

Alexander I Kolesnikov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Experimental mapping of short-wavelength phonons in proteins.. <i>Innovation(China)</i> , 2022 , 3, 100199	17.8	0
305	Lattice dynamics of high-pressure hydrides studied by inelastic neutron scattering. <i>Journal of Alloys and Compounds</i> , 2022 , 164208	5.7	0
304	Massless Dirac magnons in the two dimensional van der Waals honeycomb magnet CrCl ₃ . <i>2D Materials</i> , 2022 , 9, 015006	5.9	2
303	Isotopic dependence of the frequency of optical vibrations in molybdenum monohydride. <i>Journal of Alloys and Compounds</i> , 2022 , 893, 162299	5.7	0
302	Study of Anharmonicity in Zirconium Hydrides Using Inelastic Neutron Scattering and Ab-Initio Computer Modeling. <i>Inorganics</i> , 2021 , 9, 29	2.9	0
301	Parallel spin stripes and their coexistence with superconducting ground states at optimal and high doping in La _{1.6} Nd _{0.4} SrCuO ₄ . <i>Physical Review Research</i> , 2021 , 3,	3.9	3
300	Neutron scattering study of tantalum monohydride and monodeuteride. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20630-20639	6.7	3
299	Freezing of a Disorder Induced Spin Liquid with Strong Quantum Fluctuations. <i>Physical Review Letters</i> , 2021 , 127, 017201	7.4	0
298	Thermal neutron scattering measurements and modeling of yttrium-hydrides for high temperature moderator applications. <i>Annals of Nuclear Energy</i> , 2021 , 157, 108224	1.7	1
297	Methodology for Generating Covariance Data of Thermal Neutron Scattering Cross Sections. <i>Nuclear Science and Engineering</i> , 2021 , 195, 13-32	1.2	2
296	Hybridized quadrupolar excitations in the spin-anisotropic frustrated magnet FeI ₂ . <i>Nature Physics</i> , 2021 , 17, 467-472	16.2	6
295	Low rotational barriers for the most dynamically active methyl groups in the proposed antiviral drugs for treatment of SARS-CoV-2, apilimod and tetrandrine. <i>Chemical Physics Letters</i> , 2021 , 777, 138727 ⁵	2.5	4
294	Magnetic Field Effect on Topological Spin Excitations in CrI ₃ . <i>Physical Review X</i> , 2021 , 11,	9.1	2
293	Unusual Exchange Couplings and Intermediate Temperature Weyl State in Co ₃ Sn ₂ S ₂ . <i>Physical Review Letters</i> , 2021 , 127, 117201	7.4	3
292	Magnetic exchange interactions in the van der Waals layered antiferromagnet MnPSe ₃ . <i>Physical Review B</i> , 2021 , 103,	3.3	1
291	Simulation of Inelastic Neutron Scattering Spectra Directly from Molecular Dynamics Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7702-7708	6.4	4
290	Vibrational Behavior of Water Adsorbed on Forsterite (Mg ₂ SiO ₄) Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 1050-1063	3.2	4

289	Topological magnon bands in a room-temperature kagome magnet. <i>Physical Review B</i> , 2020 , 101,	3.3	14
288	Magnetically driven phonon instability enables the metal-insulator transition in h-FeS. <i>Nature Physics</i> , 2020 , 16, 669-675	16.2	10
287	Realization of the orbital-selective Mott state at the molecular level in Ba ₃ LaRu ₂ O ₉ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	5
286	Structure and properties of densified silica glass: characterizing the order within disorder. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	19
285	High-resolution neutron time-of-flight measurements for light water at the Spallation Neutron Source (SNS), Oak Ridge National Laboratory. <i>EPJ Web of Conferences</i> , 2020 , 239, 14005	0.3	2
284	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
283	Vibrational modes and quantum zero-point energy of hydrogen in ZrH _{0.0155} and ZrH ₂ . <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152832	5.7	3
282	Unconventional Hund metal in a weak itinerant ferromagnet. <i>Nature Communications</i> , 2020 , 11, 3076	17.4	3
281	Neutron scattering study of tantalum dihydride. <i>Physical Review B</i> , 2020 , 102,	3.3	5
280	Analysis of the time-of-flight neutron scattering cross-section data for light water measured at the SEQUOIA spectrometer, Spallation Neutron Source (SNS). <i>EPJ Web of Conferences</i> , 2020 , 239, 14007	0.3	2
279	High-Pressure Hydrofullerites. <i>Journal of Surface Investigation</i> , 2020 , 14, 995-1002	0.5	1
278	Hydrogen Dynamics in Supercritical Water Probed by Neutron Scattering and Computer Simulations. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9461-9467	6.4	6
277	Effect of Hydration on the Molecular Dynamics of Hydroxychloroquine Sulfate. <i>ACS Omega</i> , 2020 , 5, 21231-21240	3.1	5
276	One-Dimensional Glassy Behavior of Ultraconfined Water Strings. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7798-7804	6.4	0
275	Probing Molecular Interactions at MXene/Organic Heterointerfaces. <i>Chemistry of Materials</i> , 2020 , 32, 7884-7894	9.6	10
274	Hydration-Induced Disorder Lowers the Energy Barriers for Methyl Rotation in Drug Molecules. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 10256-10261	6.4	5
273	Magnetic anisotropy in ferromagnetic CrI ₃ . <i>Physical Review B</i> , 2020 , 101,	3.3	25
272	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

271	Effect of fine-tuning pore structures on the dynamics of confined water. <i>Journal of Chemical Physics</i> , 2019 , 150, 204706	3.9	5
270	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(MeIm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 160-169	2.9	9
269	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
268	Optical Properties of Single-Crystal Germanium in the THz Range. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2019 , 126, 191-194	0.7	6
267	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
266	Magnetic Excitations of the Classical Spin Liquid MgCr ₂ O ₄ . <i>Physical Review Letters</i> , 2019 , 122, 097201	2.4	13
265	New Insights about CuO Nanoparticles from Inelastic Neutron Scattering. <i>Nanomaterials</i> , 2019 , 9,	5.4	1
264	Simulation of Inelastic Neutron Scattering Spectra Using OCLIMAX. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1974-1982	6.4	48
263	Toward a better thermal scattering law of (C ₅ O ₂ H ₈) _n : Inelastic neutron scattering and oClimax + NJOY2016. <i>Annals of Nuclear Energy</i> , 2019 , 133, 425-430	1.7	4
262	A Three-Component Mathematical Model of a Single-Axis Accelerometer for Measuring Pitch and Roll Angles. <i>Measurement Techniques</i> , 2019 , 62, 118-125	0.4	1
261	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
260	Magnetic ground state and magnetic excitations in black diopside Cu ₆ Si ₆ O ₁₈ . <i>Physical Review B</i> , 2019 , 100,	3.3	2
259	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18
258	Dynamic magnetic response across the pressure-induced structural phase transition in CeNi. <i>Physical Review B</i> , 2019 , 99,	3.3	1
257	Effect of chemical pressure on the crystal electric field states of erbium pyrochlore magnets. <i>Physical Review B</i> , 2018 , 97,	3.3	21
256	Intermediate-valence state of the Sm and Eu in SmB and EuCuSi: neutron spectroscopy data and analysis. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 055801	1.8	4
255	Magnetic excitations of the Cu ²⁺ quantum spin chain in Sr ₃ CuPtO ₆ . <i>Physical Review B</i> , 2018 , 97,	3.3	5
254	Dual Nature of Magnetism in a Uranium Heavy-Fermion System. <i>Physical Review Letters</i> , 2018 , 121, 057201	2.4	5

253	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
252	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
251	Inelastic and deep inelastic neutron spectroscopy of water molecules under ultra-confinement. <i>Journal of Physics: Conference Series</i> , 2018 , 1055, 012002	0.3	5
250	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
249	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
248	Magnetic interactions in PdCrO ₂ and their effects on its magnetic structure. <i>Physical Review B</i> , 2018 , 98,	3.3	9
247	Ice Ih revisited: No proton tunneling observed in a quasielastic neutron scattering experiment. <i>Physical Review B</i> , 2018 , 98,	3.3	6
246	Neutron scattering investigation of rhenium orbital ordering in the 3d ⁵ d double perovskite Ca ₂ FeReO ₆ . <i>Physical Review B</i> , 2018 , 98,	3.3	2
245	Combining Camera Relascope-Measured Field Plots and Multi-Seasonal Landsat 8 Imagery for Enhancing the Forest Inventory of Boreal Forests in Central Russia. <i>Remote Sensing</i> , 2018 , 10, 1796	5	1
244	Topological Spin Excitations in Honeycomb Ferromagnet CrI ₃ . <i>Physical Review X</i> , 2018 , 8,	9.1	82
243	Origin of magnetic excitation gap in double perovskite Sr ₂ FeOsO ₆ . <i>Physical Review B</i> , 2018 , 98,	3.3	8
242	Low-energy antiferromagnetic spin fluctuations limit the coherent superconducting gap in cuprates. <i>Physical Review B</i> , 2018 , 98,	3.3	12
241	Measuring of the dynamic load by use of strain-gauge balance axial component 2018 ,		1
240	Laser-ultrasonic temperature mapping of an acousto-optic dispersive delay line. <i>NDT and E International</i> , 2018 , 98, 171-176	4.1	11
239	Thermal scattering law of C ₂ H ₄ n : Integrating experimental data with DFT calculations. <i>Annals of Nuclear Energy</i> , 2018 , 120, 778-787	1.7	6
238	Magnetic ground state of the Ising-like antiferromagnet DyScO ₃ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
237	Spin pseudogap in the S=12 chain material Sr ₂ CuO ₃ with impurities. <i>Physical Review B</i> , 2017 , 95,	3.3	8
236	Hydrogen mobility in the lightest reversible metal hydride, LiBeH. <i>Scientific Reports</i> , 2017 , 7, 16244	4.9	6

235	iCaRL: Incremental Classifier and Representation Learning 2017 ,		468
234	LiDAR-Assisted Multi-Source Program (LAMP) for Measuring Above Ground Biomass and Forest Carbon. <i>Remote Sensing</i> , 2017 , 9, 154	5	11
233	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
232	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
231	Coupled antiferromagnetic spin-12 chains in green diopside $\text{Cu}_6[\text{Si}_6\text{O}_{18}]\cdot 6\text{H}_2\text{O}$. <i>Physical Review B</i> , 2016 , 93,	3.3	9
230	Neutron scattering studies of spin-phonon hybridization and superconducting spin gaps in the high-temperature superconductor $\text{La}_2\text{Ni}(\text{Sr},\text{Ba})_x\text{CuO}_4$. <i>Physical Review B</i> , 2016 , 93,	3.3	4
229	Spin-phonon coupling and high-pressure phase transitions of RMnO_3 (R=Ca and Pr): An inelastic neutron scattering and first-principles study. <i>Physical Review B</i> , 2016 , 93,	3.3	4
228	Spin-orbit coupling controlled ground state in $\text{Sr}_2\text{ScOsO}_6$. <i>Physical Review B</i> , 2016 , 93,	3.3	33
227	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. <i>Physical Review Letters</i> , 2016 , 116, 167802	7.4	73
226	Infrared and terahertz transmission properties of germanium single crystals. <i>Journal of Physics: Conference Series</i> , 2016 , 737, 012021	0.3	1
225	Optical properties of large germanium monocrystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016 , 120, 654-659	0.7	1
224	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
223	Thermal Imaging and Conoscopic Studies of Working Acousto-optical Devices on the Base of Paratellurite. <i>International Journal of Thermophysics</i> , 2016 , 37, 1	2.1	5
222	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
221	Multilayer graphene synthesized under high hydrogen pressure. <i>Carbon</i> , 2016 , 100, 465-473	10.4	23
220	Quasiparticle-continuum level repulsion in a quantum magnet. <i>Nature Physics</i> , 2016 , 12, 224-229	16.2	24
219	Improving Weakly-Supervised Object Localization By Micro-Annotation 2016 ,		11
218	Seed, Expand and Constrain: Three Principles for Weakly-Supervised Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 695-711	0.9	173

217	Decentralized Control of a Group of Homogeneous Vehicles in Obstructed Environment. <i>Journal of Control Science and Engineering</i> , 2016 , 2016, 1-8	1.2	4
216	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
215	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
214	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
213	Pressure effect on hydrogen tunneling and vibrational spectrum in δ Mn. <i>Physical Review B</i> , 2016 , 94,	3.3	6
212	Quantum effects in the dynamics of deeply supercooled water. <i>Physical Review E</i> , 2015 , 91, 022312	2.4	17
211	Thermodynamic Properties of δ Fe ₂ O ₃ and Fe ₃ O ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 9609-9616	3.8	8
210	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
209	Surface micromorphology of germanium single-crystal boules grown from melt. <i>Journal of Surface Investigation</i> , 2015 , 9, 630-635	0.5	3
208	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
207	CaMn ₂ Sb ₂ : Spin waves on a frustrated antiferromagnetic honeycomb lattice. <i>Physical Review B</i> , 2015 , 91,	3.3	31
206	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
205	Wang et al. Reply. <i>Physical Review Letters</i> , 2015 , 115, 149802	7.4	1
204	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
203	Inelastic neutron scattering studies of YFeO ₃ . <i>Physical Review B</i> , 2014 , 89,	3.3	38
202	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
201	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
200	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

199	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
198	Unsupervised segmentation and approximation of digital curves with rate-distortion curve modeling. <i>Pattern Recognition</i> , 2014 , 47, 623-633	7.7	6
197	Measurement of proton momentum distributions using a direct geometry instrument. <i>Journal of Physics: Conference Series</i> , 2014 , 571, 012007	0.3	9
196	Neutron Scattering Study on f-Electron States in PrCu ₄ Au 2014 ,		2
195	Neutron Scattering of CeNi at the SNS-ORNL: A Preliminary Report. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1683, 26		
194	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
193	Origin of the charge gap in LaMnPO. <i>Physical Review B</i> , 2014 , 90,	3.3	14
192	Strong anisotropic dynamics of ultra-confined water. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 13414-9	3.4	22
191	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
190	Terahertz image processing for the skin cancer diagnostic 2014 ,		2
189	Conversion of CH ₄ into H ₂ at 300C Using Pd/MnO ₂ Catalyst Made with an Effect of Water Oxidation. <i>ECS Transactions</i> , 2014 , 58, 81-85	1	1
188	Closed-Form Approximate CRF Training for Scalable Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 550-565	0.9	5
187	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
186	Surface structure of large germanium single crystals. <i>Journal of Surface Investigation</i> , 2013 , 7, 1060-1062	0.5	1
185	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
184	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
183	Refinement of the crystal structure of the high-temperature phase G 0 in (NH ₄) ₂ WO ₂ F ₄ (powder, X-ray, and neutron scattering). <i>Crystallography Reports</i> , 2013 , 58, 129-134	0.6	2
182	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

181	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
180	Spin pseudogap in Ni-doped SrCuO ₂ . <i>Physical Review Letters</i> , 2013 , 111, 067204	7.4	33
179	Phase diagram and magnetic structures of the Co-bearing dugganites Pb ₃ TeCo ₃ A ₂ O ₁₄ (A = V, P). <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 246004	1.8	6
178	The thermodynamic properties of hydrated Al ₂ O ₃ nanoparticles. <i>Journal of Chemical Physics</i> , 2013 , 139, 244705	3.9	14
177	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
176	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
175	Search for the first-order liquid-to-liquid phase transition in low-temperature confined water by neutron scattering 2013 ,		2
174	Segmentation and multi-model approximation of digital curves. <i>Pattern Recognition Letters</i> , 2012 , 33, 1171-1179	4.7	7
173	ISE-bounded polygonal approximation of digital curves. <i>Pattern Recognition Letters</i> , 2012 , 33, 1329-1337	4.7	17
172	Combined inelastic neutron scattering and solid-state DFT study of dynamics of hydrogen atoms in trioctahedral 1M phlogopite. <i>Physics and Chemistry of Minerals</i> , 2012 , 39, 779-787	1.6	1
171	Evidence for an anomalous quantum state of protons in nanoconfined water. <i>Physical Review B</i> , 2012 , 85,	3.3	48
170	Electrochemical property of proton-conductive manganese dioxide for sensing hydrogen gas concentration. <i>Solid State Ionics</i> , 2012 , 225, 282-285	3.3	6
169	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
168	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. <i>Carbon</i> , 2012 , 50, 1071-1082	10.4	21
167	Ab initio simulation of hydrogen bonding in ices under ultra-high pressure. <i>Journal of Chemical Physics</i> , 2012 , 137, 204507	3.9	15
166	Determining the Number of Clusters with Rate-Distortion Curve Modeling. <i>Lecture Notes in Computer Science</i> , 2012 , 43-50	0.9	2
165	Neutron spectroscopy of magnesium dihydride. <i>Journal of Alloys and Compounds</i> , 2011 , 509, S599-S603	5.7	10
164	Efficient Online Algorithms for the Polygonal Approximation of Trajectory Data 2011 ,		4

163	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
162	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
161	Energetics of single-wall carbon nanotubes as revealed by calorimetry and neutron scattering. <i>Carbon</i> , 2011 , 49, 949-954	10.4	17
160	Sensing hydrogen gas concentration using electrolyte made of proton conductive manganese dioxide. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 893-896	8.5	6
159	Quasielastic neutron scattering study of water confined in carbon nanopores. <i>Europhysics Letters</i> , 2011 , 95, 56001	1.6	22
158	Determination of the magnetic contribution to the heat capacity of cobalt oxide nanoparticles and the thermodynamic properties of the hydration layers. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 205303	1.8	4
157	Evolution of the phonon density of states of LaCoO ₃ over the spin state transition. <i>Physical Review B</i> , 2011 , 83,	3.3	5
156	Singlet-triplet excitations in the unconventional spin-Peierls TiOBr compound. <i>Physical Review Letters</i> , 2011 , 106, 117401	7.4	8
155	Dynamics of Water Confined on the Surface of Titania and Cassiterite Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1352, 47		2
154	Combined inelastic neutron scattering and solid-state density functional theory study of dynamics of hydrogen atoms in muscovite 2M1. <i>American Mineralogist</i> , 2011 , 96, 301-307	2.9	4
153	Nonparametric polygonal and multimodel approximation of digital curves with Rate-Distortion curve modeling 2011 ,		3
152	Phonon density of states of model ferroelectrics. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1262, 1		0
151	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
150	Approximation of digitized curves with cubic B-splines 2010 ,		3
149	Fast algorithm for error-bounded compression of digital curves 2010 ,		1
148	Kondo behavior, ferromagnetic correlations, and crystal fields in the heavy-fermion compounds Ce ₃ X (X=In,Sn). <i>Physical Review B</i> , 2010 , 81,	3.3	6
147	SEQUOIA: A Newly Operating Chopper Spectrometer at the SNS. <i>Journal of Physics: Conference Series</i> , 2010 , 251, 012058	0.3	142
146	Structural defects in germanium single crystals. <i>Journal of Surface Investigation</i> , 2010 , 4, 994-997	0.5	8

145	Minimum Description Length approximation of digital curves 2009 ,		4
144	Conversion method of powder inelastic scattering data for one-dimensional systems. <i>Applied Physics Letters</i> , 2009 , 94, 092502	3.4	16
143	Structure of water in mesoporous organosilica by calorimetry and inelastic neutron scattering. <i>Surface Science</i> , 2009 , 603, 71-77	1.8	10
142	Inelastic neutron scattering study of the specific features of the phase transitions in (NH ₄) ₂ WO ₂ F ₄ . <i>Physics of the Solid State</i> , 2009 , 51, 2362-2366	0.8	3
141	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
140	Neutron spectroscopy of H impurities in PdD: Covibrations of the H and D atoms. <i>Physical Review B</i> , 2009 , 80,	3.3	10
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