66.	1.0	0
208	Electronic time-focusing of pulsed-source neutron chopper data: binning to minimize effects of proton pulse and chopper opening time variations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 221-228.	0.7	0
209	Frustration-induced diffusive scattering anomaly and dimension change in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{FeGe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle$ Physical Review B, 2022, 106, .		
210	Suppressed thermal conductivity in hyperstoichiometric uranium dioxide controlled by phonon lifetimes. Applied Physics Letters, 2022, 121, 012202.	1.5	0