Michael Marek Koza

List of Publications by Citations

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	Breakdown of phonon glass paradigm in La- and Ce-filled Fe4Sb12 skutterudites. *Nature Materials*, **2008**, 7, 805-10	27	261
160	Influence of chemical short-range order on atomic diffusion in AlNi melts. *Applied Physics Letters*, **2005**, 86, 011918	3.4	97
159	Experimental evidence supported by simulations of a very high H2 diffusion in metal organic framework materials. *Physical Review Letters*, **2008**, 100, 245901	7.4	94
158	Strong renormalization of phonon frequencies in Mg(1-x)Al(x)B2. *Physical Review Letters*, **2002**, 88, 067001	7.4	86
157	From crystal to glass-like thermal conductivity in crystalline minerals. *Physical Chemistry Chemical Physics*, **2015**, 17, 19751-8	3.6	77
156	Formation of ice XII at different conditions. *Nature*, **1999**, 397, 660-661	50.4	76
155	Kinetics of the high- to low-density amorphous water transition. *Journal of Physics Condensed Matter*, **2003**, 15, 321-332	1.8	74
154	Atomic diffusion in liquid Ni, NiP, PdNiP, and PdNiCuP alloys. *Applied Physics Letters*, **2004**, 85, 4881-4883	3.4	74
153	Crystal-like high frequency phonons in the amorphous phases of solid water. *Physical Review Letters*, **2000**, 85, 4100-3	7.4	72
152	Nanofibrillar Structure and Molecular Mobility in Spider Dragline Silk. *Macromolecules*, **2005**, 38, 8447-8453	5.5	69
151	Crystal-field and Kondo-scale investigations of CeMIn5 (M=Co, Ir, and Rh): A combined x-ray absorption and inelastic neutron scattering study. *Physical Review B*, **2010**, 81,	3.3	65
150	Formation and annealing of cubic ice: I. Modelling of stacking faults. *Journal of Physics Condensed Matter*, **2008**, 20, 285104	1.8	63
149	Evidence for two distinct spin relaxation mechanisms in hot spin ice Ho2Ti2O7. *Journal of Physics Condensed Matter*, **2004**, 16, S635-S642	1.8	63
148	Vibronic and magnetic excitations in the spin-orbital liquid state of FeSc2S4. *Physical Review Letters* , **2005**, 94, 237402	7.4	62
147	Nature of amorphous polymorphism of water. *Physical Review Letters*, **2005**, 94, 125506	7.4	61
146	Adsorption and Diffusion of Light Hydrocarbons in UiO-66(Zr): A Combination of Experimental and Modeling Tools. *Journal of Physical Chemistry C*, **2014**, 118, 27470-27482	3.8	60
145	Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. *Journal of Chemical Physics*, **2014**, 140, 124501	3.9	60

144	Translational and rotational diffusion in water in the Gigapascal range. *Physical Review Letters*, **2013**, 111, 185901	7.4	58
143	Fast diffusion in ZrTiCuNiBe melts. *Applied Physics Letters*, **2003**, 83, 3894-3896	3.4	58
142	Ice XII in its second regime of metastability. *Physical Review Letters*, **2000**, 84, 4112-5	7.4	57
141	Spin-glass order induced by dynamic frustration. *Nature Physics*, **2008**, 4, 766-770	16.2	56
140	Generalized density-of-states and anharmonicity of the low-energy phonon bands from coherent inelastic neutron scattering response in the pyrochlore osmates AOs2O6 (A=K,Rb,Cs). *Physical Review B*, **2008**, 78,	3.3	48
139	Formation and annealing of cubic ice: II. Kinetic study. *Journal of Physics Condensed Matter*, **2008**, 20, 285105	1.8	47
138	Ternary clathrates Ba□nGe: phase equilibria, crystal chemistry and physical properties. *Journal of Physics Condensed Matter*, **2007**, 19, 216223	1.8	46
137	Nanocrystalline silicon: lattice dynamics and enhanced thermoelectric properties. *Physical Chemistry Chemical Physics*, **2014**, 16, 25701-9	3.6	45
136	Clathrate formation in the Ba-Pd-Ge system: Phase equilibria, crystal structure, and physical properties. *Physical Review B*, **2007**, 76,	3.3	45
135	Structure-property relationships in the crystals of the smallest amino acid: an incoherent inelastic neutron scattering study of the glycine polymorphs. *Journal of Physical Chemistry B*, **2008**, 112, 8748-59	3.4	44
134	Magnetic ordering and spin excitations in the frustrated magnet MnSc2S4. *Physical Review B*, **2006**, 73,	3.3	44
133	Dynamic singularity in multicomponent glass-forming metallic liquids. *Physical Review Letters*, **2008**, 101, 037801	7.4	43
132	Diffusion of Binary CO2/CH4 Mixtures in the MIL-47(V) and MIL-53(Cr) Metal□Organic Framework Type Solids: A Combination of Neutron Scattering Measurements and Molecular Dynamics Simulations. *Journal of Physical Chemistry C*, **2013**, 117, 11275-11284	3.8	42
131	Silkworm Silk under Tensile Strain Investigated by Synchrotron X-ray Diffraction and Neutron Spectroscopy. *Macromolecules*, **2007**, 40, 1035-1042	5.5	42
130	Charge density wave quantum critical point with strong enhancement of superconductivity. *Nature Physics*, **2017**, 13, 967-972	16.2	41
129	Phonon density of states, anharmonicity, electron-phonon coupling, and possible multigap superconductivity in the clathrate superconductors Ba8Si46 and Ba24Si100: Factors behind large difference in Tc. *Physical Review B*, **2008**, 77,	3.3	41
128	Anharmonicity and guest□host coupling in clathrate hydrates. *Physical Chemistry Chemical Physics*, **2002**, 4, 4809-4816	3.6	41
127	Aerodynamic levitation and laser heating:. *European Physical Journal: Special Topics*, **2011**, 196, 151-165	2.3	40

126	Boson peak in alkaline borate glasses: Raman spectroscopy, neutron scattering, and specific-heat measurements. *Physical Review B*, **2009**, 79,	3.3	40
125	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet CeCoGe3. *Physical Review B*, **2013**, 88,	3.3	38
124	Liquid Al80Cu20: Atomic diffusion and viscosity. *Applied Physics Letters*, **2008**, 93, 121905	3.4	38
123	Vibrational dynamics of filled skutterudites M1−xFe4Sb12 (M=Ca, Sr, Ba, and Yb). *Physical Review B*, **2010**, 81,	3.3	37
122	Formation of channels for fast-ion diffusion in alkali silicate melts: A quasielastic neutron scattering study. *Physical Review B*, **2006**, 74,	3.3	37
121	Experimental evidence for a crossover between two distinct mechanisms of amorphization in ice Ih under pressure. *Physical Review Letters*, **2007**, 99, 175501	7.4	36
120	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. *Journal of Physical Chemistry C*, **2014**, 118, 14471-14477	3.8	35
119	Muon spin relaxation and neutron scattering investigations of the noncentrosymmetric heavy-fermion antiferromagnet CeRhGe3. *Physical Review B*, **2012**, 85,	3.3	34
118	Quasielastic Neutron Scattering Study on the Dynamics of Poly(alkylene oxide)s. *Macromolecules*, **2012**, 45, 4394-4405	5.5	34
117	Dynamics of heparan sulfate explored by neutron scattering. *Physical Chemistry Chemical Physics*, **2010**, 12, 3360-2	3.6	33
116	Spin excitations in frustrated A-site spinels investigated with inelastic neutron scattering. *Physical Review B*, **2009**, 79,	3.3	32
115	Crystalline inelastic response of high-density amorphous ice. *Physical Review B*, **2004**, 69,	3.3	31
114	Quasielastic neutron scattering of hydrated BaZr0.90A0.10O2.95 (A = Y and Sc). *Solid State Ionics*, **2009**, 180, 22-28	3.3	30
113	Absence of molecular mobility on nano-second time scales in amorphous ice phases. *Physical Chemistry Chemical Physics*, **2005**, 7, 1423-31	3.6	28
112	Amorphous polymorphis in ice investigated by inelastic neutron scattering. *Physica B: Condensed Matter*, **1997**, 241-243, 897-902	2.8	27
111	Charge disproportionation and collinear magnetic order in the frustrated triangular antiferromagnet AgNiO2. *Physical Review B*, **2008**, 77,	3.3	27
110	Diffusion of CH4 in ZIF-8 Studied by Quasi-Elastic Neutron Scattering. *Journal of Physical Chemistry C*, **2015**, 119, 16115-16120	3.8	26
109	Vibrational dynamics of the filled skutterudites M1−xFe4Sb12 (M=Ca, Sr, Ba, and Yb): Temperature response, dispersion relation, and material properties. *Physical Review B*, **2011**, 84,	3.3	26

108	Observation of subtle dynamic transitions by a combination of neutron scattering, X-ray diffraction and DSC: a case study of the monoclinic L-cysteine. *Biophysical Chemistry*, **2010**, 148, 34-41	3.5	25
107	On the heterogeneous character of water's amorphous polymorphism. *Journal of Applied Crystallography*, **2007**, 40, s517-s521	3.8	25
106	Dynamics of human acetylcholinesterase bound to non-covalent and covalent inhibitors shedding light on changes to the water network structure. *Physical Chemistry Chemical Physics*, **2016**, 18, 12992-3001	3.6	25
105	Spin dynamics of the frustrated easy-axis triangular antiferromagnet 2H-AgNiO2 explored by inelastic neutron scattering. *Physical Review B*, **2009**, 79,	3.3	22
104	Vibrational dynamics of the type-I clathrate Ba8ZnxGe46□y□?y (x=0,2,4,6,8). *Physical Review B*, **2010**, 82,	3.3	21
103	Influence of Doping on Structural and Thermoelectric Properties of AgSbSe2. *Journal of Electronic Materials*, **2010**, 39, 2053-2058	1.9	21
102	Fast methane diffusion at the interface of two clathrate structures. *Nature Communications*, **2017**, 8, 1076	17.4	20
101	Determination of conformational entropy of fully and partially folded conformations of holo- and apomyoglobin. *Journal of Physical Chemistry B*, **2015**, 119, 72-82	3.4	20
100	Inelastic neutron scattering and frequency-domain magnetic resonance studies of S=4 and S=12 Mn6 single-molecule magnets. *Physical Review B*, **2010**, 81,	3.3	20
99	Effects of impurities on the lattice dynamics of nanocrystalline silicon for thermoelectric application. *Journal of Materials Science*, **2013**, 48, 2836-2845	4.3	19
98	Effect of the electropositive elements A = Sc, La, and Ce on the microscopic dynamics of AV2Al20. *Physical Chemistry Chemical Physics*, **2014**, 16, 27119-33	3.6	19
97	Dynamics of apomyoglobin in the alpha-to-beta transition and of partially unfolded aggregated protein. *European Biophysics Journal*, **2009**, 38, 237-44	1.9	17
96	Increased molecular mobility in humid silk fibers under tensile stress. *Physical Review E*, **2011**, 83, 016104	2.4	17
95	Experimental determination of the phonon density of states in filled skutterudites: evidence for a localized mode of the filling atom. *Physical Chemistry Chemical Physics*, **2005**, 7, 1617-9	3.6	17
94	Proton jump diffusion dynamics in hydrated barium zirconates studied by high-resolution neutron backscattering spectroscopy. *Journal of Materials Chemistry A*, **2018**, 6, 7538-7546	13	16
93	Direct comparison of elastic incoherent neutron scattering experiments with molecular dynamics simulations of DMPC phase transitions. *European Physical Journal E*, **2016**, 39, 48	1.5	16
92	Vibrational dynamics of amorphous ice structures studied by high-resolution neutron spectroscopy. *Physical Review B*, **2008**, 78,	3.3	16
91	Role of the doping level in localized proton motions in acceptor-doped barium zirconate proton conductors. *Physical Chemistry Chemical Physics*, **2018**, 20, 13697-13704	3.6	15

90	Correlation of the dynamics of native human acetylcholinesterase and its inhibited huperzine A counterpart from sub-picoseconds to nanoseconds. *Journal of the Royal Society Interface*, **2014**, 11, 20140372	4.1	15
89	Application of incoherent inelastic neutron scattering in pharmaceutical analysis: relaxation dynamics in phenacetin. *Molecular Pharmaceutics*, **2012**, 9, 2434-41	5.6	15
88	Dynamical Crossover in Hot Dense Water: The Hydrogen Bond Role. *Journal of Physical Chemistry B*, **2016**, 120, 9051-9	3.4	15
87	Localized Proton Motions in Acceptor-Doped Barium Zirconates. *Journal of Physical Chemistry C*, **2017**, 121, 7088-7093	3.8	14
86	Magnetic structures and excitations in CePd2(Al,Ga)2 series: Development of the □ibron□ states. *Physical Review B*, **2017**, 95,	3.3	14
85	Magnetoelastic hybrid excitations in CeAuAl. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 6695-6700	11.5	14
84	Picosecond dynamics in haemoglobin from different species: a quasielastic neutron scattering study. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 2989-99	4	14
83	In-beam test of the Boron-10 Multi-Grid neutron detector at the IN6 time-of-flight spectrometer at the ILL. *Journal of Physics: Conference Series*, **2014**, 528, 012040	0.3	14
82	Vibrational dynamics and phonon dispersion of polycrystalline ice XII and of high-density amorphous ice. *Physical Review B*, **2008**, 77,	3.3	14
81	Muon spin rotation and neutron scattering study of the noncentrosymmetric tetragonal compound CeAuAl3. *Physical Review B*, **2015**, 91,	3.3	13
80	Vibrational Dynamics of Filled Skutterudites LaT4X12 (T = Fe, Ru, Os, X = As, Sb). *Journal of the Physical Society of Japan*, **2013**, 82, 114607	1.5	13
79	Vibrational dynamics of very high density amorphous ice studied by high-resolution x-ray spectroscopy. *Physical Review B*, **2008**, 78,	3.3	13
78	Dynamics of the Peripheral Membrane Protein P2 from Human Myelin Measured by Neutron Scattering--A Comparison between Wild-Type Protein and a Hinge Mutant. *PLoS ONE*, **2015**, 10, e0128954	3.7	13
77	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr_{2}X_{4} (X=Se, S). *Physical Review Letters*, **2018**, 120, 137201	7.4	12
76	Vibrational dynamics of the filled skutterudite Yb1□Fe4Sb12: Debye-Waller factor, generalized density of states, and elastic structure factor. *Physical Review B*, **2014**, 89,	3.3	12
75	Lattice dynamics in intermetallic Mg2Ge and Mg2Si. *Journal of Physics Condensed Matter*, **2014**, 26, 485401	2.8	12
74	Unusual non-Fermi liquid behavior in. *Physica B: Condensed Matter*, **2006**, 378-380, 640-643	2.8	12
73	Inelastic neutron scattering experiments on antimony-based filled skutterudites. *Physica B: Condensed Matter*, **2004**, 350, E403-E405	2.8	12

72	Absence of fast precursor dynamics of low-density amorphous ice around its hypothetical glass transition temperature. *Physical Chemistry Chemical Physics*, **2004**, 6, 677	3.6	12
71	Intercalation of molecular gases into C60. *Physical Review B*, **2001**, 64,	3.3	12
70	Proton Dynamics in Hydrated BaZr0.9M0.1O2.95 (M = Y and Sc) Investigated with Neutron Spin□cho. *Journal of Physical Chemistry C*, **2016**, 120, 13963-13969	3.8	12
69	On the microscopic dynamics of the 'Einstein solids' AlV2Al20 and GaV2Al20, and of YV2Al20: a benchmark system for 'rattling' excitations. *Physical Chemistry Chemical Physics*, **2015**, 17, 24837-50	3.6	11
68	Probing the dynamics of complexed local anesthetics via neutron scattering spectroscopy and DFT calculations. *International Journal of Pharmaceutics*, **2017**, 524, 397-406	6.5	10
67	Raman and Infrared spectroscopies and X-ray diffraction data on bupivacaine and ropivacaine complexed with 2-hydroxypropyl-□cyclodextrin. *Data in Brief*, **2017**, 15, 25-29	1.2	10
66	Low-energy phonon dispersion in LaFe4Sb12. *Physical Review B*, **2015**, 91,	3.3	10
65	Origin of the highly anisotropic thermal expansion of the semiconducting ZnSb and relations with its thermoelectric applications. *RSC Advances*, **2015**, 5, 87118-87131	3.7	10
64	Observation of a superfluid component within solid helium. *Physical Review Letters*, **2011**, 107, 265301	7.4	10
63	Field-induced quantum phase transition in the quasi 1D XY-like antiferromagnet Cs2CoCl4. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 920-921	2.8	10
62	Lattice Dynamics Study of Thermoelectric Oxychalcogenide BiCuChO (Ch = Se, S). *Journal of Physical Chemistry C*, **2019**, 123, 16046-16057	3.8	9
61	Simple view of the Mg2Si1□Snx phonon spectrum: Sn resonances and mean field. *Physical Review B*, **2015**, 91,	3.3	9
60	Insight into Design of Improved Oxide Ion Conductors: Dynamics and Conduction Mechanisms in the BiVO Solid Electrolyte. *Journal of the American Chemical Society*, **2019**, 141, 9989-9997	16.4	8
59	Self- and interdiffusion in dilute liquid germanium-based alloys. *Journal of Physics Condensed Matter*, **2019**, 31, 455101	1.8	8
58	Contrasting effect of La substitution on the magnetic moment direction in the Kondo semiconductors CeT2Al10(T=Ru,Os). *Physical Review B*, **2015**, 92,	3.3	8
57	Nickel self-diffusion in a liquid and undercooled NiSi alloy. *Physical Review B*, **2016**, 94,	3.3	8
56	Lattice dynamics and thermoelectric properties of nanocrystalline silicon□germanium alloys. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 515-523	1.6	8
55	Quantum Dynamics of H2 and D2 Confined in Hydrate Structures as a Function of Pressure and Temperature. *Journal of Physical Chemistry C*, **2019**, 123, 1888-1903	3.8	8

54	In Vivo Water Dynamics in Shewanella oneidensis Bacteria at High Pressure. *Scientific Reports*, **2019**, 9, 8716	4.9	7
53	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. *ChemPhysChem*, **2017**, 18, 2739-2746	3.2	7
52	Polymorphic drugs examined with neutron spectroscopy: Is making more stable forms really that simple?. *Chemical Physics*, **2013**, 427, 124-128	2.3	7
51	Crystalline electric field effects in PrNi2B2C: Inelastic neutron scattering. *Physical Review B*, **2008**, 78,	3.3	7
50	Magnetic dynamics of the spin-glass system PrAu2Si2: An inelastic neutron scattering study. *Journal of Magnetism and Magnetic Materials*, **2007**, 310, 1535-1536	2.8	7
49	Understanding the magnetism in noncentrosymmetric CeIrGe3: Muon spin relaxation and neutron scattering studies. *Physical Review B*, **2018**, 97,	3.3	7
48	Gradual pressure-induced enhancement of magnon excitations in CeCoSi. *Physical Review B*, **2020**, 101,	3.3	6
47	Characteristic energy scales in CePdAl. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 468-471	1.3	6
46	Coexistence of ferromagnetic and antiferromagnetic spin correlations in La1.2Sr1.8Mn2O7. *Physical Review B*, **2006**, 73,	3.3	6
45	The boson peak of amyloid fibrils: probing the softness of protein aggregates by inelastic neutron scattering. *Journal of Physical Chemistry B*, **2014**, 118, 2913-23	3.4	5
44	Crystalline electric field splitting in YbNi4P2 measured by inelastic neutron scattering. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 522-524	1.3	5
43	Inelastic neutron scattering study of the lattice dynamics in the clathrate compound BaGe□ *Journal of Physics Condensed Matter*, **2015**, 27, 485401	1.8	5
42	Multi-step magnetic ordering in frustrated thiospinel MnSc2S4. *Journal of Physics Condensed Matter* , **2007**, 19, 145262	1.8	5
41	Inelastic neutron scattering study of the lattice dynamics of the homologous compounds (PbSe)(BiSe) (m = 1, 2 and 3). *Physical Chemistry Chemical Physics*, **2018**, 20, 14597-14607	3.6	5
40	Atomic caging in multicomponent glass-forming metallic liquids. *Europhysics Letters*, **2015**, 110, 46001	1.6	4
39	Anisotropic low-energy vibrational modes as an effect of cage geometry in the binary barium silicon clathrate Ba24Si100. *Physical Review B*, **2020**, 101,	3.3	4
38	Disorder and magnetic excitations in CaCrxFe2□O4(x=0,0.5). *Physical Review B*, **2020**, 101,	3.3	4
37	Changes in dynamics of □chymotrypsin due to covalent inhibitors investigated by elastic incoherent neutron scattering. *Physical Chemistry Chemical Physics*, **2017**, 19, 25369-25379	3.6	4

36	Ferromagnetic fluctuations in YbNi4P2measured by inelastic neutron scattering. *Journal of Physics: Conference Series*, **2015**, 592, 012083	0.3	4
35	Evolution of quantum criticality in the system CeNi9Ge4. *Journal of Physics: Conference Series*, **2012**, 344, 012001	0.3	4
34	Generalized phonon density of states of Mo3Sb7 and Mo3Sb5.4Te1.6 from inelastic neutron scattering and lattice dynamical calculations. *Physical Review B*, **2011**, 84,	3.3	4
33	Probing the phonon density of states in the superconducting Si clathrates from inelastic neutron scattering experiments. *Journal of Physics: Conference Series*, **2007**, 92, 012121	0.3	4
32	Atomic dynamics in liquid KxSb1⊠ alloys. *Journal of Non-Crystalline Solids*, **2007**, 353, 3145-3148	3.9	4
31	Muon spin rotation and neutron scattering investigations of the B-site ordered double perovskite Sr2DyRuO6. *Physical Review B*, **2020**, 101,	3.3	4
30	Influence of Enantiomeric Inhibitors on the Dynamics of Acetylcholinesterase Measured by Elastic Incoherent Neutron Scattering. *Journal of Physical Chemistry B*, **2018**, 122, 8516-8525	3.4	4
29	A Quasielastic Neutron Scattering Investigation on the Molecular Self-Dynamics of Human Myelin Protein P2. *Journal of Physical Chemistry B*, **2019**, 123, 8178-8185	3.4	3
28	Absence of a long-range ordered magnetic ground state in PrRhSn studied through specific heat and inelastic neutron scattering. *Journal of Physics Condensed Matter*, **2018**, 30, 145601	1.8	3
27	Transient Pronounced Density Variation in Amorphous Ice Structures. *Zeitschrift Fur Physikalische Chemie*, **2009**, 223, 979-1000	3.1	3
26	Neutron scattering study of water confined in periodic mesoporous organosilicas. *Journal of Solid State Chemistry*, **2010**, 183, 1691-1696	3.3	3
25	Observation of a superfluid phase in solid helium. *JETP Letters*, **2008**, 87, 645-648	1.2	3
24	Temperature dependence of the low-energy crystal field excitation in PrOs4Sb12: effect of the energy gap. *Physica B: Condensed Matter*, **2006**, 378-380, 58-59	2.8	3
23	Lattice dynamics of Sr2TiO4. *Journal of Physics: Conference Series*, **2007**, 92, 012172	0.3	3
22	A neutron scattering perspective on the structure, softness and dynamics of the ligand shell of PbS nanocrystals in solution. *Chemical Science*, **2020**, 11, 8875-8884	9.4	3
21	Quantifying and Controlling Entanglement in the Quantum Magnet Cs_{2}CoCl_{4}. *Physical Review Letters*, **2021**, 127, 037201	7.4	3
20	Vibrational dynamics of the type-I clathrates A8Sn44?2 (A = Cs, Rb, K) from lattice-dynamics calculations, inelastic neutron scattering, and specific heat measurements. *Journal of Applied Physics*, **2020**, 127, 145104	2.5	3
19	Water Mobility in the Interfacial Liquid Layer of Ice/Clay Nanocomposites. *Angewandte Chemie - International Edition*, **2021**, 60, 7697-7702	16.4	3

18	Novel rattling of K atoms in aluminium-doped defect pyrochlore tungstate. *Journal of Physics Condensed Matter*, **2014**, 26, 305401	1.8	2
17	Static and dynamic structure factor in solid 4 He: Absence of a glassy phase. *Europhysics Letters*, **2013**, 101, 26002	1.6	2
16	Phonons in lanthanum manganite: Inelastic neutron scattering and density functional theory studies. *Physical Review B*, **2012**, 86,	3.3	2
15	Coexistence of superfluid and solid helium in aerogel. *Journal of Experimental and Theoretical Physics*, **2010**, 111, 215-219	1	2
14	Dynamics of argon in confined geometry. *European Physical Journal: Special Topics*, **2007**, 141, 117-120	2.3	2
13	Diffusion in dense supercritical methane from quasi-elastic neutron scattering measurements. *Nature Communications*, **2021**, 12, 1958	17.4	2
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11	Dynamics of a family of cyan fluorescent proteins probed by incoherent neutron scattering. *Journal of the Royal Society Interface*, **2019**, 16, 20180848	4.1	1
10	Influence of packing density and viscosity on the growth of dynamic heterogeneity while cooling metallic melts. *Applied Physics Letters*, **2016**, 109, 051903	3.4	1
9	Study of the hydration level in proton conducting oxides using neutron diffraction with polarization analysis. *Solid State Ionics*, **2018**, 324, 163-167	3.3	1
8	Antimony-Based Compounds with the Anti-Th3P4 Structure as Potential High-Temperature Thermoelectric Materials. *Journal of Electronic Materials*, **2011**, 40, 1171-1175	1.9	1
7	Surface excitations in liquid helium nanofilms. *Crystallography Reports*, **2007**, 52, 466-470	0.6	1
6	Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon. *Carbon*, **2020**, 166, 307-315	10.4	1
5	Wassermobilität in der grenzflächeninduzierten Schmelzschicht von Eis/Tonmineral-Nanokompositen. *Angewandte Chemie*, **2021**, 133, 7775-7781	3.6	0
4	Neutron diffraction study of polycrystalline 4He in a porous medium. *JETP Letters*, **2013**, 98, 233-236	1.2	
3	QENS-WINS, Autrans, May 11–16, 2014. *Neutron News*, **2014**, 25, 14-15	0.4	
2	Advanced functionalized materials. *Neutron News*, **2012**, 23, 15-19	0.4	
1	Method of analysis of multiphonon and multiple-scattering effects in inelastic neutron scattering experiments. *Applied Physics A: Materials Science and Processing*, **2002**, 74, s166-s168	2.6	