

# Michael Marek Koza

## 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.

161  
papers

3,818  
citations

38  
h-index

54  
g-index

168  
ext. papers

4,211  
ext. citations

4.3  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
161	Diffusion in dense supercritical methane from quasi-elastic neutron scattering measurements. <i>Nature Communications</i> , <b>2021</b> , 12, 1958	17.4	2
160	Quantifying and Controlling Entanglement in the Quantum Magnet Cs <sub>2</sub> CoCl <sub>4</sub> . <i>Physical Review Letters</i> , <b>2021</b> , 127, 037201	7.4	3
159	Water Mobility in the Interfacial Liquid Layer of Ice/Clay Nanocomposites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 7697-7702	16.4	3
158	Wassermobilität in der grenzflächeninduzierten Schmelzschicht von Eis/Tonmineral-Nanokompositen. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 7775-7781	3.6	0
157	Temperature-dependent dynamic structure factors for liquid water inferred from inelastic neutron scattering measurements. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 024502	3.9	2
156	Gradual pressure-induced enhancement of magnon excitations in CeCoSi. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	6
155	Anisotropic low-energy vibrational modes as an effect of cage geometry in the binary barium silicon clathrate Ba <sub>24</sub> Si <sub>100</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
154	Disorder and magnetic excitations in CaCr <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> (x=0,0.5). <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
153	Muon spin rotation and neutron scattering investigations of the B-site ordered double perovskite Sr <sub>2</sub> DyRuO <sub>6</sub> . <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	4
152	Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon. <i>Carbon</i> , <b>2020</b> , 166, 307-315	10.4	1
151	A neutron scattering perspective on the structure, softness and dynamics of the ligand shell of PbS nanocrystals in solution. <i>Chemical Science</i> , <b>2020</b> , 11, 8875-8884	9.4	3
150	Vibrational dynamics of the type-I clathrates A <sub>8</sub> Sn <sub>44</sub> ? <sub>2</sub> (A = Cs, Rb, K) from lattice-dynamics calculations, inelastic neutron scattering, and specific heat measurements. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 145104	2.5	3
149	A Quasielastic Neutron Scattering Investigation on the Molecular Self-Dynamics of Human Myelin Protein P2. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 8178-8185	3.4	3
148	Lattice Dynamics Study of Thermoelectric Oxychalcogenide BiCuChO (Ch = Se, S). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16046-16057	3.8	9
147	In Vivo Water Dynamics in <i>Shewanella oneidensis</i> Bacteria at High Pressure. <i>Scientific Reports</i> , <b>2019</b> , 9, 8716	4.9	7
146	Insight into Design of Improved Oxide Ion Conductors: Dynamics and Conduction Mechanisms in the BiVO Solid Electrolyte. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 9989-9997	16.4	8
145	Dynamics of a family of cyan fluorescent proteins probed by incoherent neutron scattering. <i>Journal of the Royal Society Interface</i> , <b>2019</b> , 16, 20180848	4.1	1

144	Magnetoelastic hybrid excitations in CeAuAl. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6695-6700	11.5	14
143	Self- and interdiffusion in dilute liquid germanium-based alloys. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 455101	1.8	8
142	Quantum Dynamics of H <sub>2</sub> and D <sub>2</sub> Confined in Hydrate Structures as a Function of Pressure and Temperature. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1888-1903	3.8	8
141	Role of the doping level in localized proton motions in acceptor-doped barium zirconate proton conductors. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 13697-13704	3.6	15
140	Absence of a long-range ordered magnetic ground state in PrRhSn studied through specific heat and inelastic neutron scattering. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 145601	1.8	3
139	Proton jump diffusion dynamics in hydrated barium zirconates studied by high-resolution neutron backscattering spectroscopy. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7538-7546	13	16
138	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr <sub>2</sub> X <sub>4</sub> (X=Se, S). <i>Physical Review Letters</i> , <b>2018</b> , 120, 137201	7.4	12
137	Study of the hydration level in proton conducting oxides using neutron diffraction with polarization analysis. <i>Solid State Ionics</i> , <b>2018</b> , 324, 163-167	3.3	1
136	Influence of Enantiomeric Inhibitors on the Dynamics of Acetylcholinesterase Measured by Elastic Incoherent Neutron Scattering. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 8516-8525	3.4	4
135	Understanding the magnetism in noncentrosymmetric CeIrGe <sub>3</sub> : Muon spin relaxation and neutron scattering studies. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	7
134	Inelastic neutron scattering study of the lattice dynamics of the homologous compounds (PbSe)(BiSe) <sub>m</sub> (m = 1, 2 and 3). <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14597-14607	3.6	5
133	Probing the dynamics of complexed local anesthetics via neutron scattering spectroscopy and DFT calculations. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 524, 397-406	6.5	10
132	Localized Proton Motions in Acceptor-Doped Barium Zirconates. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 7088-7093	3.8	14
131	Raman and Infrared spectroscopies and X-ray diffraction data on bupivacaine and ropivacaine complexed with 2-hydroxypropyl-β-cyclodextrin. <i>Data in Brief</i> , <b>2017</b> , 15, 25-29	1.2	10
130	Magnetic structures and excitations in CePd <sub>2</sub> (Al,Ga) <sub>2</sub> series: Development of the Néel states. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	14
129	Fast methane diffusion at the interface of two clathrate structures. <i>Nature Communications</i> , <b>2017</b> , 8, 1076	17.4	20
128	Changes in dynamics of α-chymotrypsin due to covalent inhibitors investigated by elastic incoherent neutron scattering. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25369-25379	3.6	4
127	Diffusion of Carbon Dioxide and Nitrogen in the Small-Pore Titanium Bis(phosphonate) Metal-Organic Framework MIL-91 (Ti): A Combination of Quasielastic Neutron Scattering Measurements and Molecular Dynamics Simulations. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2739-2746	3.2	7

126	Charge density wave quantum critical point with strong enhancement of superconductivity. <i>Nature Physics</i> , <b>2017</b> , 13, 967-972	16.2	41
125	Influence of packing density and viscosity on the growth of dynamic heterogeneity while cooling metallic melts. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 051903	3.4	1
124	Direct comparison of elastic incoherent neutron scattering experiments with molecular dynamics simulations of DMPC phase transitions. <i>European Physical Journal E</i> , <b>2016</b> , 39, 48	1.5	16
123	Dynamics of human acetylcholinesterase bound to non-covalent and covalent inhibitors shedding light on changes to the water network structure. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 12992-3001	3.6	25
122	Proton Dynamics in Hydrated BaZr <sub>0.9</sub> M <sub>0.1</sub> O <sub>2.95</sub> (M = Y and Sc) Investigated with Neutron SpinEcho. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13963-13969	3.8	12
121	Nickel self-diffusion in a liquid and undercooled NiSi alloy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
120	Dynamical Crossover in Hot Dense Water: The Hydrogen Bond Role. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 9051-9	3.4	15
119	Lattice dynamics and thermoelectric properties of nanocrystalline silicon-germanium alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 515-523	1.6	8
118	Diffusion of CH <sub>4</sub> in ZIF-8 Studied by Quasi-Elastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 16115-16120	3.8	26
117	Atomic caging in multicomponent glass-forming metallic liquids. <i>Europhysics Letters</i> , <b>2015</b> , 110, 46001	1.6	4
116	Low-energy phonon dispersion in LaFe <sub>4</sub> Sb <sub>12</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	10
115	Origin of the highly anisotropic thermal expansion of the semiconducting ZnSb and relations with its thermoelectric applications. <i>RSC Advances</i> , <b>2015</b> , 5, 87118-87131	3.7	10
114	Contrasting effect of La substitution on the magnetic moment direction in the Kondo semiconductors CeT <sub>2</sub> Al <sub>10</sub> (T=Ru,Os). <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	8
113	Simple view of the Mg <sub>2</sub> Si <sub>1-x</sub> Sn <sub>x</sub> phonon spectrum: Sn resonances and mean field. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
112	Muon spin rotation and neutron scattering study of the noncentrosymmetric tetragonal compound CeAuAl <sub>3</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	13
111	Ferromagnetic fluctuations in YbNi <sub>4</sub> P <sub>2</sub> measured by inelastic neutron scattering. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 592, 012083	0.3	4
110	From crystal to glass-like thermal conductivity in crystalline minerals. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 19751-8	3.6	77
109	Inelastic neutron scattering study of the lattice dynamics in the clathrate compound BaGe <sub>3</sub> <i>Journal of Physics Condensed Matter</i> , <b>2015</b> , 27, 485401	1.8	5

108	On the microscopic dynamics of the 'Einstein solids' $\text{AlV}_2\text{Al}_{20}$ and $\text{GaV}_2\text{Al}_{20}$ , and of $\text{YV}_2\text{Al}_{20}$ : a benchmark system for 'rattling' excitations. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 24837-50	3.6	11
107	Determination of conformational entropy of fully and partially folded conformations of holo- and apomyoglobin. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 72-82	3.4	20
106	Dynamics of the Peripheral Membrane Protein P2 from Human Myelin Measured by Neutron Scattering--A Comparison between Wild-Type Protein and a Hinge Mutant. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128954	3.7	13
105	Vibrational dynamics of the filled skutterudite $\text{Yb}_1\text{Fe}_4\text{Sb}_{12}$ : Debye-Waller factor, generalized density of states, and elastic structure factor. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	12
104	Correlation of the dynamics of native human acetylcholinesterase and its inhibited huperzine A counterpart from sub-picoseconds to nanoseconds. <i>Journal of the Royal Society Interface</i> , <b>2014</b> , 11, 20140372	4.1	15
103	Nanocrystalline silicon: lattice dynamics and enhanced thermoelectric properties. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25701-9	3.6	45
102	Adsorption and Diffusion of Light Hydrocarbons in $\text{UiO}-66(\text{Zr})$ : A Combination of Experimental and Modeling Tools. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 27470-27482	3.8	60
101	Diffusion of Light Hydrocarbons in the Flexible MIL-53(Cr) Metal-Organic Framework: A Combination of Quasi-Elastic Neutron Scattering Experiments and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 14471-14477	3.8	35
100	Novel rattling of K atoms in aluminium-doped defect pyrochlore tungstate. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 305401	1.8	2
99	The boson peak of amyloid fibrils: probing the softness of protein aggregates by inelastic neutron scattering. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2913-23	3.4	5
98	Picosecond dynamics in haemoglobin from different species: a quasielastic neutron scattering study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2014</b> , 1840, 2989-99	4	14
97	In-beam test of the Boron-10 Multi-Grid neutron detector at the IN6 time-of-flight spectrometer at the ILL. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 528, 012040	0.3	14
96	Effect of the electropositive elements $A = \text{Sc}, \text{La}, \text{and Ce}$ on the microscopic dynamics of $\text{AV}_2\text{Al}_{20}$ . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 27119-33	3.6	19
95	Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 124501	3.9	60
94	Lattice dynamics in intermetallic $\text{Mg}_2\text{Ge}$ and $\text{Mg}_2\text{Si}$ . <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 485401	1.8	12
93	QENS-WINS, Autrans, May 11-16, 2014. <i>Neutron News</i> , <b>2014</b> , 25, 14-15	0.4	
92	Translational and rotational diffusion in water in the Gigapascal range. <i>Physical Review Letters</i> , <b>2013</b> , 111, 185901	7.4	58
91	Neutron diffraction study of polycrystalline $^4\text{He}$ in a porous medium. <i>JETP Letters</i> , <b>2013</b> , 98, 233-236	1.2	

90	Effects of impurities on the lattice dynamics of nanocrystalline silicon for thermoelectric application. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 2836-2845	4.3	19
89	Static and dynamic structure factor in solid $^4\text{He}$ : Absence of a glassy phase. <i>Europhysics Letters</i> , <b>2013</b> , 101, 26002	1.6	2
88	Crystalline electric field splitting in $\text{YbNi}_4\text{P}_2$ measured by inelastic neutron scattering. <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 522-524	1.3	5
87	Diffusion of Binary $\text{CO}_2/\text{CH}_4$ Mixtures in the MIL-47(V) and MIL-53(Cr) MetalOrganic Framework Type Solids: A Combination of Neutron Scattering Measurements and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11275-11284	3.8	42
86	Polymorphic drugs examined with neutron spectroscopy: Is making more stable forms really that simple?. <i>Chemical Physics</i> , <b>2013</b> , 427, 124-128	2.3	7
85	Vibrational Dynamics of Filled Skutterudites $\text{LaT}_4\text{X}_{12}$ ( $\text{T} = \text{Fe, Ru, Os}$ , $\text{X} = \text{As, Sb}$ ). <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 114607	1.5	13
84	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet $\text{CeCoGe}_3$ . <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	38
83	Characteristic energy scales in $\text{CePdAl}$ . <i>Physica Status Solidi (B): Basic Research</i> , <b>2013</b> , 250, 468-471	1.3	6
82	Phonons in lanthanum manganite: Inelastic neutron scattering and density functional theory studies. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	2
81	Muon spin relaxation and neutron scattering investigations of the noncentrosymmetric heavy-fermion antiferromagnet $\text{CeRhGe}_3$ . <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	34
80	Quasielastic Neutron Scattering Study on the Dynamics of Poly(alkylene oxide)s. <i>Macromolecules</i> , <b>2012</b> , 45, 4394-4405	5.5	34
79	Application of incoherent inelastic neutron scattering in pharmaceutical analysis: relaxation dynamics in phenacetin. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 2434-41	5.6	15
78	Evolution of quantum criticality in the system $\text{CeNi}_9\text{Ge}_4$ . <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 344, 012001	0.3	4
77	Advanced functionalized materials. <i>Neutron News</i> , <b>2012</b> , 23, 15-19	0.4	
76	Aerodynamic levitation and laser heating:. <i>European Physical Journal: Special Topics</i> , <b>2011</b> , 196, 151-165	2.3	40
75	Antimony-Based Compounds with the Anti-Th $3\text{P}_4$ Structure as Potential High-Temperature Thermoelectric Materials. <i>Journal of Electronic Materials</i> , <b>2011</b> , 40, 1171-1175	1.9	1
74	Vibrational dynamics of the filled skutterudites $\text{M}_1\text{Fe}_4\text{Sb}_{12}$ ( $\text{M} = \text{Ca, Sr, Ba, and Yb}$ ): Temperature response, dispersion relation, and material properties. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	26
73	Generalized phonon density of states of $\text{Mo}_3\text{Sb}_7$ and $\text{Mo}_3\text{Sb}_{5.4}\text{Te}_{1.6}$ from inelastic neutron scattering and lattice dynamical calculations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	4

72	Increased molecular mobility in humid silk fibers under tensile stress. <i>Physical Review E</i> , <b>2011</b> , 83, 016104.	4.4	17
71	Observation of a superfluid component within solid helium. <i>Physical Review Letters</i> , <b>2011</b> , 107, 265301	7.4	10
70	Crystal-field and Kondo-scale investigations of CeMIn <sub>5</sub> (M=Co, Ir, and Rh): A combined x-ray absorption and inelastic neutron scattering study. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	65
69	Inelastic neutron scattering and frequency-domain magnetic resonance studies of S=4 and S=12 Mn <sub>6</sub> single-molecule magnets. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	20
68	Vibrational dynamics of filled skutterudites M <sub>1-x</sub> Fe <sub>4</sub> Sb <sub>12</sub> (M=Ca, Sr, Ba, and Yb). <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	37
67	Vibrational dynamics of the type-I clathrate Ba <sub>8</sub> Zn <sub>x</sub> Ge <sub>46</sub> Y <sub>2</sub> (x=0,2,4,6,8). <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	21
66	Dynamics of heparan sulfate explored by neutron scattering. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 3360-2	3.6	33
65	Coexistence of superfluid and solid helium in aerogel. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 111, 215-219	1	2
64	Influence of Doping on Structural and Thermoelectric Properties of AgSbSe <sub>2</sub> . <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 2053-2058	1.9	21
63	Neutron scattering study of water confined in periodic mesoporous organosilicas. <i>Journal of Solid State Chemistry</i> , <b>2010</b> , 183, 1691-1696	3.3	3
62	Observation of subtle dynamic transitions by a combination of neutron scattering, X-ray diffraction and DSC: a case study of the monoclinic L-cysteine. <i>Biophysical Chemistry</i> , <b>2010</b> , 148, 34-41	3.5	25
61	Boson peak in alkaline borate glasses: Raman spectroscopy, neutron scattering, and specific-heat measurements. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	40
60	Spin dynamics of the frustrated easy-axis triangular antiferromagnet 2H-AgNiO <sub>2</sub> explored by inelastic neutron scattering. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	22
59	Spin excitations in frustrated A-site spinels investigated with inelastic neutron scattering. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	32
58	Transient Pronounced Density Variation in Amorphous Ice Structures. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2009</b> , 223, 979-1000	3.1	3
57	Dynamics of apomyoglobin in the alpha-to-beta transition and of partially unfolded aggregated protein. <i>European Biophysics Journal</i> , <b>2009</b> , 38, 237-44	1.9	17
56	Quasielastic neutron scattering of hydrated BaZr <sub>0.90</sub> A <sub>0.10</sub> O <sub>2.95</sub> (A = Y and Sc). <i>Solid State Ionics</i> , <b>2009</b> , 180, 22-28	3.3	30
55	Observation of a superfluid phase in solid helium. <i>JETP Letters</i> , <b>2008</b> , 87, 645-648	1.2	3



54	Breakdown of phonon glass paradigm in La- and Ce-filled Fe <sub>4</sub> Sb <sub>12</sub> skutterudites. <i>Nature Materials</i> , <b>2008</b> , 7, 805-10	27	261
53	Spin-glass order induced by dynamic frustration. <i>Nature Physics</i> , <b>2008</b> , 4, 766-770	16.2	56
52	Liquid Al <sub>80</sub> Cu <sub>20</sub> : Atomic diffusion and viscosity. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 121905	3.4	38
51	Crystalline electric field effects in PrNi <sub>2</sub> B <sub>2</sub> C: Inelastic neutron scattering. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	7
50	Vibrational dynamics and phonon dispersion of polycrystalline ice XII and of high-density amorphous ice. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	14
49	Formation and annealing of cubic ice: II. Kinetic study. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 285105	1.8	47
48	Experimental evidence supported by simulations of a very high H <sub>2</sub> diffusion in metal organic framework materials. <i>Physical Review Letters</i> , <b>2008</b> , 100, 245901	7.4	94
47	Vibrational dynamics of amorphous ice structures studied by high-resolution neutron spectroscopy. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	16
46	Vibrational dynamics of very high density amorphous ice studied by high-resolution x-ray spectroscopy. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	13
45	Structure-property relationships in the crystals of the smallest amino acid: an incoherent inelastic neutron scattering study of the glycine polymorphs. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 8748-59	3.4	44
44	Formation and annealing of cubic ice: I. Modelling of stacking faults. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 285104	1.8	63
43	Charge disproportionation and collinear magnetic order in the frustrated triangular antiferromagnet AgNiO <sub>2</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	27
42	Phonon density of states, anharmonicity, electron-phonon coupling, and possible multigap superconductivity in the clathrate superconductors Ba <sub>8</sub> Si <sub>46</sub> and Ba <sub>24</sub> Si <sub>100</sub> : Factors behind large difference in T <sub>c</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	41
41	Generalized density-of-states and anharmonicity of the low-energy phonon bands from coherent inelastic neutron scattering response in the pyrochlore osmates AOs <sub>2</sub> O <sub>6</sub> (A=K,Rb,Cs). <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	48
40	Dynamic singularity in multicomponent glass-forming metallic liquids. <i>Physical Review Letters</i> , <b>2008</b> , 101, 037801	7.4	43
39	Silkworm Silk under Tensile Strain Investigated by Synchrotron X-ray Diffraction and Neutron Spectroscopy. <i>Macromolecules</i> , <b>2007</b> , 40, 1035-1042	5.5	42
38	Multi-step magnetic ordering in frustrated thiospinel MnSc <sub>2</sub> S <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 145262	1.8	5
37	Magnetic dynamics of the spin-glass system PrAu <sub>2</sub> Si <sub>2</sub> : An inelastic neutron scattering study. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1535-1536	2.8	7



36	On the heterogeneous character of water's amorphous polymorphism. <i>Journal of Applied Crystallography</i> , <b>2007</b> , 40, s517-s521	3.8	25
35	Surface excitations in liquid helium nanofilms. <i>Crystallography Reports</i> , <b>2007</b> , 52, 466-470	0.6	1
34	Dynamics of argon in confined geometry. <i>European Physical Journal: Special Topics</i> , <b>2007</b> , 141, 117-120	2.3	2
33	Ternary clathrates BaZnTe: phase equilibria, crystal chemistry and physical properties. <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 216223	1.8	46
32	Experimental evidence for a crossover between two distinct mechanisms of amorphization in ice Ih under pressure. <i>Physical Review Letters</i> , <b>2007</b> , 99, 175501	7.4	36
31	Clathrate formation in the Ba-Pd-Ge system: Phase equilibria, crystal structure, and physical properties. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	45
30	Probing the phonon density of states in the superconducting Si clathrates from inelastic neutron scattering experiments. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012121	0.3	4
29	Lattice dynamics of Sr <sub>2</sub> TiO <sub>4</sub> . <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 92, 012172	0.3	3
28	Atomic dynamics in liquid KxSb <sub>1-x</sub> alloys. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 3145-3148	3.9	4
27	Temperature dependence of the low-energy crystal field excitation in PrOs <sub>4</sub> Sb <sub>12</sub> : effect of the energy gap. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 378-380, 58-59	2.8	3
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25	Coexistence of ferromagnetic and antiferromagnetic spin correlations in La <sub>1.2</sub> Sr <sub>1.8</sub> Mn <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	6
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23	Formation of channels for fast-ion diffusion in alkali silicate melts: A quasielastic neutron scattering study. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	37
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21	Experimental determination of the phonon density of states in filled skutterudites: evidence for a localized mode of the filling atom. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 1617-9	3.6	17
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17	Nature of amorphous polymorphism of water. <i>Physical Review Letters</i> , <b>2005</b> , 94, 125506	7.4	61
16	Evidence for two distinct spin relaxation mechanisms in "hot" spin ice Ho <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S635-S642	1.8	63
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12	Crystalline inelastic response of high-density amorphous ice. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	31
11	Atomic diffusion in liquid Ni, NiP, PdNiP, and PdNiCuP alloys. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4881-4883	3.4	74
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