

Michael Marek Koza

List of Publications by Year in descending order

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165
papers

4,561
citations

76326
40
h-index

133252
59
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168
all docs

168
docs citations

168
times ranked

5140
citing authors

#	ARTICLE	IF	CITATIONS
1	Breakdown of phonon glass paradigm in La- and Ce-filled Fe ₄ Sb ₁₂ skutterudites. <i>Nature Materials</i> , 2008, 7, 805-810.	27.5	299
2	Influence of chemical short-range order on atomic diffusion in Al-Ni melts. <i>Applied Physics Letters</i> , 2005, 86, 011918.	3.3	108
3	Experimental Evidence Supported by Simulations of a Very High H_{m} Diffusion in Metal Organic Framework Materials. <i>Physical Review Letters</i> , 2008, 100, 245901.	7.8	99
4	Strong Renormalization of Phonon Frequencies in Mg _{1-x} Al _x B ₂ . <i>Physical Review Letters</i> , 2002, 88, 067001.	7.8	96
5	From crystal to glass-like thermal conductivity in crystalline minerals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19751-19758.	2.8	96
6	Formation of ice XII at different conditions. <i>Nature</i> , 1999, 397, 660-661.	27.8	92
7	Adsorption and Diffusion of Light Hydrocarbons in UiO-66(Zr): A Combination of Experimental and Modeling Tools. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27470-27482.	3.1	84
8	Kinetics of the high- to low-density amorphous water transition. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 321-332.	1.8	82
9	Atomic diffusion in liquid Ni, NiP, PdNiP, and PdNiCuP alloys. <i>Applied Physics Letters</i> , 2004, 85, 4881-4883.	3.3	82
10	Crystal-like High Frequency Phonons in the Amorphous Phases of Solid Water. <i>Physical Review Letters</i> , 2000, 85, 4100-4103.	7.8	74
11	Crystal-field and Kondo-scale investigations of Ce _M \ln_7 . <i>Physical Review Letters</i> , 2000, 85, 4100-4103.	3.2	74
12	Nanofibrillar Structure and Molecular Mobility in Spider Dragline Silk. <i>Macromolecules</i> , 2005, 38, 8447-8453.	4.8	73
13	Spin-glass order induced by dynamic frustration. <i>Nature Physics</i> , 2008, 4, 766-770.	16.7	73
14	Vibronic and Magnetic Excitations in the Spin-Orbital Liquid State of FeSc ₂ S ₄ . <i>Physical Review Letters</i> , 2005, 94, 237402.	7.8	72
15	Evidence for two distinct spin relaxation mechanisms in $\text{Ho}_2\text{Ti}_2\text{O}_7$. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S635-S642.	1.8	71
16	Formation and annealing of cubic ice: I. Modelling of stacking faults. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 285104.	1.8	71
17	Charge density wave quantum critical point with strong enhancement of superconductivity. <i>Nature Physics</i> , 2017, 13, 967-972.	16.7	70
18	Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2014, 140, 124501.	3.0	68

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19	Nature of Amorphous Polymorphism of Water. Physical Review Letters, 2005, 94, 125506.	7.8	66
20	Translational and Rotational Diffusion in Water in the Gigapascal Range. Physical Review Letters, 2013, 111, 185901.	7.8	66
21	Ice XII in Its Second Regime of Metastability. Physical Review Letters, 2000, 84, 4112-4115.	7.8	62
22	Fast diffusion in ZrTiCuNiBe melts. Applied Physics Letters, 2003, 83, 3894-3896.	3.3	61
23	Aerodynamic levitation and laser heating:. European Physical Journal: Special Topics, 2011, 196, 151-165.	2.6	58
24	Formation and annealing of cubic ice: II. Kinetic study. Journal of Physics Condensed Matter, 2008, 20, 285105.	1.8	53
25	Generalized density of states and anharmonicity of the low-energy phonon bands from coherent inelastic neutron scattering response in the pyrochlore osmates$\text{A}_{\frac{1}{2}}\text{B}_{\frac{1}{2}}\text{O}_3$. Physical Review B, 2008, 78, 024302.	3.2	53
26	Diffusion of Binary CO ₂ -CH ₄ 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.	3.1	51
27	Ternary clathrates Ba-Zn-Ge: phase equilibria, crystal chemistry and physical properties. Journal of Physics Condensed Matter, 2007, 19, 216223.	1.8	50
28	Neutron scattering and muon spin relaxation measurements of the noncentrosymmetric antiferromagnet CeCoGe. Physical Review B, 2013, 88, 064416.	3.2	49
29	Nanocrystalline silicon: lattice dynamics and enhanced thermoelectric properties. Physical Chemistry Chemical Physics, 2014, 16, 25701-25709.	2.8	49
30	Anharmonicity and guest-host coupling in clathrate hydrates. Physical Chemistry Chemical Physics, 2002, 4, 4809-4816.	2.8	48
31	Magnetic ordering and spin excitations in the frustrated magnet MnSc ₂ S ₄ . Physical Review B, 2006, 73, .	3.2	47
32	Clathrate formation in the Ba-Pd-Ge system: Phase equilibria, crystal structure, and physical properties. Physical Review B, 2007, 76, .	3.2	47
33	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, 8748-8759.	2.6	47
34	Dynamic Singularity in Multicomponent Glass-Forming Metallic Liquids. Physical Review Letters, 2008, 101, 037801.	7.8	45
35	Silkworm Silk under Tensile Strain Investigated by Synchrotron X-ray Diffraction and Neutron Spectroscopy. Macromolecules, 2007, 40, 1035-1042.	4.8	44
36	Phonon density of states, anharmonicity, electron-phonon coupling, and possible multigap superconductivity in the clathrate superconductors$\text{Ba}_{\frac{1}{2}}\text{Al}_{\frac{1}{2}}\text{O}_8$. Physical Review B, 2008, 77, .	3.2	44

ARTICLE

IF CITATIONS

37 Vibrational dynamics of filled skutterudites$\mathrm{mml:math}$
xmlns:mml="http://www.w3.org/1998/Math/MathML"

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55	Absence of molecular mobility on nano-second time scales in amorphous ice phases. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1423.	2.8	29
56	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> , 2010, 148, 34-41.	2.8	29
57	Magnetoelastic hybrid excitations in CeAuAl ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6695-6700.	7.1	29
58	On the heterogeneous character of water's amorphous polymorphism. <i>Journal of Applied Crystallography</i> , 2007, 40, s517-s521.	4.5	27
59	Influence of Doping on Structural and Thermoelectric Properties of AgSbSe ₂ . <i>Journal of Electronic Materials</i> , 2010, 39, 2053-2058.	2.2	27
60	Determination of Conformational Entropy of Fully and Partially Folded Conformations of Holo- and Apomyoglobin. <i>Journal of Physical Chemistry B</i> , 2015, 119, 72-82.	2.6	25
61	Fast methane diffusion at the interface of two clathrate structures. <i>Nature Communications</i> , 2017, 8, 1076.	12.8	25
62	Spin dynamics of the frustrated easy-axis triangular antiferromagnet $\text{AgNiO}_{3.2}$ by inelastic neutron scattering. <i>Physical Review B</i> , 2009, 79, .		
63	Vibrational dynamics of the type-I clathrate $\text{Ba}_{8.2}\text{Mn}_{24}$. <i>Physical Review B</i> , 2010, 82, .		
64	Localized Proton Motions in Acceptor-Doped Barium Zirconates. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7088-7093.	3.1	24
65	Effects of impurities on the lattice dynamics of nanocrystalline silicon for thermoelectric application. <i>Journal of Materials Science</i> , 2013, 48, 2836-2845.	3.7	23
66	Effect of the electropositive elements A = Sc, La, and Ce on the microscopic dynamics of $\text{AV}_2\text{Al}_{20}$. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 27119-27133.	2.8	23
67	Role of the doping level in localized proton motions in acceptor-doped barium zirconate proton conductors. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13697-13704.	2.8	23
68	Inelastic neutron scattering and frequency-domain magnetic resonance studies of $\text{S}=4$ and $\text{S}=12$ Mn ₆ single-molecule magnets. <i>Physical Review B</i> , 2010, 81, .	3.2	21
69	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> , 2014, 528, 012040.	0.4	21
70	Dynamical Crossover in Hot Dense Water: The Hydrogen Bond Role. <i>Journal of Physical Chemistry B</i> , 2016, 120, 9051-9059.	2.6	20
71	Direct comparison of elastic incoherent neutron scattering experiments with molecular dynamics simulations of DMPC phase transitions. <i>European Physical Journal E</i> , 2016, 39, 48.	1.6	20
72	Editorial. <i>European Physical Journal E</i> , 2003, 12, 3-4.	1.6	19

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73	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> , 2005, 7, 1617.	2.8	19
74	Increased molecular mobility in humid silk fibers under tensile stress. <i>Physical Review E</i> , 2011, 83, 016104.	2.1	19
75	Muon spin rotation and neutron scattering study of the noncentrosymmetric tetragonal compoundCeAuAl. <i>Physical Review B</i> , 2015, 91, .	3.2	19
76	Proton jump diffusion dynamics in hydrated barium zirconates studied by high-resolution neutron backscattering spectroscopy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7538-7546.	10.3	19
77	Vibrational dynamics of amorphous ice structures studied by high-resolution neutron spectroscopy. <i>Physical Review B</i> , 2008, 78, .	3.2	18
78	Dynamics of apomyoglobin in the I^{\pm} -to- I^2 transition and of partially unfolded aggregated protein. <i>European Biophysics Journal</i> , 2009, 38, 237-244.	2.2	18
79	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> , 2014, 11, 20140372.	3.4	18
80	Magnetic structures and excitations in CePd ₃ . Development of the vibron states. <i>Physical Review B</i> , 2017, 95, .	3.2	18
81	Vibrational dynamics and phonon dispersion of polycrystalline ice XII and of high-density amorphous ice. <i>Physical Review B</i> , 2008, 77, .	3.2	17
82	Picosecond dynamics in haemoglobin from different species: A quasielastic neutron scattering study. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 2989-2999.	2.4	17
83	Insight into Design of Improved Oxide Ion Conductors: Dynamics and Conduction Mechanisms in the $\text{Bi}_{0.913}\text{V}_{0.087}\text{O}_{1.587}$ Solid Electrolyte. <i>Journal of the American Chemical Society</i> , 2019, 141, 9989-9997.	13.7	17
84	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> , 2015, 10, e0128954.	2.5	17
85	Vibrational Dynamics of Filled Skutterudites $\text{La}_{4}\text{T}_{12}$ ($\text{T} = \text{Ti}, \text{Nb}$). <i>Journal of Physics: Condensed Matter</i> , 2016, 28, 075001.	3.1	17
86	Proton Dynamics in Hydrated $\text{BaZr}_{0.9}\text{M}_{0.1}\text{O}_{2.95}$ ($\text{M} = \text{Mn}$). <i>Journal of Physics: Condensed Matter</i> , 2016, 28, 075002.	3.1	16
87	Lattice Dynamics Study of Thermoelectric Oxychalcogenide BiCuChO ($\text{Ch} = \text{Se}, \text{S}$). <i>Journal of Physical Chemistry C</i> , 2019, 123, 16046-16057.	3.1	16
88	Inelastic neutron scattering experiments on antimony-based filled skutterudites. <i>Physica B: Condensed Matter</i> , 2004, 350, E403-E405.	2.7	15
89	Application of Incoherent Inelastic Neutron Scattering in Pharmaceutical Analysis: Relaxation Dynamics in Phenacetin. <i>Molecular Pharmaceutics</i> , 2012, 9, 2434-2441.	4.6	15
90	Lattice dynamics in intermetallic Mg_2Ge and Mg_2Si . <i>Journal of Physics: Condensed Matter</i> , 2014, 26, 485401.	1.8	15

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91	Spin Ice States with a Fast Monopole Hopping Rate in $\text{CdEr}_2\text{Mn}_2\text{O}_7$	1.02	100

Spin Ice States with a Fast Monopole Hopping Rate in $\text{CdEr}_2\text{Mn}_2\text{O}_7$

$\text{CdEr}_2\text{Mn}_2\text{O}_7$

91

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109	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 Anisotropic Low-energy Vibrational modes as an effect of cage geometry in the binary barium silicon clathrate $B_{24}S_{100}$. <i>Journal of Clays and Clay Minerals</i> , 2017, 15, 273-276.	2.1	11
110	Phy Water Mobility in the Interfacial Liquid Layer of Ice/Clay Nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7697-7702.	3.2	11
112	Diffusion in dense supercritical methane from quasi-elastic neutron scattering measurements. <i>Nature Communications</i> , 2021, 12, 1958.	12.8	11
113	Crystalline electric field effects in \PrNi_2S_2 . Inelastic neutron scattering. <i>Physical Review B</i> , 2008, 78, .	2.8	10
114	Simple view of the $Mg_{21}Sn_{10}$ spectrum: Sn resonances and mean field. <i>Physical Review B</i> , 2015, 91, .	3.0	10
115	Origin of the highly anisotropic thermal expansion of the semiconducting ZnSb and relations with its thermoelectric applications. <i>RSC Advances</i> , 2015, 5, 87118-87131.	3.6	10
116	Nickel self-diffusion in a liquid and undercooled NiSi alloy. <i>Physical Review B</i> , 2016, 94, .	3.2	10
117	Contrasting effect of La substitution on the magnetic moment direction in the Kondo semiconductors CeT_2Al_{10} ($T=$ Ru,Os). <i>Physical Review B</i> , 2015, 92, .	3.2	9
118	Magnetic dynamics of the spin-glass system $PrAu_2Si_2$: An inelastic neutron scattering study. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1535-1536.	2.3	8
119	Lattice dynamics and thermoelectric properties of nanocrystalline silicon-germanium alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 515-523.	1.8	8
120	Polymorphic drugs examined with neutron spectroscopy: Is making more stable forms really that simple?. <i>Chemical Physics</i> , 2013, 427, 124-128.	1.9	7
121	Temperature-dependent dynamic structure factors for liquid water inferred from inelastic neutron scattering measurements. <i>Journal of Chemical Physics</i> , 2021, 155, 024502.	3.0	7
122	Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon. <i>Carbon</i> , 2020, 166, 307-315.	10.3	7
123	Coexistence of ferromagnetic and antiferromagnetic spin correlations in $La_{1.2}Sr_{1.8}Mn_2O_7$. <i>Physical Review B</i> , 2006, 73, .	3.2	6
124	Multi-step magnetic ordering in frustrated thiospinel $MnSc_2S_4$. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145262.	1.8	6
125	Characteristic energy scales in CePdAl. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 468-471.	1.5	6
126	The Boson Peak of Amyloid Fibrils: Probing the Softness of Protein Aggregates by Inelastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2913-2923.	2.6	6

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127	Inelastic neutron scattering study of the lattice dynamics in the clathrate compound BaGe ₅ . Journal of Physics Condensed Matter, 2015, 27, 485401.	1.8	6
128	Inelastic neutron scattering study of the lattice dynamics of the homologous compounds (PbSe) ₅ (Bi ₂ Se ₃) _{3m} (<i>i</i> m <i>j</i> = 1, 2 and 3). Physical Chemistry Chemical Physics, 2018, 20, 14597-14607.	2.8	6
129	Probing the phonon density of states in the superconducting Si clathrates from inelastic neutron scattering experiments. Journal of Physics: Conference Series, 2007, 92, 012121.	0.4	5
130	Lattice dynamics of Sr ₂ TiO ₄ . Journal of Physics: Conference Series, 2007, 92, 012172.	0.4	5
131	Atomic dynamics in liquid K _x Sb _{1-x} alloys. Journal of Non-Crystalline Solids, 2007, 353, 3145-3148.	3.1	5
132	Antimony-Based Compounds with the Anti-Th ₃ P ₄ Structure as Potential High-Temperature Thermoelectric Materials. Journal of Electronic Materials, 2011, 40, 1171-1175.	2.2	5
133	Evolution of quantum criticality in the system CeNi ₉ Ge ₄ . Journal of Physics: Conference Series, 2012, 344, 012001.	0.4	5
134	Crystalline electric field splitting in YbNi ₄ P ₂ measured by inelastic neutron scattering. Physica Status Solidi (B): Basic Research, 2013, 250, 522-524.	1.5	5
135	Ferromagnetic fluctuations in YbNi ₄ P ₂ measured by inelastic neutron scattering. Journal of Physics: Conference Series, 2015, 592, 012083.	0.4	5
136	Changes in dynamics of $\tilde{\chi}$ -chymotrypsin due to covalent inhibitors investigated by elastic incoherent neutron scattering. Physical Chemistry Chemical Physics, 2017, 19, 25369-25379.	2.8	5
137	Vibrational dynamics of the type-I clathrates A ₈ Sn ₄₄ - β -2 (A = Cs, Rb, K) from lattice-dynamics calculations, inelastic neutron scattering, and specific heat measurements. Journal of Applied Physics, 2020, 127, 145104.	3.2	5
138	Transient Pronounced Density Variation in Amorphous Ice Structures. Zeitschrift Fur Physikalische Chemie, 2009, 223, 979-1000.	2.8	4
139	Generalized phonon density of states of Mo ₃ . $\text{Generalized phonon density of states of Mo}_3 \text{ is calculated using the formula: } \text{Generalized phonon density of states of Mo}_3 = \frac{1}{V} \int_{-\infty}^{\infty} \rho(\omega) d\omega$	2.8	4
140	and Mo ₇ . $\text{and Mo}_7 \text{ is calculated using the formula: } \text{and Mo}_7 = \frac{1}{V} \int_{-\infty}^{\infty} \rho(\omega) d\omega$	3.2	4
141	Atomic caging in multicomponent glass-forming metallic liquids. Europhysics Letters, 2015, 110, 46001.	2.0	4
142	Absence of a long-range ordered magnetic ground state in Pr ₃ Rh ₄ Sn ₁₃ studied through specific heat and inelastic neutron scattering. Journal of Physics Condensed Matter, 2018, 30, 145601.	1.8	4
143	Influence of Enantiomeric Inhibitors on the Dynamics of Acetylcholinesterase Measured by Elastic Incoherent Neutron Scattering. Journal of Physical Chemistry B, 2018, 122, 8516-8525.	2.6	4
144	A Quasielastic Neutron Scattering Investigation on the Molecular Self-Dynamics of Human Myelin Protein P2. Journal of Physical Chemistry B, 2019, 123, 8178-8185.	2.6	4

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145	Dynamics of a family of cyan fluorescent proteins probed by incoherent neutron scattering. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180848.	3.4	4
146	Temperature dependence of the low-energy crystal field excitation in PrOs ₄ Sb ₁₂ : effect of the energy gap. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 58-59.	2.7	3
147	Observation of a superfluid phase in solid helium. <i>JETP Letters</i> , 2008, 87, 645-648.	1.4	3
148	Neutron scattering study of water confined in periodic mesoporous organosilicas. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1691-1696.	2.9	3
149	Influence of packing density and viscosity on the growth of dynamic heterogeneity while cooling metallic melts. <i>Applied Physics Letters</i> , 2016, 109, 051903.	3.3	3
150	A neutron scattering perspective on the structure, softness and dynamics of the ligand shell of PbS nanocrystals in solution. <i>Chemical Science</i> , 2020, 11, 8875-8884.	7.4	3
151	Dynamics of argon in confined geometry. <i>European Physical Journal: Special Topics</i> , 2007, 141, 117-120.	2.6	2
152	Coexistence of superfluid and solid helium in aerogel. <i>Journal of Experimental and Theoretical Physics</i> , 2010, 111, 215-219.	0.9	2
153	Phonons in lanthanum manganite: Inelastic neutron scattering and density functional theory studies. <i>Physical Review B</i> , 2012, 86, .	3.2	2
154	Static and dynamic structure factor in solid 4 He: Absence of a glassy phase. <i>Europhysics Letters</i> , 2013, 101, 26002.	2.0	2
155	Novel rattling of K atoms in aluminium-doped defect pyrochlore tungstate. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 305401.	1.8	2
156	Study of the hydration level in proton conducting oxides using neutron diffraction with polarization analysis. <i>Solid State Ionics</i> , 2018, 324, 163-167.	2.7	2
157	Strong renormalization of Ba vibrations in thermoelectric type-IX clathrate $\text{Ba}_{32}(\text{Al}_{13}\text{Ta}_6\text{O}_{41})_2$. <i>Physical Review B</i> , 2022, 105, .	1.8	2
158	Dynamics of La and Ce filled xFe ₄ Sb ₁₂ skutterudite structures. , 2006, , .	1	
159	Surface excitations in liquid helium nanofilms. <i>Crystallography Reports</i> , 2007, 52, 466-470.	0.6	1
160	Neutron Scattering on Frustrated Magnets. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	1
161	Wassermobilität in der grenzflächeninduzierten Schmelzsicht von Eis/Tonmineral-Nanokompositen. <i>Angewandte Chemie</i> , 2021, 133, 7775-7781.	2.0	1
162	Method of analysis of multiphonon and multiple-scattering effects in inelastic neutron scattering experiments. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s166-s168.	2.3	0

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163	Advanced functionalized materials. Neutron News, 2012, 23, 15-19.	0.2	0
164	Neutron diffraction study of polycrystalline ${}^4\text{He}$ in a porous medium. JETP Letters, 2013, 98, 233-236.	1.4	0
165	QENS-WINS, Autrans, May 11–16, 2014. Neutron News, 2014, 25, 14-15.	0.2	0