

Alexander I Kolesnikov

List of Publications by Year in descending order

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329
papers

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76326

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g-index

336
all docs

336
docs citations

336
times ranked

9773
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.	13.7	1,164
3	Anomalously Soft Dynamics of Water in a Nanotube: A Revelation of Nanoscale Confinement. Physical Review Letters, 2004, 93, 035503.	7.8	486
4	Seed, Expand and Constrain: Three Principles for Weakly-Supervised Image Segmentation. Lecture Notes in Computer Science, 2016, , 695-711.	1.3	311
5	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). Nanoscale, 2016, 8, 9128-9133.	5.6	225
6	SEQUOIA: A Newly Operating Chopper Spectrometer at the SNS. Journal of Physics: Conference Series, 2010, 251, 012058.	0.4	191
7	Topological Spin Excitations in Honeycomb Ferromagnet $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Cr} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ti} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ and the vibrational signatures of ferroelectricity in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{A} \langle \text{mml:mi} \rangle$ Physical Review X, 2018, 8, .	8.9	188
8	Phonon Density of States in MgB ₂ . Physical Review Letters, 2001, 87, 017005.	7.8	183
9	Dynamics of water confined in single- and double-wall carbon nanotubes. Journal of Chemical Physics, 2006, 124, 194703.	3.0	117
10	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. Review of Scientific Instruments, 2014, 85, 045113.	1.3	107
11	Simulation of Inelastic Neutron Scattering Spectra Using OCLIMAX. Journal of Chemical Theory and Computation, 2019, 15, 1974-1982.	5.3	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.	13.7	93
13	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. Physical Review Letters, 2016, 116, 167802.	7.8	92
14	Large phonon band gap in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{Sr} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{Ti} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ and the vibrational signatures of ferroelectricity in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{A} \langle \text{mml:mi} \rangle$	3.2	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.	17.4	88
16	Anomalous Behavior of Proton Zero Point Motion in Water Confined in Carbon Nanotubes. Physical Review Letters, 2006, 97, 247801.	7.8	87
17	Vibrational dynamics of amorphous ice. Physical Review B, 1999, 59, 3569-3578.	3.2	80
18	Neutron diffraction investigation of the dhcp and hcp iron hydrides and deuterides. Journal of Alloys and Compounds, 1998, 264, 214-222.	5.5	78

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19	Neutron spectroscopic investigation of dynamics of water ice. Journal of Molecular Liquids, 2002, 100, 1-39.	4.9	77
20	Reduced-search dynamic programming for approximation of polygonal curves. Pattern Recognition Letters, 2003, 24, 2243-2254.	4.2	72
21	Quantum Spin Ice Dynamics in the Dipole-Octupole Pyrochlore Magnet $\text{Ce}_2\text{Zr}_8\text{O}_{10}$. Physical Review Letters, 2019, 122, 167201.	7.8	170
22	Observation of a dynamic crossover in water confined in double-wall carbon nanotubes. Physical Review E, 2007, 76, 021505.	2.1	68
23	The cold neutron chopper spectrometer at the Spallation Neutron Source—A review of the first 8 years of operation. Review of Scientific Instruments, 2016, 87, 093902.	1.3	68
24	Magnetic anisotropy in ferromagnetic CrI_3 . Physical Review B, 2020, 101, .	8.4	116
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.	1.8	67
26	Structure and Stability of SnO_2 Nanocrystals and Surface-Bound Water Species. Journal of the American Chemical Society, 2013, 135, 6885-6895.	13.7	67
27	Neutron spectroscopic study of crystalline electric field excitations in stoichiometric and lightly stuffed Yb_2O_7 . Physical Review B, 2015, 92, .	3.2	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.	7.1	57
29	Structure and properties of densified silica glass: characterizing the order within disorder. NPC Asia Materials, 2020, 12, .	7.9	57
30	Evidence for an anomalous quantum state of protons in nanoconfined water. Physical Review B, 2012, 85, .	3.2	56
31	High-pressure hydrides of iron and its alloys. Journal of Physics Condensed Matter, 2002, 14, 6427-6445.	1.8	55
32	Dynamics of Water Confined on a TiO_2 (Anatase) Surface. Journal of Physical Chemistry A, 2007, 111, 12584-12588.	2.5	54
33	Neutron spectroscopy of $\text{MnHO}_{0.86}$, $\text{NiH}_{1.05}$, $\text{PdHO}_{0.99}$ and harmonic behaviour of their optical phonons. Physica B: Condensed Matter, 1991, 174, 257-261.	2.7	52
34	Estimating the number of clusters in a numerical data set via quantization error modeling. Pattern Recognition, 2015, 48, 941-952.	8.1	51
35	Polygonal approximation of closed discrete curves. Pattern Recognition, 2007, 40, 1282-1293.	8.1	49
36	Inelastic Neutron Scattering Study of Confined Surface Water on Rutile Nanoparticles. Journal of Physical Chemistry A, 2009, 113, 2796-2800.	2.5	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.	3.1	48
38	Strong anisotropy in the inelastic neutron scattering from PdH at high energy transfer. Physical Review B, 1998, 58, 2591-2595.	3.2	47
39	Inelastic neutron scattering studies of YFeO_3 . Physical Review B, 2014, 89, .	3.2	46
40	Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. Physical Review Materials, 2017, 1, .	2.4	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.	2.1	43
42	Negative thermal expansion in cubic ZrMo_2O_8 : Inelastic neutron scattering and lattice dynamical studies. Physical Review B, 2004, 70, .	3.2	41
43	Data reduction of large vector graphics. Pattern Recognition, 2005, 38, 381-394.	8.1	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.	3.1	40
45	Spin Pseudogap in Ni-Doped SrCu_2O_7 . Physical Review Letters, 2013, 111, 067204.	7.8	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.	3.0	39
47	Spin-orbit coupling controlled ground state in $\text{Sr}_2\text{Cu}_2\text{O}_7$. Physical Review B, 2016, 93, .	3.2	38
48	Magnetic Field Effect on Topological Spin Excitations in CrI_3 . Physical Review X, 2021, 11, .	8.9	37
49	Neutron Scattering Studies of Vapor Deposited Amorphous Ice. Physical Review Letters, 1997, 79, 1869-1872.	7.8	36
50	The Shortest Symmetrical Oâˆ“Hâˆ“O Hydrogen Bond Has a Low-Barrier Double-Well Potential. Journal of Physical Chemistry B, 2004, 108, 6922-6926.	2.6	36
51	Fast Proton Hopping Detection in Ice I_h by Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry C, 2011, 115, 10245-10251.	3.1	35
52	CaMn_2O_7 Spin waves on a frustrated antiferromagnetic honeycomb lattice. Physical Review B, 2015, 91, .	3.2	35
53	Magnetic Excitations of the Classical Spin Liquid MgCr_2O_4 . Physical Review Letters, 2019, 122, 097201.	7.8	34
54	Neutron scattering studies of ordered gamma -ZrD. Journal of Physics Condensed Matter, 1994, 6, 8977-8988.	1.8	33

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55	Quasiparticle-continuum level repulsion in a quantum magnet. <i>Nature Physics</i> , 2016, 12, 224-229.	16.7	33
56	Topological magnon bands in a room-temperature kagome magnet. <i>Physical Review B</i> , 2020, 101, .	3.2	32
57	Neutron spectroscopy of fullerite hydrogenated under high pressure; evidence for interstitial molecular hydrogen. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 2831-2838.	1.8	31
58	Decoupled spin dynamics in the rare-earth orthoferrite YbFeO_3 : Evolution of magnetic excitations through the spin-reorientation transition. <i>Physical Review B</i> , 2018, 98, .	3.2	31
59	Hybridized quadrupolar excitations in the spin-anisotropic frustrated magnet FeI_2 . <i>Nature Physics</i> , 2021, 17, 467-472.	16.7	30
60	Inelastic neutron scattering and lattice dynamical calculation of negative thermal expansion in HfW_2O_8 . <i>Physical Review B</i> , 2003, 68, .	3.2	29
61	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. <i>Carbon</i> , 2012, 50, 1071-1082.	10.3	29
62	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1065-1089.	2.0	29
63	Lossless compression of map contours by context tree modeling of chain codes. <i>Pattern Recognition</i> , 2007, 40, 944-952.	8.1	28
64	Phase transitions of interfacial water at 165 and 240 K. Connections to bulk water physics and protein dynamics. <i>European Physical Journal: Special Topics</i> , 2007, 141, 227-233.	2.6	28
65	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. <i>Physical Review E</i> , 2013, 88, 052306.	2.1	28
66	Strong Anisotropic Dynamics of Ultra-Confined Water. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13414-13419.	2.6	28
67	Neutron spectroscopy of $\text{TiHO}_0.74$ after high pressure treatment. <i>Journal of Physics Condensed Matter</i> , 1991, 3, 5927-5936.	1.8	27
68	Multilayer graphane synthesized under high hydrogen pressure. <i>Carbon</i> , 2016, 100, 465-473.	10.3	27
69	Magnetic ground state of the Ising-like antiferromagnet DyScO_3 . <i>Physical Review B</i> , 2017, 96, .	3.2	27
70	Anomalously soft dynamics of water in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 272-274.	2.7	26
71	Effect of chemical pressure on the crystal electric field states of erbium pyrochlore magnets. <i>Physical Review B</i> , 2018, 97, .	3.2	26
72	Probing Molecular Interactions at MXene/Organic Heterointerfaces. <i>Chemistry of Materials</i> , 2020, 32, 7884-7894.	6.7	26

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73	Magnetically driven phonon instability enables the metal-insulator transition in h-FeS. Nature Physics, 2020, 16, 669-675.	16.7	26
74	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co_3S_2 . Physical Review Letters, 2021, 127, 117201.	7.8	26
75	Magnetic exchange interactions in the van der Waals layered antiferromagnet $\text{Mn}_3\text{P}_2\text{Se}_3$. Physical Review B, 2021, 103, .	3.2	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.	1.8	25
77	Crystal structure and lattice dynamics of high-pressure scandium trihydride. Physical Review B, 2006, 73, .	3.2	25
78	Spin-orbit coupling control of anisotropy, ground state and frustration in $5d_2$ $\text{Sr}_2\text{MgOsO}_6$. Scientific Reports, 2016, 6, 32462.	3.3	25
79	Multiphonon contributions in inelastic neutron scattering spectra of ice. Physica B: Condensed Matter, 1997, 234-236, 34-36.	2.7	24
80	Quasielastic neutron scattering study of water confined in carbon nanopores. Europhysics Letters, 2011, 95, 56001.	2.0	24
81	Neutron-Scattering Evidence for a Periodically Modulated Superconducting Phase in the Underdoped Cuprate $\text{La}_{1.905}\text{Sr}_{0.095}\text{CuO}_4$. Physical Review Letters, 2014, 113, 177002.	7.8	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.	7.8	24
83	Neutron-Scattering Studies of Ice Prepared by Different Thermobaric Treatments. Journal of Physical Chemistry B, 1997, 101, 6082-6086.	2.6	23
84	Structure and dynamics of water confined in single-wall carbon nanotubes. Journal of Physics Condensed Matter, 2006, 18, S2321-S2334.	1.8	22
85	Crystal structure and lattice dynamics of chromium hydrides. Journal of Alloys and Compounds, 2007, 430, 22-28.	5.5	22
86	Neutron spectroscopy of manganese hydride. Solid State Communications, 2000, 113, 569-572.	1.9	21
87	Lossless Compression of Color Map Images by Context Tree Modeling. IEEE Transactions on Image Processing, 2007, 16, 114-120.	9.8	21
88	Quantum effects in the dynamics of deeply supercooled water. Physical Review E, 2015, 91, 022312.	2.1	21
89	Low-energy antiferromagnetic spin fluctuations limit the coherent superconducting gap in cuprates. Physical Review B, 2018, 98, .	3.2	21
90	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. Physical Review Materials, 2017, 1, .	2.4	21

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91	Further evidence of a liquid-liquid transition in interfacial water. Journal of Physics Condensed Matter, 2006, 18, S2299-S2304.	1.8	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, , .	0.4	20
93	<i>Ab initio</i> simulation of hydrogen bonding in ices under ultra-high pressure. Journal of Chemical Physics, 2012, 137, 204507.	3.0	20
94	ISE-bounded polygonal approximation of digital curves. Pattern Recognition Letters, 2012, 33, 1329-1337.	4.2	20
95	Effects of Confinement and Pressure on the Vibrational Behavior of Nano-Confined Propane. Journal of Physical Chemistry A, 2018, 122, 6736-6745.	2.5	20
96	Magnetic excitations in the quasi-two-dimensional ferromagnet $\text{Fe}(\text{VO})_2$ measured with inelastic neutron scattering. Physical Review B, 2019, 99, .	2.0	20
97	Spin Waves and Magnetic Exchange Hamiltonian in CrSBr. Advanced Science, 2022, 9, .	11.2	20
98	Inelastic neutron scattering study of water in the subcritical and supercritical region. Physical Review B, 2000, 62, 5492-5495.	3.2	19
99	Conversion method of powder inelastic scattering data for one-dimensional systems. Applied Physics Letters, 2009, 94, 092502.	3.3	19
100	Influence of Particle Size and Water Coverage on the Thermodynamic Properties of Water Confined on the Surface of SnO_2 Cassiterite Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 21105-21112.	3.1	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.	1.8	18
102	Neutron spectroscopy of fullerite hydrogenated under high pressures. Physica B: Condensed Matter, 1999, 263-264, 436-438.	2.7	18
103	Lattice dynamics of AlH_3 and AlD_3 by inelastic neutron scattering: High-energy band of optical bond-stretching vibrations. Physical Review B, 2007, 76, .	3.2	18
104	Neutron scattering study of magnetic excitations in a d -based double-perovskite BaFeReO_6 . Physical Review B, 2014, 90, .	3.2	18
105	Origin of the charge gap in LaMnPO . Physical Review B, 2014, 90, .	3.2	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.	11.1	18
107	Weakened hydrogen bond interactions in the high pressure phase of ice: Ice II. Journal of Chemical Physics, 1998, 109, 235-240.	3.0	17
108	Inelastic neutron scattering, lattice dynamics, and synchrotron x-ray diffraction study of FePO_4 . Physical Review B, 2002, 66, .	3.2	17

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109	Energetics of single-wall carbon nanotubes as revealed by calorimetry and neutron scattering. Carbon, 2011, 49, 949-954.	10.3	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.	4.6	17
111	Parallel spin stripes and their coexistence with superconducting ground states at optimal and high doping in $\text{La}_{1-x}\text{F}_{2x}\text{O}_2$. Physical Review Research, 2021, 3, .	3.6	17
112	Inelastic neutron scattering study of ordered gamma -ZrH. Journal of Physics Condensed Matter, 1994, 6, 8989-9000.	1.8	16
113	Neutron diffraction study of bulk amorphous Zn ₄₁ Sb ₅₉ . Journal of Non-Crystalline Solids, 1994, 176, 263-270.	3.1	16
114	Neutron scattering studies of -CoH. Journal of Alloys and Compounds, 2005, 404-406, 73-76.	5.5	16
115	The thermodynamic properties of hydrated $\hat{\Gamma}^3$ -Al ₂ O ₃ nanoparticles. Journal of Chemical Physics, 2013, 139, 244705.	3.0	16
116	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl ₃ . 2D Materials, 2022, 9, 015006.	4.4	16
117	Neutron spectroscopy of ice VIII in the region of 20-500 meV. Physical Review B, 1999, 59, 9088-9094.	3.2	15
118	Neutron scattering study of bulk amorphous GaSb. Journal of Non-Crystalline Solids, 1999, 244, 250-259.	3.1	15
119	Vibrational dynamics of amorphous beryllium hydride and lithium beryllium hydrides. Journal of Chemical Physics, 2008, 128, 134512.	3.0	15
120	Origin of magnetic excitation gap in double perovskite $\text{Sr}_2\text{MnReO}_{10}$. Physical Review B, 2018, 98, .	2.2	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.	2.7	14
122	Neutron diffraction investigation of $\hat{\Gamma}^3$ manganese hydride. Solid State Communications, 1998, 107, 787-790.	1.9	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.	1.8	14
124	The vibrational spectrum and giant tunnelling effect of hydrogen dissolved in $\hat{\Gamma}^3$ -Mn. Physica B: Condensed Matter, 1999, 263-264, 421-423.	2.7	14
125	Neutron scattering and scaling behavior in URu_2Si_2 . Physical Review B, 2010, 82, .	3.2	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.	1.8	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.	10.3	14
128	Simulation of Inelastic Neutron Scattering Spectra Directly from Molecular Dynamics Trajectories. Journal of Chemical Theory and Computation, 2020, 16, 7702-7708.	5.3	14
129	Collective excitations in the tetravalent lanthanide honeycomb antiferromagnet Na ₂ PrO ₃ . Physical Review B, 2021, 103, .	3.2	14
130	Improving Weakly-Supervised Object Localization By Micro-Annotation. , 2016, , .		14
131	Neutron scattering study and lattice dynamical simulation of clathrate H ₂ O+He. Physica B: Condensed Matter, 1999, 263-264, 429-431.	2.7	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.	1.8	13
133	Structure of water in mesoporous organosilica by calorimetry and inelastic neutron scattering. Surface Science, 2009, 603, 71-77.	1.9	13
134	Neutron spectroscopy of magnesium dihydride. Journal of Alloys and Compounds, 2011, 509, S599-S603.	5.5	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.	7.8	13
136	LiDAR-Assisted Multi-Source Program (LAMP) for Measuring Above Ground Biomass and Forest Carbon. Remote Sensing, 2017, 9, 154.	4.0	13
137	Laser-ultrasonic temperature mapping of an acousto-optic dispersive delay line. NDT and E International, 2018, 98, 171-176.	3.7	13
138	Dual Nature of Magnetism in a Uranium Heavy-Fermion System. Physical Review Letters, 2018, 121, 057201.	7.8	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.	7.8	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.	13.7	12
141	Measurement of proton momentum distributions using a direct geometry instrument. Journal of Physics: Conference Series, 2014, 571, 012007.	0.4	12
142	Magnetic interactions in PdCrO_2 and their effects on its magnetic structure. Physical Review B, 2018, 98, .		12
143	Large Positive Zero-Field Splitting in the Cluster Magnet Ba ₃ CeRu ₂ O ₉ . Journal of the American Chemical Society, 2019, 141, 9928-9936.	13.7	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.	3.1	12

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145	Unconventional Hund metal in a weak itinerant ferromagnet. Nature Communications, 2020, 11, 3076.	12.8	12
146	Neutron spectroscopy of aluminium trihydride. Journal of Physics Condensed Matter, 1996, 8, 2529-2538.	1.8	11
147	Carbon-hydrogen bonding in near-frictionless carbon. Applied Physics Letters, 2008, 93, .	3.3	11
148	Neutron spectroscopy of H impurities in PdD: Covibrations of the H and D atoms. Physical Review B, 2009, 80, .	3.2	11
149	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(Melm) ₂ . Journal of Chemical Thermodynamics, 2019, 136, 160-169.	2.0	11
150	Hydrogen Dynamics in Supercritical Water Probed by Neutron Scattering and Computer Simulations. Journal of Physical Chemistry Letters, 2020, 11, 9461-9467.	4.6	11
151	Vibrational Behavior of Water Adsorbed on Forsterite (Mg ₂ SiO ₄) Surfaces. ACS Earth and Space Chemistry, 2020, 4, 1050-1063.	2.7	11
152	Structure and lattice dynamics of titanium hydrides due to thermobaric treatment. High Pressure Research, 1995, 14, 91-100.	1.2	10
153	Neutron-diffraction study of bulk amorphousAl ₃₂ Ge ₆₈ alloy. Physical Review B, 1999, 60, 12681-12686.	3.2	10
154	Neutron spectroscopy of high-density amorphous ice. Physica B: Condensed Matter, 1999, 263-264, 650-652.	2.7	10
155	Lattice dynamics of high-pressure hydrides of the group VI-VIII transition metals. Physica B: Condensed Matter, 2002, 316-317, 158-161.	2.7	10
156	Experimental Observations of Water's Framework Interactions in a Hydrated Microporous Aluminum Phosphate. Journal of Physical Chemistry B, 2005, 109, 4464-4469.	2.6	10
157	Heat capacity of AlH_3 and AlD_3 at temperatures up to 1000 K. Journal of Physics Condensed Matter, 2008, 20, 275204.	1.8	10
158	Crystallization in heat-treated fluorochlorozirconate glasses. Journal of Physics Condensed Matter, 2009, 21, 375103.	1.8	10
159	Compound behavior, ferromagnetic correlations, and crystal fields in the heavy-fermion compounds $\text{Ce}_{1-x}\text{Th}_x\text{CoIn}_5$. $\text{Ce}_{1-x}\text{Th}_x\text{CoIn}_5$		

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163	Effect of fine-tuning pore structures on the dynamics of confined water. Journal of Chemical Physics, 2019, 150, 204706.	3.0	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	0.6	10
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