

Alexander I Kolesnikov

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306
papers

6,569
citations

37
h-index

71
g-index

336
ext. papers

7,992
ext. citations

4
avg, IF

5.93
L-index

#	Paper	IF	Citations
306	Role of surface structure on Li-ion energy storage capacity of two-dimensional transition-metal carbides. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6385-94	16.4	864
305	iCaRL: Incremental Classifier and Representation Learning 2017 ,		468
304	Anomalously soft dynamics of water in a nanotube: a revelation of nanoscale confinement. <i>Physical Review Letters</i> , 2004 , 93, 035503	7.4	451
303	Seed, Expand and Constrain: Three Principles for Weakly-Supervised Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 695-711	0.9	173
302	Phonon density of states in MgB ₂ . <i>Physical Review Letters</i> , 2001 , 87, 017005	7.4	169
301	The effect of hydrazine intercalation on the structure and capacitance of 2D titanium carbide (MXene). <i>Nanoscale</i> , 2016 , 8, 9128-33	7.7	161
300	SEQUOIA: A Newly Operating Chopper Spectrometer at the SNS. <i>Journal of Physics: Conference Series</i> , 2010 , 251, 012058	0.3	142
299	Dynamics of water confined in single- and double-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2006 , 124, 194703	3.9	105
298	A comparison of four direct geometry time-of-flight spectrometers at the Spallation Neutron Source. <i>Review of Scientific Instruments</i> , 2014 , 85, 045113	1.7	82
297	Topological Spin Excitations in Honeycomb Ferromagnet CrI ₃ . <i>Physical Review X</i> , 2018 , 8,	9.1	82
296	Large phonon band gap in SrTiO ₃ and the vibrational signatures of ferroelectricity in ATiO ₃ perovskites: First-principles lattice dynamics and inelastic neutron scattering. <i>Physical Review B</i> , 2008 , 77,	3.3	80
295	Anomalous behavior of proton zero point motion in water confined in carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 97, 247801	7.4	79
294	Vibrational dynamics of amorphous ice. <i>Physical Review B</i> , 1999 , 59, 3569-3578	3.3	76
293	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. <i>Physical Review Letters</i> , 2016 , 116, 167802	7.4	73
292	Neutron spectroscopic investigation of dynamics of water ice. <i>Journal of Molecular Liquids</i> , 2002 , 100, 1-39	6	72
291	Neutron diffraction investigation of the dhcp and hcp iron hydrides and deuterides. <i>Journal of Alloys and Compounds</i> , 1998 , 264, 214-222	5.7	63
290	Observation of a dynamic crossover in water confined in double-wall carbon nanotubes. <i>Physical Review E</i> , 2007 , 76, 021505	2.4	62

289	Quasielastic and inelastic neutron scattering investigation of fragile-to-strong crossover in deeply supercooled water confined in nanoporous silica matrices. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2261-S2284	1.8	61
288	Complexity of Intercalation in MXenes: Destabilization of Urea by Two-Dimensional Titanium Carbide. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10305-10314	16.4	58
287	Reduced-search dynamic programming for approximation of polygonal curves. <i>Pattern Recognition Letters</i> , 2003 , 24, 2243-2254	4.7	57
286	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019 , 4, 2805-2812	20.1	51
285	Structure and stability of SnO ₂ nanocrystals and surface-bound water species. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6885-95	16.4	51
284	Neutron spectroscopic study of crystalline electric field excitations in stoichiometric and lightly stuffed Yb ₂ Ti ₂ O ₇ . <i>Physical Review B</i> , 2015 , 92,	3.3	50
283	Dynamics of water confined on a TiO ₂ (anatase) surface. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 12584-8	4.8	50
282	High-pressure hydrides of iron and its alloys. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 6427-6445	1.8	49
281	Simulation of Inelastic Neutron Scattering Spectra Using OCLIMAX. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1974-1982	6.4	48
280	Evidence for an anomalous quantum state of protons in nanoconfined water. <i>Physical Review B</i> , 2012 , 85,	3.3	48
279	Anomalously large isotope effect in the glass transition of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17402-7	11.5	47
278	Neutron spectroscopy of MnH _{0.86} , NiH _{1.05} , PdH _{0.99} and harmonic behaviour of their optical phonons. <i>Physica B: Condensed Matter</i> , 1991 , 174, 257-261	2.8	46
277	Inelastic neutron scattering study of confined surface water on rutile nanoparticles. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2796-800	2.8	45
276	Vibrational Density of States of Strongly H-Bonded Interfacial Water: Insights from Inelastic Neutron Scattering and Theory. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10805-10813	3.8	43
275	Inelastic incoherent neutron scattering study of D ₂ O and H ₂ O ice VIII in the range 20-40 meV. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992 , 168, 308-312	2.3	43
274	The cold neutron chopper spectrometer at the Spallation Neutron Source-A review of the first 8 years of operation. <i>Review of Scientific Instruments</i> , 2016 , 87, 093902	1.7	43
273	Strong anisotropy in the inelastic neutron scattering from PdH at high energy transfer. <i>Physical Review B</i> , 1998 , 58, 2591-2595	3.3	39
272	Estimating the number of clusters in a numerical data set via quantization error modeling. <i>Pattern Recognition</i> , 2015 , 48, 941-952	7.7	38

271	Inelastic neutron scattering studies of YFeO ₃ . <i>Physical Review B</i> , 2014 , 89,	3-3	38
270	Negative thermal expansion in cubic ZrMo ₂ O ₈ : Inelastic neutron scattering and lattice dynamical studies. <i>Physical Review B</i> , 2004 , 70,	3-3	37
269	Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. <i>Physical Review Materials</i> , 2017 , 1,	3-2	35
268	The quantum nature of the OH stretching mode in ice and water probed by neutron scattering experiments. <i>Journal of Chemical Physics</i> , 2013 , 139, 074504	3-9	34
267	Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8730-8741	3-8	34
266	Spin-orbit coupling controlled ground state in Sr ₂ ScOsO ₆ . <i>Physical Review B</i> , 2016 , 93,	3-3	33
265	Spin pseudogap in Ni-doped SrCuO ₂ . <i>Physical Review Letters</i> , 2013 , 111, 067204	7-4	33
264	Neutron Scattering Studies of Vapor Deposited Amorphous Ice. <i>Physical Review Letters</i> , 1997 , 79, 1869-1872		33
263	The Shortest Symmetrical OH...O Hydrogen Bond Has a Low-Barrier Double-Well Potential. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6922-6926	3-4	32
262	CaMn ₂ Sb ₂ : Spin waves on a frustrated antiferromagnetic honeycomb lattice. <i>Physical Review B</i> , 2015 , 91,	3-3	31
261	Polygonal approximation of closed discrete curves. <i>Pattern Recognition</i> , 2007 , 40, 1282-1293	7-7	31
260	Data reduction of large vector graphics. <i>Pattern Recognition</i> , 2005 , 38, 381-394	7-7	29
259	Neutron scattering studies of ordered gamma-ZrD. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 8977-8988		29
258	Fast Proton Hopping Detection in Ice Ih by Quasi-Elastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 10245-10251	3-8	28
257	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	28
256	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	2-3	27
255	Inelastic neutron scattering and lattice dynamical calculation of negative thermal expansion in HfW ₂ O ₈ . <i>Physical Review B</i> , 2003 , 68,	3-3	27
254	Quantum Spin Ice Dynamics in the Dipole-Octupole Pyrochlore Magnet Ce ₂ Zr ₂ O ₇ . <i>Physical Review Letters</i> , 2019 , 122, 187201	7-4	26

253	Neutron spectroscopy of TiH _{0.74} after high pressure treatment. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 5927-5936	1.8	26
252	Magnetic anisotropy in ferromagnetic CrI ₃ . <i>Physical Review B</i> , 2020 , 101,	3.3	25
251	Quasiparticle-continuum level repulsion in a quantum magnet. <i>Nature Physics</i> , 2016 , 12, 224-229	16.2	24
250	Multiphonon contributions in inelastic neutron scattering spectra of ice. <i>Physica B: Condensed Matter</i> , 1997 , 234-236, 34-36	2.8	24
249	Crystal structure and lattice dynamics of high-pressure scandium trihydride. <i>Physical Review B</i> , 2006 , 73,	3.3	24
248	Anomalously soft dynamics of water in carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 272-274	2.8	24
247	Multilayer graphene synthesized under high hydrogen pressure. <i>Carbon</i> , 2016 , 100, 465-473	10.4	23
246	Lossless compression of map contours by context tree modeling of chain codes. <i>Pattern Recognition</i> , 2007 , 40, 944-952	7.7	23
245	Neutron scattering studies of the vibrational spectrum of high-density amorphous ice in comparison with ice Ih and VI. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 375-382	1.8	23
244	Boson peak in deeply cooled confined water: a possible way to explore the existence of the liquid-to-liquid transition in water. <i>Physical Review Letters</i> , 2014 , 112, 237802	7.4	22
243	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: a multifrequency analysis. <i>Physical Review E</i> , 2013 , 88, 052306	2.4	22
242	Strong anisotropic dynamics of ultra-confined water. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13414-934	3.4	22
241	Quasielastic neutron scattering study of water confined in carbon nanopores. <i>Europhysics Letters</i> , 2011 , 95, 56001	1.6	22
240	Neutron-Scattering Studies of Ice Prepared by Different Thermobaric Treatments. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6082-6086	3.4	22
239	Effect of chemical pressure on the crystal electric field states of erbium pyrochlore magnets. <i>Physical Review B</i> , 2018 , 97,	3.3	21
238	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. <i>Carbon</i> , 2012 , 50, 1071-1082	10.4	21
237	Further evidence of a liquid-liquid transition in interfacial water. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2299-S2304	1.8	20
236	Structure and dynamics of water confined in single-wall carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S2321-S2334	1.8	20

235	Spin-orbit coupling control of anisotropy, ground state and frustration in 5d(2) Sr ₂ MgOsO ₆ . <i>Scientific Reports</i> , 2016 , 6, 32462	4.9	20
234	Neutron spectroscopy of Γ manganese hydride. <i>Solid State Communications</i> , 2000 , 113, 569-572	1.6	19
233	Structure and properties of densified silica glass: characterizing the order within disorder. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	19
232	Neutron-scattering evidence for a periodically modulated superconducting phase in the underdoped cuprate La _{1.905} Ba _{0.095} CuO ₄ . <i>Physical Review Letters</i> , 2014 , 113, 177002	7.4	18
231	Influence of Particle Size and Water Coverage on the Thermodynamic Properties of Water Confined on the Surface of SnO ₂ Cassiterite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21105-21112	3.8	18
230	Lattice dynamics of Γ H ₃ and Γ D ₃ by inelastic neutron scattering: High-energy band of optical bond-stretching vibrations. <i>Physical Review B</i> , 2007 , 76,	3.3	18
229	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18
228	Quantum effects in the dynamics of deeply supercooled water. <i>Physical Review E</i> , 2015 , 91, 022312	2.4	17
227	ISE-bounded polygonal approximation of digital curves. <i>Pattern Recognition Letters</i> , 2012 , 33, 1329-1337	4.7	17
226	Energetics of single-wall carbon nanotubes as revealed by calorimetry and neutron scattering. <i>Carbon</i> , 2011 , 49, 949-954	10.4	17
225	Inelastic neutron scattering study of water in the subcritical and supercritical region. <i>Physical Review B</i> , 2000 , 62, 5492-5495	3.3	17
224	Neutron scattering study of magnetic excitations in a 5d-based double-perovskite Ba ₂ FeReO ₆ . <i>Physical Review B</i> , 2013 , 87,	3.3	16
223	Conversion method of powder inelastic scattering data for one-dimensional systems. <i>Applied Physics Letters</i> , 2009 , 94, 092502	3.4	16
222	Weakened hydrogen bond interactions in the high pressure phase of ice: Ice II. <i>Journal of Chemical Physics</i> , 1998 , 109, 235-240	3.9	16
221	A real-time neutron diffraction study of phase transitions in the Ti-D system after high-pressure treatment. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 5045-5058	1.8	16
220	Ab initio simulation of hydrogen bonding in ices under ultra-high pressure. <i>Journal of Chemical Physics</i> , 2012 , 137, 204507	3.9	15
219	Dynamic Crossover Phenomenon in Confined Supercooled Water and Its Relation to the Existence of a Liquid-Liquid Critical Point in Water. <i>AIP Conference Proceedings</i> , 2008 ,	0	15
218	Neutron scattering studies of Γ CoH. <i>Journal of Alloys and Compounds</i> , 2005 , 404-406, 73-76	5.7	15

217	Neutron spectroscopy of ice VIII in the region of 2000 meV. <i>Physical Review B</i> , 1999 , 59, 9088-9094	3.3	15
216	Neutron spectroscopy of fullerite hydrogenated under high pressures. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 436-438	2.8	15
215	Neutron diffraction study of bulk amorphous Zn ₄₁ Sb ₅₉ . <i>Journal of Non-Crystalline Solids</i> , 1994 , 176, 263-270	3.9	15
214	Magnetic ground state of the Ising-like antiferromagnet DyScO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
213	Topological magnon bands in a room-temperature kagome magnet. <i>Physical Review B</i> , 2020 , 101,	3.3	14
212	Quantum Coherence and Temperature Dependence of the Anomalous State of Nanoconfined Water in Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4433-4437	6.4	14
211	Origin of the charge gap in LaMnPO. <i>Physical Review B</i> , 2014 , 90,	3.3	14
210	The thermodynamic properties of hydrated Al ₂ O ₃ nanoparticles. <i>Journal of Chemical Physics</i> , 2013 , 139, 244705	3.9	14
209	Crystal structure and lattice dynamics of chromium hydrides. <i>Journal of Alloys and Compounds</i> , 2007 , 430, 22-28	5.7	14
208	Inelastic neutron scattering, lattice dynamics, and synchrotron x-ray diffraction study of FePO ₄ . <i>Physical Review B</i> , 2002 , 66,	3.3	14
207	Neutron scattering study of bulk amorphous GaSb. <i>Journal of Non-Crystalline Solids</i> , 1999 , 244, 250-259	3.9	14
206	Inelastic neutron scattering study of ordered gamma -ZrH. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 8989-9000	1.8	14
205	Magnetic Excitations of the Classical Spin Liquid MgCr ₂ O ₄ . <i>Physical Review Letters</i> , 2019 , 122, 097201	9.1	13
204	Variance-preserving mosaicing of multiple satellite images for forest parameter estimation: Radiometric normalization. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015 , 105, 120-127	11.8	13
203	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,	3.3	13
202	Water dynamics in a lithium chloride aqueous solution probed by Brillouin neutron and x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 064102	1.8	13
201	Vibrational dynamics of amorphous beryllium hydride and lithium beryllium hydrides. <i>Journal of Chemical Physics</i> , 2008 , 128, 134512	3.9	13
200	Lossless compression of color map images by context tree modeling. <i>IEEE Transactions on Image Processing</i> , 2007 , 16, 114-20	8.7	13

199	Neutron scattering studies of the structure and lattice dynamics of a solid solution of hydrogen in -manganese. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 5255-5266	1.8	13
198	Similarity of vibrational spectra of high-density amorphous ice and high-pressure phase ice VI. <i>Physica B: Condensed Matter</i> , 1995 , 213-214, 474-476	2.8	13
197	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
196	Inelastic neutron scattering, Raman and DFT investigations of the adsorption of phenanthrenequinone on onion-like carbon. <i>Carbon</i> , 2013 , 52, 150-157	10.4	12
195	Neutron scattering and scaling behavior in URu ₂ Zn ₂₀ and YbFe ₂ Zn ₂₀ . <i>Physical Review B</i> , 2010 , 82,	3.3	12
194	Neutron diffraction investigation of δ -manganese hydride. <i>Solid State Communications</i> , 1998 , 107, 787-790.6		12
193	Structure and dynamics of concentrated aqueous solutions of aluminium chloride, beryllium chloride and aluminium bromide: Raman, inelastic neutron scattering and x-ray diffraction results. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6343-6364	1.8	12
192	Neutron scattering study and lattice dynamical simulation of clathrate H ₂ O+He. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 429-431	2.8	12
191	Low-energy antiferromagnetic spin fluctuations limit the coherent superconducting gap in cuprates. <i>Physical Review B</i> , 2018 , 98,	3.3	12
190	Magnetic excitations in the quasi-two-dimensional ferromagnet Fe ₃ GeTe ₂ measured with inelastic neutron scattering. <i>Physical Review B</i> , 2019 , 99,	3.3	11
189	Effects of Confinement and Pressure on the Vibrational Behavior of Nano-Confined Propane. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 6736-6745	2.8	11
188	LiDAR-Assisted Multi-Source Program (LAMP) for Measuring Above Ground Biomass and Forest Carbon. <i>Remote Sensing</i> , 2017 , 9, 154	5	11
187	Pressure Effect on the Boson Peak in Deeply Cooled Confined Water: Evidence of a Liquid-Liquid Transition. <i>Physical Review Letters</i> , 2015 , 115, 235701	7.4	11
186	The vibrational spectrum and giant tunnelling effect of hydrogen dissolved in δ -Mn. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 421-423	2.8	11
185	Improving Weakly-Supervised Object Localization By Micro-Annotation 2016 ,		11
184	Laser-ultrasonic temperature mapping of an acousto-optic dispersive delay line. <i>NDT and E International</i> , 2018 , 98, 171-176	4.1	11
183	Magnetically driven phonon instability enables the metal-insulator transition in h-FeS. <i>Nature Physics</i> , 2020 , 16, 669-675	16.2	10
182	Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. <i>Physical Review Letters</i> , 2018 , 120, 196001	7.4	10

181	Charge-dependent dynamics of a polyelectrolyte dendrimer and its correlation with invasive water. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5111-7	16.4	10
180	Neutron spectroscopy of magnesium dihydride. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S599-S603	5.7	10
179	Structure of water in mesoporous organosilica by calorimetry and inelastic neutron scattering. <i>Surface Science</i> , 2009 , 603, 71-77	1.8	10
178	Neutron spectroscopy of H impurities in PdD: Covibrations of the H and D atoms. <i>Physical Review B</i> , 2009 , 80,	3.3	10
177	Crystallization in heat-treated fluorochlorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 3751031-3751036	1.8	10
176	Neutron spectroscopy of aluminium trihydride. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 2529-2538	1.8	10
175	Heat capacity of AlH_3 and AlD_3 at temperatures up to 1000 K. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 275204	1.8	10
174	Neutron spectroscopy of high-density amorphous ice. <i>Physica B: Condensed Matter</i> , 1999 , 263-264, 650-658		10
173	Structure and lattice dynamics of titanium hydrides due to thermobaric treatment. <i>High Pressure Research</i> , 1995 , 14, 91-100	1.6	10
172	Probing Molecular Interactions at MXene/Organic Heterointerfaces. <i>Chemistry of Materials</i> , 2020 , 32, 7884-7894	9.6	10
171	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, $\text{Zn}(\text{MeIm})_2$. <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 160-169	2.9	9
170	Coupled antiferromagnetic spin-1/2 chains in green diopside $\text{Cu}_6[\text{Si}_6\text{O}_{18}][\text{B}_2\text{H}_2\text{O}]$. <i>Physical Review B</i> , 2016 , 93,	3.3	9
169	Magnetic interactions in PdCrO_2 and their effects on its magnetic structure. <i>Physical Review B</i> , 2018 , 98,	3.3	9
168	Effect of crystal structure of manganese dioxide on response for electrolyte of a hydrogen sensor operative at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2013 , 183, 641-647	8.5	9
167	Measurement of proton momentum distributions using a direct geometry instrument. <i>Journal of Physics: Conference Series</i> , 2014 , 571, 012007	0.3	9
166	Experimental observations of water-framework interactions in a hydrated microporous aluminum phosphate. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4464-9	3.4	9
165	Neutron-diffraction study of bulk amorphous $\text{Al}_{32}\text{Ge}_{68}$ alloy. <i>Physical Review B</i> , 1999 , 60, 12681-12686	3.3	9
164	Bulk Amorphous Ga/Sb Semiconductors Prepared by Thermobaric Treatment: Formation and Properties. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 198, 491-496	1.3	9

163	Strong anharmonic H(D) vibrations in the β phase of titanium hydride: observation of bound multiphonon states. <i>Physica B: Condensed Matter</i> , 1992 , 180-181, 284-286	2.8	9
162	Thermodynamic Properties of β -Fe ₂ O ₃ and Fe ₃ O ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9609-9616	3.8	8
161	Spin pseudogap in the S=12 chain material Sr ₂ CuO ₃ with impurities. <i>Physical Review B</i> , 2017 , 95,	3.3	8
160	Singlet-triplet excitations in the unconventional spin-Peierls TiOBr compound. <i>Physical Review Letters</i> , 2011 , 106, 117401	7.4	8
159	Structural defects in germanium single crystals. <i>Journal of Surface Investigation</i> , 2010 , 4, 994-997	0.5	8
158	Lattice Dynamical Calculations of Ice VIII. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6087-6089	3.4	8
157	Tb ³⁺ in TbCo ₃ B ₂ : A singlet ground state system studied by inelastic neutron scattering. <i>Physical Review B</i> , 2008 , 78,	3.3	8
156	Origins of isotopomeric polymorphism. <i>Isotopes in Environmental and Health Studies</i> , 2006 , 42, 271-7	1.5	8
155	Lattice dynamics of high-pressure hydrides of the group VI-VIII transition metals. <i>Physica B: Condensed Matter</i> , 2002 , 316-317, 158-161	2.8	8
154	Inelastic neutron scattering investigation of Greenland ices. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 282-283	2.8	8
153	Neutron scattering studies of the structure and dynamics of the PdCu-H ordered phase produced under a high hydrogen pressure. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 9001-9008	1.8	8
152	Structure and dynamics of different phases of the superprotonic conductor CsHSO ₄ . <i>Physica B: Condensed Matter</i> , 1995 , 213-214, 1034-1036	2.8	8
151	Origin of Two Distinct Peaks of Ice in the THz Region and Its Application for Natural Gas Hydrate Dissociation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1165-1170	3.8	8
150	Origin of magnetic excitation gap in double perovskite Sr ₂ FeOsO ₆ . <i>Physical Review B</i> , 2018 , 98,	3.3	8
149	Large Positive Zero-Field Splitting in the Cluster Magnet BaCeRuO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9928-9936	16.4	7
148	Segmentation and multi-model approximation of digital curves. <i>Pattern Recognition Letters</i> , 2012 , 33, 1171-1179	4.7	7
147	Crystal field excitations in the singlet ground state compound Pr ₃ In. <i>Journal of Applied Physics</i> , 2007 , 101, 09D505	2.5	7
146	The first observation of the boson peak from water vapour deposited amorphous ice. <i>Physica B: Condensed Matter</i> , 2002 , 316-317, 493-496	2.8	7

145	Incoherent inelastic neutron-scattering studies of the structure of water associated with DNA and gelatin. <i>Canadian Journal of Physics</i> , 2003 , 81, 367-371	1.1	7
144	Polygonal Approximation of Closed Contours. <i>Lecture Notes in Computer Science</i> , 2003 , 778-785	0.9	7
143	Neutron diffraction and reverse Monte Carlo study of bulk amorphous Ga ₃₈ Sb ₃₈ Ge ₂₄ alloys. <i>Physical Review B</i> , 2000 , 62, 9372-9377	3.3	7
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