Alexander I Kolesnikov

List of Publications by Year
in descending order

329	9,520	76196	66788
papers	citations	40 h-index	78 g-index

336	336	336	9773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	iCaRL: Incremental Classifier and Representation Learning. , 2017, , .		1,376
2	Role of Surface Structure on Li-Ion Energy Storage Capacity of Two-Dimensional Transition-Metal Carbides. Journal of the American Chemical Society, 2014, 136, 6385-6394.	6.6	1,164
3	Anomalously Soft Dynamics of Water in a Nanotube: A Revelation of Nanoscale Confinement. Physical Review Letters, 2004, 93, 035503.	2.9	486
4	Seed, Expand and Constrain: Three Principles for Weakly-Supervised Image Segmentation. Lecture Notes in Computer Science, 2016, , 695-711.	1.0	311
5	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). Nanoscale, 2016, 8, 9128-9133.	2.8	225
6	SEQUOIA: A Newly Operating Chopper Spectrometer at the SNS. Journal of Physics: Conference Series, 2010, 251, 012058.	0.3	191
7	Topological Spin Excitations in Honeycomb Ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CrI</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review X, 2018, 8, .	2.8	188
8	Phonon Density of States inMgB2. Physical Review Letters, 2001, 87, 017005.	2.9	183
9	Dynamics of water confined in single- and double-wall carbon nanotubes. Journal of Chemical Physics, 2006, 124, 194703.	1.2	117
10	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
11	Simulation of Inelastic Neutron Scattering Spectra Using OCLIMAX. Journal of Chemical Theory and Computation, 2019, 15, 1974-1982.	2.3	95
12	Complexity of Intercalation in MXenes: Destabilization of Urea by Two-Dimensional Titanium Carbide. Journal of the American Chemical Society, 2018, 140, 10305-10314.	6.6	93
13	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. Physical Review Letters, 2016, 116, 167802.	2.9	92
14	Large phonon band gap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and the vibrational signatures of ferroelectricity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi>	1.1	88
15	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. ACS Energy Letters, 2019, 4, 2805-2812.	8.8	88
16	Anomalous Behavior of Proton Zero Point Motion in Water Confined in Carbon Nanotubes. Physical Review Letters, 2006, 97, 247801.	2.9	87
17	Vibrational dynamics of amorphous ice. Physical Review B, 1999, 59, 3569-3578.	1.1	80
18	Neutron diffraction investigation of the dhcp and hcp iron hydrides and deuterides. Journal of Alloys and Compounds, 1998, 264, 214-222.	2.8	78

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19	Neutron spectroscopic investigation of dynamics of water ice. Journal of Molecular Liquids, 2002, 100, 1-39.	2.3	77
20	Reduced-search dynamic programming for approximation of polygonal curves. Pattern Recognition Letters, 2003, 24, 2243-2254.	2.6	72
21	Quantum Spin Ice Dynamics in the Dipole-Octupole Pyrochlore Magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ce</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Zr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2019, 122, 187201.	2.9	70
22	Observation of a dynamic crossover in water confined in double-wall carbon nanotubes. Physical Review E, 2007, 76, 021505.	0.8	68
23	The cold neutron chopper spectrometer at the Spallation Neutron Sourceâ€”A review of the first 8 years of operation. Review of Scientific Instruments, 2016, 87, 093902.	0.6	68
24	Magnetic anisotropy in ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 101, .	1.1	68
25	Quasielastic and inelastic neutron scattering investigation of fragile-to-strong crossover in deeply supercooled water confined in nanoporous silica matrices. Journal of Physics Condensed Matter, 2006, 18, S2261-S2284.	0.7	67
26	Structure and Stability of SnO₂ Nanocrystals and Surface-Bound Water Species. Journal of the American Chemical Society, 2013, 135, 6885-6895.	6.6	67
27	Neutron spectroscopic study of crystalline electric field excitations in stoichiometric and lightly stuffed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	59
28	Anomalously large isotope effect in the glass transition of water. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17402-17407.	3.3	57
29	Structure and properties of densified silica glass: characterizing the order within disorder. NPG Asia Materials, 2020, 12, .	3.8	57
30	Evidence for an anomalous quantum state of protons in nanoconfined water. Physical Review B, 2012, 85, .	1.1	56
31	High-pressure hydrides of iron and its alloys. Journal of Physics Condensed Matter, 2002, 14, 6427-6445.	0.7	55
32	Dynamics of Water Confined on a TiO₂ (Anatase) Surface. Journal of Physical Chemistry A, 2007, 111, 12584-12588.	1.1	54
33	Neutron spectroscopy of MnH0.86, NiH1.05, PdH0.99 and harmonic behaviour of their optical phonons. Physica B: Condensed Matter, 1991, 174, 257-261.	1.3	52
34	Estimating the number of clusters in a numerical data set via quantization error modeling. Pattern Recognition, 2015, 48, 941-952.	5.1	51
35	Polygonal approximation of closed discrete curves. Pattern Recognition, 2007, 40, 1282-1293.	5.1	49
36	Inelastic Neutron Scattering Study of Confined Surface Water on Rutile Nanoparticles. Journal of Physical Chemistry A, 2009, 113, 2796-2800.	1.1	49

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37	Vibrational Density of States of Strongly H-Bonded Interfacial Water: Insights from Inelastic Neutron Scattering and Theory. Journal of Physical Chemistry C, 2014, 118, 10805-10813.	1.5	48
38	Strong anisotropy in the inelastic neutron scattering from PdH at high energy transfer. Physical Review B, 1998, 58, 2591-2595.	1.1	47
39	Inelastic neutron scattering studies of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>YFeO</mml:mtext><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	46
40	Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. Physical Review Materials, 2017, 1, .	0.9	45
41	Inelastic incoherent neutron scattering study of D2O and H2O ice VIII in the range 2â€“140 meV. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 168, 308-312.	0.9	43
42	Negative thermal expansion in cubicZrMo2O8: Inelastic neutron scattering and lattice dynamical studies. Physical Review B, 2004, 70, .	1.1	41
43	Data reduction of large vector graphics. Pattern Recognition, 2005, 38, 381-394.	5.1	40
44	Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. Journal of Physical Chemistry C, 2016, 120, 8730-8741.	1.5	40
45	Spin Pseudogap in Ni-Doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrCuO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 111, 067204.	2.9	39
46	The quantum nature of the OH stretching mode in ice and water probed by neutron scattering experiments. Journal of Chemical Physics, 2013, 139, 074504.	1.2	39
47	Spin-orbit coupling controlled ground state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2016, 93, .	1.1	38
48	Magnetic Field Effect on Topological Spin Excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CrI</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review X, 2021, 11, .	2.8	37
49	Neutron Scattering Studies of Vapor Deposited Amorphous Ice. Physical Review Letters, 1997, 79, 1869-1872.	2.9	36
50	The Shortest Symmetrical Oâ‹¯HÂ·Â·Â·O Hydrogen Bond Has a Low-Barrier Double-Well Potential. Journal of Physical Chemistry B, 2004, 108, 6922-6926.	1.2	36
51	Fast Proton Hopping Detection in Ice I_h by Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry C, 2011, 115, 10245-10251.	1.5	35
52	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaMn</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Spin waves on a frustrated antiferromagnetic honeycomb lattice. Physical Review B, 2015, 91, .	1.1	35
53	Magnetic Excitations of the Classical Spin Liquid <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MgCr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 122, 097201.	2.9	34
54	Neutron scattering studies of ordered gamma -ZrD. Journal of Physics Condensed Matter, 1994, 6, 8977-8988.	0.7	33

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55	Quasiparticle-continuum level repulsion in a quantum magnet. Nature Physics, 2016, 12, 224-229.	6.5	33
56	Topological magnon bands in a room-temperature kagome magnet. Physical Review B, 2020, 101, .	1.1	32
57	Neutron spectroscopy of fullerite hydrogenated under high pressure; evidence for interstitial molecular hydrogen. Journal of Physics Condensed Matter, 1997, 9, 2831-2838.	0.7	31
58	Decoupled spin dynamics in the rare-earth orthoferrite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>YbFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></r : Evolution of magnetic excitations through the spin-reorientation transition. Physical Review B, 2018, 98, .	1.1	31
59	Hybridized quadrupolar excitations in the spin-anisotropic frustrated magnet FeI2. Nature Physics, 2021, 17, 467-472.	6.5	30
60	Inelastic neutron scattering and lattice dynamical calculation of negative thermal expansion inHfW2O8. Physical Review B, 2003, 68, .	1.1	29
61	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. Carbon, 2012, 50, 1071-1082.	5.4	29
62	Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089.	1.0	29
63	Lossless compression of map contours by context tree modeling of chain codes. Pattern Recognition, 2007, 40, 944-952.	5.1	28
64	Phase transitions of interfacial water at 165 and 240â€‰K. Connections to bulk water physics and protein dynamics. European Physical Journal: Special Topics, 2007, 141, 227-233.	1.2	28
65	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. Physical Review E, 2013, 88, 052306.	0.8	28
66	Strong Anisotropic Dynamics of Ultra-Confined Water. Journal of Physical Chemistry B, 2014, 118, 13414-13419.	1.2	28
67	Neutron spectroscopy of TiH0.74after high pressure treatment. Journal of Physics Condensed Matter, 1991, 3, 5927-5936.	0.7	27
68	Multilayer graphane synthesized under high hydrogen pressure. Carbon, 2016, 100, 465-473.	5.4	27
69	Magnetic ground state of the Ising-like antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>DyScO</mml:mi><mml:mn>3</mml:mn></mml:msub> Physical Review B, 2017, 96, .	1.1	27
70	Anomalously soft dynamics of water in carbon nanotubes. Physica B: Condensed Matter, 2006, 385-386, 272-274.	1.3	26
71	Effect of chemical pressure on the crystal electric field states of erbium pyrochlore magnets. Physical Review B, 2018, 97, .	1.1	26
72	Probing Molecular Interactions at MXeneâ€“Organic Heterointerfaces. Chemistry of Materials, 2020, 32, 7884-7894.	3.2	26

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73	Magnetically driven phonon instability enables the metalâ€“insulator transition in h-FeS. Nature Physics, 2020, 16, 669-675.	6.5	26
74	Unusual Exchange Couplings and Intermediate Temperature Weyl State in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Co</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow mathvariant="normal">S</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2021, 127, 117201.	2.9	26
75	Magnetic exchange interactions in the van der Waals layered antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mn</mml:mi><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi>Se</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 103, .	1.1	26
76	Neutron scattering studies of the vibrational spectrum of high-density amorphous ice in comparison with ice Ih and VI. Journal of Physics Condensed Matter, 1994, 6, 375-382.	0.7	25
77	Crystal structure and lattice dynamics of high-pressure scandium trihydride. Physical Review B, 2006, 73, .	1.1	25
78	Spin-orbit coupling control of anisotropy, ground state and frustration in 5d2 Sr2MgOsO6. Scientific Reports, 2016, 6, 32462.	1.6	25
79	Multiphonon contributions in inelastic neutron scattering spectra of ice. Physica B: Condensed Matter, 1997, 234-236, 34-36.	1.3	24
80	Quasielastic neutron scattering study of water confined in carbon nanopores. Europhysics Letters, 2011, 95, 56001.	0.7	24
81	Neutron-Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml:mn>1.905</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2014, 113, 177002.	2.9	24
82	Boson Peak in Deeply Cooled Confined Water: A Possible Way to Explore the Existence of the Liquid-to-Liquid Transition in Water. Physical Review Letters, 2014, 112, 237802.	2.9	24
83	Neutron-Scattering Studies of Ice Prepared by Different Thermobaric Treatments. Journal of Physical Chemistry B, 1997, 101, 6082-6086.	1.2	23
84	Structure and dynamics of water confined in single-wall carbon nanotubes. Journal of Physics Condensed Matter, 2006, 18, S2321-S2334.	0.7	22
85	Crystal structure and lattice dynamics of chromium hydrides. Journal of Alloys and Compounds, 2007, 430, 22-28.	2.8	22
86	Neutron spectroscopy of manganese hydride. Solid State Communications, 2000, 113, 569-572.	0.9	21
87	Lossless Compression of Color Map Images by Context Tree Modeling. IEEE Transactions on Image Processing, 2007, 16, 114-120.	6.0	21
88	Quantum effects in the dynamics of deeply supercooled water. Physical Review E, 2015, 91, 022312.	0.8	21
89	Low-energy antiferromagnetic spin fluctuations limit the coherent superconducting gap in cuprates. Physical Review B, 2018, 98, .	1.1	21
90	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. Physical Review Materials, 2017, 1, .	0.9	21

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91	Further evidence of a liquidâ€“liquid transition in interfacial water. Journal of Physics Condensed Matter, 2006, 18, S2299-S2304.	0.7	20
92	Dynamic Crossover Phenomenon in Confined Supercooled Water and Its Relation to the Existence of a Liquid-Liquid Critical Point in Water. AIP Conference Proceedings, 2008, , .	0.3	20
93	Ab initio simulation of hydrogen bonding in ices under ultra-high pressure. Journal of Chemical Physics, 2012, 137, 204507.	1.2	20
94	ISE-bounded polygonal approximation of digital curves. Pattern Recognition Letters, 2012, 33, 1329-1337.	2.6	20
95	Effects of Confinement and Pressure on the Vibrational Behavior of Nano-Confined Propane. Journal of Physical Chemistry A, 2018, 122, 6736-6745.	1.1	20
96	Magnetic excitations in the quasi-two-dimensional ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>3</mml:mn> measured with inelastic neutron scattering. Physical Review B, 2019, 99, .	1.1	20
97	Spin Waves and Magnetic Exchange Hamiltonian in CrSBr. Advanced Science, 2022, 9, .	5.6	20
98	Inelastic neutron scattering study of water in the subcritical and supercritical region. Physical Review B, 2000, 62, 5492-5495.	1.1	19
99	Conversion method of powder inelastic scattering data for one-dimensional systems. Applied Physics Letters, 2009, 94, 092502.	1.5	19
100	Influence of Particle Size and Water Coverage on the Thermodynamic Properties of Water Confined on the Surface of SnO₂ Cassiterite Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 21105-21112.	1.5	19
101	A real-time neutron diffraction study of phase transitions in the Ti-D system after high-pressure treatment. Journal of Physics Condensed Matter, 1993, 5, 5045-5058.	0.7	18
102	Neutron spectroscopy of fullerite hydrogenated under high pressures. Physica B: Condensed Matter, 1999, 263-264, 436-438.	1.3	18
103	Lattice dynamics ofÎ±â^'AlH3andÎ±â^'AlD3by inelastic neutron scattering: High-energy band of optical bond-stretching vibrations. Physical Review B, 2007, 76, .	1.1	18
104	Neutron scattering study of magnetic excitations in a 3<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-based double-perovskite Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>FeReO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mml:	1.1	18
105	Origin of the charge gap in LaMnPO. Physical Review B, 2014, 90, .	1.1	18
106	Variance-preserving mosaicing of multiple satellite images for forest parameter estimation: Radiometric normalization. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 105, 120-127.	4.9	18
107	Weakened hydrogen bond interactions in the high pressure phase of ice: Ice II. Journal of Chemical Physics, 1998, 109, 235-240.	1.2	17
108	Inelastic neutron scattering, lattice dynamics, and synchrotron x-ray diffraction study ofFePO4. Physical Review B, 2002, 66, .	1.1	17

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109	Energetics of single-wall carbon nanotubes as revealed by calorimetry and neutron scattering. Carbon, 2011, 49, 949-954.	5.4	17
110	Quantum Coherence and Temperature Dependence of the Anomalous State of Nanoconfined Water in Carbon Nanotubes. Journal of Physical Chemistry Letters, 2016, 7, 4433-4437.	2.1	17
111	Parallel spin stripes and their coexistence with superconducting ground states at optimal and high doping in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>1.6< Physical Review Research, 2021, 3, .	1.3	17
112	Inelastic neutron scattering study of ordered gamma -ZrH. Journal of Physics Condensed Matter, 1994, 6, 8989-9000.	0.7	16
113	Neutron diffraction study of bulk amorphous Zn41Sb59. Journal of Non-Crystalline Solids, 1994, 176, 263-270.	1.5	16
114	Neutron scattering studies of -CoH. Journal of Alloys and Compounds, 2005, 404-406, 73-76.	2.8	16
115	The thermodynamic properties of hydrated Î³-Al2O3 nanoparticles. Journal of Chemical Physics, 2013, 139, 244705.	1.2	16
116	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl₃. 2D Materials, 2022, 9, 015006.	2.0	16
117	Neutron spectroscopy of ice VIII in the region of 20â€“500 meV. Physical Review B, 1999, 59, 9088-9094.	1.1	15
118	Neutron scattering study of bulk amorphous GaSb. Journal of Non-Crystalline Solids, 1999, 244, 250-259.	1.5	15
119	Vibrational dynamics of amorphous beryllium hydride and lithium beryllium hydrides. Journal of Chemical Physics, 2008, 128, 134512.	1.2	15
120	Origin of magnetic excitation gap in double perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2< Physical Review B, 2018, 98, .	1.1	15
121	Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. Physica B: Condensed Matter, 1995, 213-214, 474-476.	1.3	14
122	Neutron diffraction investigation of Î³ manganese hydride. Solid State Communications, 1998, 107, 787-790.	0.9	14
123	Neutron scattering studies of the structure and lattice dynamics of a solid solution of hydrogen in -manganese. Journal of Physics Condensed Matter, 1998, 10, 5255-5266.	0.7	14
124	The vibrational spectrum and giant tunnelling effect of hydrogen dissolved in Î±-Mn. Physica B: Condensed Matter, 1999, 263-264, 421-423.	1.3	14
125	Neutron scattering and scaling behavior in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>URu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2010, 82, .	1.1	14
126	Water dynamics in a lithium chloride aqueous solution probed by Brillouin neutron and x-ray scattering. Journal of Physics Condensed Matter, 2012, 24, 064102.	0.7	14

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127	Inelastic neutron scattering, Raman and DFT investigations of the adsorption of phenanthrenequinone on onion-like carbon. Carbon, 2013, 52, 150-157.	5.4	14
128	Simulation of Inelastic Neutron Scattering Spectra Directly from Molecular Dynamics Trajectories. Journal of Chemical Theory and Computation, 2020, 16, 7702-7708.	2.3	14
129	Collective excitations in the tetravalent lanthanide honeycomb antiferromagnet Na2PrO3. Physical Review B, 2021, 103, .	1.1	14
130	Improving Weakly-Supervised Object Localization By Micro-Annotation. , 2016, , .		14
131	Neutron scattering study and lattice dynamical simulation of clathrate H2O+He. Physica B: Condensed Matter, 1999, 263-264, 429-431.	1.3	13
132	Structure and dynamics of concentrated aqueous solutions of aluminium chloride, beryllium chloride and aluminium bromide: Raman, inelastic neutron scattering and x-ray diffraction results. Journal of Physics Condensed Matter, 2004, 16, 6343-6364.	0.7	13
133	Structure of water in mesoporous organosilica by calorimetry and inelastic neutron scattering. Surface Science, 2009, 603, 71-77.	0.8	13
134	Neutron spectroscopy of magnesium dihydride. Journal of Alloys and Compounds, 2011, 509, S599-S603.	2.8	13
135	Pressure Effect on the Boson Peak in Deeply Cooled Confined Water: Evidence of a Liquid-Liquid Transition. Physical Review Letters, 2015, 115, 235701.	2.9	13
136	LiDAR-Assisted Multi-Source Program (LAMP) for Measuring Above Ground Biomass and Forest Carbon. Remote Sensing, 2017, 9, 154.	1.8	13
137	Laser-ultrasonic temperature mapping of an acousto-optic dispersive delay line. NDT and E International, 2018, 98, 171-176.	1.7	13
138	Dual Nature of Magnetism in a Uranium Heavy-Fermion System. Physical Review Letters, 2018, 121, 057201.	2.9	13
139	Effect of crystal structure of manganese dioxide on response for electrolyte of a hydrogen sensor operative at room temperature. Sensors and Actuators B: Chemical, 2013, 183, 641-647.	4.0	12
140	Charge-Dependent Dynamics of a Polyelectrolyte Dendrimer and Its Correlation with Invasive Water. Journal of the American Chemical Society, 2013, 135, 5111-5117.	6.6	12
141	Measurement of proton momentum distributions using a direct geometry instrument. Journal of Physics: Conference Series, 2014, 571, 012007.	0.3	12
142	Magnetic interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PdCrO</mml:mi><mml:mn>2</mml:mn></mml:msub></m and their effects on its magnetic structure. Physical Review B, 2018, 98, .	1.1	12
143	Large Positive Zero-Field Splitting in the Cluster Magnet Ba₃CeRu₂O₉. Journal of the American Chemical Society, 2019, 141, 9928-9936.	6.6	12
144	Origin of Two Distinct Peaks of Ice in the THz Region and Its Application for Natural Gas Hydrate Dissociation. Journal of Physical Chemistry C, 2020, 124, 1165-1170.	1.5	12

#	Article	IF	Citations
145	Unconventional Hund metal in a weak itinerant ferromagnet. Nature Communications, 2020, 11, 3076.	5.8	12
146	Neutron spectroscopy of aluminium trihydride. Journal of Physics Condensed Matter, 1996, 8, 2529-2538.	0.7	11
147	Carbon-hydrogen bonding in near-frictionless carbon. Applied Physics Letters, 2008, 93, .	1.5	11
148	Neutron spectroscopy of H impurities in PdD: Covibrations of the H and D atoms. Physical Review B, 2009, 80, .	1.1	11
149	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(MeIm)2. Journal of Chemical Thermodynamics, 2019, 136, 160-169.	1.0	11
150	Hydrogen Dynamics in Supercritical Water Probed by Neutron Scattering and Computer Simulations. Journal of Physical Chemistry Letters, 2020, 11, 9461-9467.	2.1	11
151	Vibrational Behavior of Water Adsorbed on Forsterite (Mg₂SiO₄) Surfaces. ACS Earth and Space Chemistry, 2020, 4, 1050-1063.	1.2	11
152	Structure and lattice dynamics of titanium hydrides due to thermobaric treatment. High Pressure Research, 1995, 14, 91-100.	0.4	10
153	Neutron-diffraction study of bulk amorphousAl32Ge68alloy. Physical Review B, 1999, 60, 12681-12686.	1.1	10
154	Neutron spectroscopy of high-density amorphous ice. Physica B: Condensed Matter, 1999, 263-264, 650-652.	1.3	10
155	Lattice dynamics of high-pressure hydrides of the group VIâ€“VIII transition metals. Physica B: Condensed Matter, 2002, 316-317, 158-161.	1.3	10
156	Experimental Observations of Waterâ'Framework Interactions in a Hydrated Microporous Aluminum Phosphate. Journal of Physical Chemistry B, 2005, 109, 4464-4469.	1.2	10
157	Heat capacity of Î±-AlH₃and Î±-AlD₃at temperatures up to 1000 K. Journal of Physics Condensed Matter, 2008, 20, 275204.	0.7	10
158	Crystallization in heat-treated fluorochlorozirconate glasses. Journal of Physics Condensed Matter, 2009, 21, 375103.	0.7	10
159	Kondo behavior, ferromagnetic correlations, and crystal fields in the heavy-fermion compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ce</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML"		

#	Article	IF	Citations
163	Effect of fine-tuning pore structures on the dynamics of confined water. Journal of Chemical Physics, 2019, 150, 204706.	1.2	10
164	Optical Properties of Single-Crystal Germanium in the THz Range. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	10
165	Anisotropic magnon damping by zero-temperature quantum fluctuations in ferromagnetic CrGeTe3. Nature Communications, 2022, 13, .	5.8	10
166	Strong anharmonic H(D) vibrations in the Î´-phase of titanium hydride: observation of bound multiphonon states. Physica B: Condensed Matter, 1992, 180-181, 284-286.	1.3	9
167	Neutron scattering studies of the structure and dynamics of the PdCu-H ordered phase produced under a high hydrogen pressure. Journal of Physics Condensed Matter, 1994, 6, 9001-9008.	0.7	9
168	Structure and dynamics of different phases of the superprotonic conductor CsHSO4. Physica B: Condensed Matter, 1995, 213-214, 1034-1036.	1.3	9
169	Bulk Amorphous Gaï£¿Sb Semiconductors Prepared by Thermobaric Treatment: Formation and Properties. Physica Status Solidi (B): Basic Research, 1996, 198, 491-496.	0.7	9
170	Polygonal Approximation of Closed Contours. Lecture Notes in Computer Science, 2003, , 778-785.	1.0	9
171	Structural defects in germanium single crystals. Journal of Surface Investigation, 2010, 4, 994-997.	0.1	9
172	Spin-phonon coupling and high-pressure phase transitions of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>R</mml:mi><mml:mi>Mn</mml:mi><mml:msub><mml:m mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>(<mml:math) Tj ETQq0 0 0 rgBT /O	1.1	9
173	Spin pseudogap in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml chain material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:	1.1	9
174	Thermal scattering law of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mfenced open="(") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Annals of Nuclear Energy, 2018, 120, 778-787.	0.9	9
175	Low rotational barriers for the most dynamically active methyl groups in the proposed antiviral drugs for treatment of SARS-CoV-2, apilimod and tetrandrine. Chemical Physics Letters, 2021, 777, 138727.	1.2	9
176	Realization of the orbital-selective Mott state at the molecular level in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:m mathvariant="normal">O</mml:mi><mml:mn>9</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2020, 4, .	0.9	9
177	Lattice dynamics of high-pressure hydrides studied by inelastic neutron scattering. Journal of Alloys and Compounds, 2022, 905, 164208.	2.8	9
178	Hydrogen vibrations in H x YBa 2 Cu 3 O 7 superconducting ceramics. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1369-1370.	0.6	8
179	Lattice Dynamical Calculations of Ice VIII. Journal of Physical Chemistry B, 1997, 101, 6087-6089.	1.2	8
180	Inelastic neutron scattering investigation of Greenland ices. Physica B: Condensed Matter, 2000, 276-278, 282-283.	1.3	8

#	Article	IF	Citations
181	Anisotropy in the inelastic neutron scattering from fcc NiH. Europhysics Letters, 2000, 51, 140-146.	0.7	8
182	Optical transparency of crystalline germanium. Journal of Optical Technology (A Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	0.2	8
183	Origins of isotopomeric polymorphism. Isotopes in Environmental and Health Studies, 2006, 42, 271-277.	0.5	8
184	Crystal field excitations in the singlet ground state compound Pr3In. Journal of Applied Physics, 2007, 101, 09D505.	1.1	8
185	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Tb</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbCo</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:m	1.1	8
186	Evolution of the phonon density of states of LaCoO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>over the spin state transition. Physical Review B, 2011, 83, .	1.1	8
187	Singlet-Triplet Excitations in the Unconventional Spin-Peierls TiOBr Compound. Physical Review Letters, 2011, 106, 117401.	2.9	8
188	Segmentation and multi-model approximation of digital curves. Pattern Recognition Letters, 2012, 33, 1171-1179.	2.6	8
189	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>La</mml:mtext><mml:mrow><mml:mn> Physical Review B, 2016, 93, .	1.1	8
190	Hydrogen mobility in the lightest reversible metal hydride, LiBeH3. Scientific Reports, 2017, 7, 16244.	1.6	8
191	Magnetic excitations of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mrow><m quantum spin chain in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>3</mml:mn></mml:m Physical Review B, 2018, 97, .	1.1	8
192	Neutron scattering study of tantalum dihydride. Physical Review B, 2020, 102, .	1.1	8
193	Effect of Hydration on the Molecular Dynamics of Hydroxychloroquine Sulfate. ACS Omega, 2020, 5, 21231-21240.	1.6	8
194	Harmonic Dynamics of Anthracene Crystal. Molecular Crystals and Liquid Crystals, 1984, 104, 207-230.	0.9	7
195	Inelastic neutron scattering study of the ordered Pd-Ag-H hydrides. Journal of Physics Condensed Matter, 1993, 5, 7075-7086.	0.7	7
196	Pressure effect on the hydrogen vibrations in Î³-TiH and Î³-ZrH. Journal of Physics Condensed Matter, 2000, 12, 4757-4765.	0.7	7
197	Neutron diffraction and reverse Monte Carlo study of bulk amorphousGa38Sb38Ge24alloys. Physical Review B, 2000, 62, 9372-9377.	1.1	7
198	The first observation of the boson peak from water vapour deposited amorphous ice. Physica B: Condensed Matter, 2002, 316-317, 493-496.	1.3	7

#	Article	IF	Citations
199	Incoherent inelastic neutron-scattering studies of the structure of water associated with DNA and gelatin. Canadian Journal of Physics, 2003, 81, 367-371.	0.4	7
200	Constrained piecewise linear approximation of digital curves. , 2008, , .		7
201	Fast algorithm for ISE-bounded polygonal approximation. , 2008, , .		7
202	Sensoring hydrogen gas concentration using electrolyte made of proton conductive manganese dioxide. Sensors and Actuators B: Chemical, 2011, 155, 893-896.	4.0	7
203	Unsupervised segmentation and approximation of digital curves with rate-distortion curve modeling. Pattern Recognition, 2014, 47, 623-633.	5.1	7
204	Decentralized Control of a Group of Homogeneous Vehicles in Obstructed Environment. Journal of Control Science and Engineering, 2016, 2016, 1-8.	0.8	7
205	Pressure effect on hydrogen tunneling and vibrational spectrum in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math>-Mn. Physical Review B, 2016, 94, .	1.1	7
206	Inelastic and deep inelastic neutron spectroscopy of water molecules under ultra-confinement. Journal of Physics: Conference Series, 2018, 1055, 012002.	0.3	7
207	Ice Ih revisited: No proton tunneling observed in a quasielastic neutron scattering experiment. Physical Review B, 2018, 98, .	1.1	7
208	Toward a better thermal scattering law of (C5O2H8)n: Inelastic neutron scattering and oClimaxâ€¯+â€¯NJOY2016. Annals of Nuclear Energy, 2019, 133, 425-430.	0.9	7
209	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
210	Studies of Mineralâ€“Water Surfaces. Neutron Scattering Applications and Techniques, 2009, , 235-256.	0.2	7
211	Elongation factor G with effector loop from elongation factor Tu is inactive in translocation. FEBS Letters, 2002, 514, 67-69.	1.3	6
212	Neutron-scattering characterization of nanostructured materials relevant to biotechnology. Nanotechnology, 2004, 15, S664-S671.	1.3	6
213	Measuring the light-attenuation coefficients of germanium and paratellurite crystals. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2005, 72, 564.	0.2	6
214	Electrochemical property of proton-conductive manganese dioxide for sensoring hydrogen gas concentration. Solid State Ionics, 2012, 225, 282-285.	1.3	6
215	Phase diagram and magnetic structures of the Co-bearing dugganites Pb₃TeCo₃A₂O₁₄(A = V, P). Journal of Physics Condensed Matter, 2013, 25, 246004.	0.7	6
216	Thermal Imaging and Conoscopic Studies of Working Acousto-optical Devices on the Base of Paratellurite. International Journal of Thermophysics, 2016, 37, 1.	1.0	6

#	Article	IF	Citations
217	Intermediate-valence state of the Sm and Eu in SmB₆and EuCu₂Si₂: neutron spectroscopy data and analysis. Journal of Physics Condensed Matter, 2018, 30, 055801.	0.7	6
218	Thermal neutron scattering measurements and modeling of yttrium-hydrides for high temperature moderator applications. Annals of Nuclear Energy, 2021, 157, 108224.	0.9	6
219	Closed-Form Approximate CRF Training for Scalable Image Segmentation. Lecture Notes in Computer Science, 2014, , 550-565.	1.0	6
220	Neutron scattering and specific heat study of AlGe and AlSi alloys quenched under high pressure. Journal of Physics Condensed Matter, 1993, 5, 4737-4748.	0.7	5
221	Hydrogen Interaction and Bound Multiphonon States in Vibrational Spectra of Titanium Hydrides*. Zeitschrift Fur Physikalische Chemie, 1993, 179, 335-342.	1.4	5
222	Lattice dynamics and effects of anharmonicity in different phases of caesium hydrogen sulphate. Journal of Physics Condensed Matter, 1994, 6, 5823-5832.	0.7	5
223	Neutron scattering studies of ordered PdCuH and PdAgH prepared under a high hydrogen pressure. High Pressure Research, 1995, 14, 81-89.	0.4	5
224	Neutron scattering study of a high-pressure polymeric phase. Journal of Physics Condensed Matter, 1996, 8, 10939-10949.	0.7	5
225	â€œIn situâ€•neutron scattering studies of ice under high pressure. High Pressure Research, 1999, 16, 187-199.	0.4	5
226	Neutron spectroscopy ofReH0.09. Physical Review B, 2001, 64, .	1.1	5
227	Dynamic magnetic susceptibility of Gd5Si2Ge2 and Gd4YSi1.9Ge2.1. Journal of Applied Physics, 2004, 95, 7207-7209.	1.1	5
228	Neutron spectroscopy study of single-walled carbon nanotubes hydrogenated under high pressure. Journal of Alloys and Compounds, 2007, 446-447, 389-392.	2.8	5
229	Minimum Description Length approximation of digital curves. , 2009, , .		5
230	Efficient Online Algorithms for the Polygonal Approximation of Trajectory Data. , 2011, , .		5
231	Combined inelastic neutron scattering and solid-state density functional theory study of dynamics of hydrogen atoms in muscovite 2M1. American Mineralogist, 2011, 96, 301-307.	0.9	5
232	Nonparametric polygonal and multimodel approximation of digital curves with Rate-Distortion curve modeling. , 2011, , .		5
233	Surface micromorphology of germanium single-crystal boules grown from melt. Journal of Surface Investigation, 2015, 9, 630-635.	0.1	5
234	Vibrational modes and quantum zero-point energy of hydrogen in ZrH0.0155 and ZrH2. Journal of Alloys and Compounds, 2020, 818, 152832.	2.8	5

#	Article	IF	Citations
235	Neutron scattering study of tantalum monohydride and monodeuteride. International Journal of Hydrogen Energy, 2021, 46, 20630-20639.	3.8	5
236	Neutron Scattering Investigation of Metastable Phases of Titanium Hydride after Quenching under High Pressure*. Zeitschrift Fur Physikalische Chemie, 1989, 163, 709-714.	1.4	4
237	Neutron spectroscopy of C60Hx quenched under hydrogen pressure. Physica B: Condensed Matter, 1997, 234-236, 10-12.	1.3	4
238	Bulk amorphous Zn41Sb59 and GaSb studied by neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 226-228, 448-452.	2.6	4
239	Inelastic neutron scattering study of water in the sub- and supercritical region. Physica B: Condensed Matter, 2000, 276-278, 444-445.	1.3	4
240	Giant tunnelling effect of hydrogen and deuterium in Î± manganese. Journal of Alloys and Compounds, 2002, 330-332, 462-466.	2.8	4
241	Optimal Encoding of Vector Data with Polygonal Approximation and Vertex Quantization. Lecture Notes in Computer Science, 2005, , 1186-1195.	1.0	4
242	Extraction of metals from natural waters: A neutron characterization of the nanostructured manganese-oxide-based adsorbents. Physica B: Condensed Matter, 2006, 385-386, 493-495.	1.3	4
243	Anharmonicity of optical hydrogen vibrations in RhH. Journal of Alloys and Compounds, 2007, 446-447, 508-511.	2.8	4
244	Approximation of digitized curves with cubic Bézier splines. , 2010, , .		4
245	Determination of the magnetic contribution to the heat capacity of cobalt oxide nanoparticles and the thermodynamic properties of the hydration layers. Journal of Physics Condensed Matter, 2011, 23, 205303.	0.7	4
246	Neutron scattering investigation of rhenium orbital ordering in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>3</mml:mn><mml:mi>d</mml:mi><mml:mo>â^'</mml:mo><mml:mn> double perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Ca</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2018, 98, .	1.1	4
247	Magnetic ground state and magnetic excitations in black dioptase <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>18</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	4
248	Methodology for Generating Covariance Data of Thermal Neutron Scattering Cross Sections. Nuclear Science and Engineering, 2021, 195, 13-32.	0.5	4
249	Freezing of a Disorder Induced Spin Liquid with Strong Quantum Fluctuations. Physical Review Letters, 2021, 127, 017201.	2.9	4
250	Ways to Minimize Volume (Weight) and Increase the Bearing Capacity of Rigid Pavement. Civil Engineering Journal (Iran), 2019, 5, 2495-2501.	1.2	4
251	Inelastic neutron scattering n amorphous and crystalline phases of Znî—¸Sb and Cdî—¸Sb systems produced by thermobaric treatments. Solid State Communications, 1991, 78, 331-334.	0.9	3
252	Phonon spectra of ordered PdCuH and PdAgH prepared under a high hydrogen pressure. Physica B: Condensed Matter, 1995, 213-214, 442-444.	1.3	3

#	Article	IF	Citations
253	Thermodynamic properties and structural features of water at normal and high pressures. Solid State Ionics, 2001, 145, 415-420.	1.3	3
254	Light scattering by single crystals of paratellurite and germanium. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.2	3
255	Distortion-constrained compression of vector maps. , 2007, , .		3
256	Inelastic neutron scattering study of the specific features of the phase transitions in (NH4)2WO2F4. Physics of the Solid State, 2009, 51, 2362-2366.	0.2	3
257	Dynamics of Water Confined on the Surface of Titania and Cassiterite Nanoparticles. Materials Research Society Symposia Proceedings, 2011, 1352, 47.	0.1	3
258	Search for the first-order liquid-to-liquid phase transition in low-temperature confined water by neutron scattering. AIP Conference Proceedings, 2013, , .	0.3	3
259	Combining Camera Relascope-Measured Field Plots and Multi-Seasonal Landsat 8 Imagery for Enhancing the Forest Inventory of Boreal Forests in Central Russia. Remote Sensing, 2018, 10, 1796.	1.8	3
260	A Three-Component Mathematical Model of a Single-Axis Accelerometer for Measuring Pitch and Roll Angles. Measurement Techniques, 2019, 62, 118-125.	0.2	3
261	New Insights about CuO Nanoparticles from Inelastic Neutron Scattering. Nanomaterials, 2019, 9, 312.	1.9	3
262	Study of Anharmonicity in Zirconium Hydrides Using Inelastic Neutron Scattering and Ab-Initio Computer Modeling. Inorganics, 2021, 9, 29.	1.2	3
263	Single-ion properties of the transverse-field Ising model material <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>CoNb</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2022, 105, .	1.1	3
264	Phonons and bound multiphonons in the Î³-phases of TiH and ZrH: Neutron spectroscopy studies. Physica B: Condensed Matter, 1995, 213-214, 445-447.	1.3	2
265	Liquid-like dynamical behaviour of water in silica gel at 5 K. Journal of Molecular Liquids, 2002, 96-97, 317-325.	2.3	2
266	Neutron-scattering studies of the phase transitions in high-pressure ices during annealing. Canadian Journal of Physics, 2003, 81, 401-407.	0.4	2
267	Defect hydrogen vibrations in various phases deuterium ice. Journal of Chemical Physics, 2003, 119, 3332-3335.	1.2	2
268	Inelastic neutron scattering and lattice dynamics of GaPO4. Pramana - Journal of Physics, 2004, 63, 405-408.	0.9	2
269	Inelastic neutron scattering and lattice dynamics studies of AlPO4 and GaPO4. Physica B: Condensed Matter, 2006, 385-386, 147-149.	1.3	2
270	Low-energy neutron vibrational spectra of high pressure phases of ice. Journal of Neutron Research, 2006, 14, 325-331.	0.4	2

#	Article	IF	Citations
271	Inelastic neutron scattering and DFT study of 2-amino-3-hydroxymethyl-1,3-propane diol (TRIS). Chemical Physics, 2007, 340, 245-259.	0.9	2
272	Theoretical investigation of the vibrational properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BeH</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms	1.1	2
273	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Li</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub Physical Review B, 2009, 80, .	0.1	2
274	Refinement of the crystal structure of the high-temperature phase G 0 in (NH4)2WO2F4 (powder, X-ray,) Tj ETQq1 1 0.784314 rgBT /		2
275	Neutron Scattering Study on f-Electron States in PrCu₄Au. , 2014, , .		2
276	Terahertz image processing for the skin cancer diagnostic. , 2014, , .		2
277	WangetÂal.Reply:. Physical Review Letters, 2015, 115, 149802.	2.9	2
278	Analysis of the time-of-flight neutron scattering cross-section data for light water measured at the SEQUOIA spectrometer, Spallation Neutron Source (SNS). EPJ Web of Conferences, 2020, 239, 14007.	0.1	2
279	One-Dimensional Glassy Behavior of Ultraconfined Water Strings. Journal of Physical Chemistry Letters, 2020, 11, 7798-7804.	2.1	2
280	High-field spin-flop state in green dioptase. Physical Review B, 2021, 103, .	1.1	2
281	Determining the Number of Clusters with Rate-Distortion Curve Modeling. Lecture Notes in Computer Science, 2012, , 43-50.	1.0	2
282	High-resolution neutron time-of-flight measurements for light water at the Spallation Neutron Source (SNS), Oak Ridge National Laboratory. EPJ Web of Conferences, 2020, 239, 14005.	0.1	2
283	Isotopic dependence of the frequency of optical vibrations in molybdenum monohydride. Journal of Alloys and Compounds, 2022, 893, 162299.	2.8	2
284	Dynamic parallel spin stripes from the 1/8 anomaly to the end of superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>La</mml:mi></mml:mrow><mml:mrow><mml Physical Review Research, 2022, 4, .	1.8	2
285	Neutron scattering studies of structural transformations and vibrational spectra of ice after high pressure treatment. High Pressure Research, 1995, 14, 101-109.	0.4	1
286	Globular germanium precipitation from supersaturated Al(Ge) solid solutions prepared by thermobaric treatments. Journal of Non-Crystalline Solids, 1995, 192-193, 486-489.	1.5	1
287	Hydrogen vibrations in Î³-TiH and Î³-ZrH under high pressure. High Pressure Research, 2000, 17, 281-288.	0.4	1
288	Structure, proton incorporation and transport properties of ceramic proton conductor Ba(Ce_{0.7}Zr_{0.2}Yb_{0.1})O_{3-Î´}. Materials Research Society Symposia Proceedings, 2004, 835, K1.4.1.	0.1	1
	Muonâ€“spin-relaxation studies of high pressure phases of ices. Physica B: Condensed Matter, 2004, 350, E451-E454.	1.3	1

#	Article	IF	Citations
289	Methods for measuring light scattering in germanium and paratellurite crystals. Crystallography Reports, 2005, 50, S46-S52.	0.1	1
290	The relationship between mechanical stresses and optical anomalies in germanium and paratellurite. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2005, 72, 572.	0.2	1
291	Vector maps compression for progressive transmission. , 2007, , .		1
292	Observation of two O-H covalent bonds of water in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Na</mml:mi><mml:mn>0.3</mml:mn></mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>â^™</mml:mo><mml:mn>1.3</mml:mn><mml:msu mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">	1.1	1
293	An online polygonal approximation of digital signals and curves with Dynamic Programming algorithm. , 2008, , .		1
294	Phonon density of states of model ferroelectrics. Materials Research Society Symposia Proceedings, 2010, 1262, 1.	0.1	1
295	Fast algorithm for error-bounded compression of digital curves. , 2010, , .		1
296	Combined inelastic neutron scattering and solid-state DFT study of dynamics of hydrogen atoms in trioctahedral 1M phlogopite. Physics and Chemistry of Minerals, 2012, 39, 779-787.	0.3	1
297	Surface structure of large germanium single crystals. Journal of Surface Investigation, 2013, 7, 1060-1062.	0.1	1
298	Conversion of CH4 into H2 at 300C Using Pd/MnO2 Catalyst Made with an Effect of Water Oxidation. ECS Transactions, 2014, 58, 81-85.	0.3	1
299	Investigation of Phonon-Like Excitations in Hydrated Protein Powders by Neutron Scattering. Biophysical Journal, 2014, 106, 236a.	0.2	1
300	Publisher's Note:CaMn2Sb2: Spin waves on a frustrated antiferromagnetic honeycomb lattice [Phys. Rev. B91, 180407(R) (2015)]. Physical Review B, 2015, 91, .	1.1	1
301	Infrared and terahertz transmission properties of germanium single crystals. Journal of Physics: Conference Series, 2016, 737, 012021.	0.3	1
302	Optical properties of large germanium monocrystals. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	1
303	Measuring of the dynamic load by use of strain-gauge balance axial component. AIP Conference Proceedings, 2018, , .	0.3	1
304	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. Physical Review B, 2019, 99, .	1.1	1
305	High-Pressure Hydrofullerites. Journal of Surface Investigation, 2020, 14, 995-1002.	0.1	1
306	Spin waves above and below the Verwey transition in TbBaFe2O5. Physical Review B, 2020, 101, .	1.1	1

#	Article	IF	Citations
307	Direct determination of the zero-field splitting for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mn ion in a synthetic polymorph of <mml:math		

#	Article	IF	Citations
325	Insight into the evolution from ferromagnetism to antiferromagnetism: A doping-dependent study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>NaCrSi</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mspace width="0.16em"		