Michael Vogel

List of Publications by Citations

157 papers	4,008 citations	35 h-index	55 g-index
169 ext. papers	4,375 ext. citations	4.2 avg, IF	5.93 L-index

#	Paper	IF	Citations
157	Confined Water as Model of Supercooled Water. *Chemical Reviews*, **2016**, 116, 7608-25	68.1	196
156	Solid-state Li NMR with applications to the translational dynamics in ion conductors. *Progress in Nuclear Magnetic Resonance Spectroscopy*, **2007**, 50, 87-174	10.4	194
155	Slow β-process in simple organic glass formers studied by one- and two-dimensional 2H nuclear magnetic resonance. I. *Journal of Chemical Physics*, **2001**, 114, 5802-5815	3.9	136
154	Particle dynamics and the development of string-like motion in a simulated monoatomic supercooled liquid. *Journal of Chemical Physics*, **2004**, 120, 4415-27	3.9	122
153	Origins of apparent fragile-to-strong transitions of protein hydration waters. *Physical Review Letters*, **2008**, 101, 225701	7.4	105
152	Chapter 7 HITRAP: A Facility at GSI for Highly Charged Ions. *Advances in Quantum Chemistry*, **2008**, 53, 83-98	1.4	100
151	Spatially heterogeneous dynamics and dynamic facilitation in a model of viscous silica. *Physical Review Letters*, **2004**, 92, 255901	7.4	100
150	Particle rearrangements during transitions between local minima of the potential energy landscape of a binary Lennard-Jones liquid. *Journal of Chemical Physics*, **2004**, 120, 4404-14	3.9	90
149	On the Nature of Slow β-Process in Simple Glass Formers: A2H NMR Study. *Journal of Physical Chemistry B*, **2000**, 104, 4285-4287	3.4	90
148	Temperature dependence of spatially heterogeneous dynamics in a model of viscous silica. *Physical Review E*, **2004**, 70, 061504	2.4	69
147	A 2H NMR and dielelectric spectroscopy study of the slow β-process in organic glass formers. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 326-335	3.9	68
146	Slow β-process in simple organic glass formers studied by one and two-dimensional 2H nuclear magnetic resonance. II. Discussion of motional models. *Journal of Chemical Physics*, **2001**, 115, 10883-10891	3.9	66
145	Molecular Motion in the Two Amorphous Phases of Triphenyl Phosphite. *Journal of Physical Chemistry B*, **1999**, 103, 1727-1737	3.4	64
144	Secondary Relaxation Processes in Molecular Glasses Studied by Nuclear Magnetic Resonance Spectroscopy. *Annual Reports on NMR Spectroscopy*, **2005**, 56, 231-299	1.7	62
143	NMR studies on simple liquids in confinement. *European Physical Journal: Special Topics*, **2010**, 189, 47-64	2.3	61
142	Dynamic Crossovers and Stepwise Solidification of Confined Water: A (2)H NMR Study. *Journal of Physical Chemistry Letters*, **2014**, 5, 174-8	6.4	58
141	Characterization of the complex ion dynamics in lithium silicate glasses via computer simulations. *Physical Chemistry Chemical Physics*, **2002**, 4, 3185-3192	3.6	57

140	Experimental access to higher-order Zeeman effects by precision spectroscopy of highly charged ions in a Penning trap. *Physical Review A*, **2013**, 87,	2.6	56
139	Silver dynamics in silver iodide/silver phosphate glasses studied by multi-dimensional 109Ag NMR. *Physical Chemistry Chemical Physics*, **2002**, 4, 3237-3245	3.6	54
138	Li6 and Li7 NMR line-shape and stimulated-echo studies of lithium ionic hopping in LiPO3 glass. *Physical Review B*, **2008**, 77,	3.3	52
137	Effects of various types of molecular dynamics on 1D and 2D (2)H NMR studied by random walk simulations. *Journal of Magnetic Resonance*, **2000**, 147, 43-58	3	52
136	NMR studies on the temperature-dependent dynamics of confined water. *Physical Chemistry Chemical Physics*, **2014**, 16, 19229-40	3.6	50
135	Lithium ionic jump motion in the fast solid ion conductor Li(5)La(3)Nb(2)O(12). *Solid State Nuclear Magnetic Resonance*, **2008**, 34, 37-43	3.1	49
134	Molecular Dynamics in Binary Organic Glass Formers. *Journal of Physical Chemistry B*, **1999**, 103, 4032-4044	3.4	48
133	(2)H NMR study of the water dynamics in hydrated myoglobin. *Journal of Physical Chemistry B*, **2010**, 114, 10209-16	3.4	42
132	Identification of lithium sites in a model of LiPO3 glass: Effects of the local structure and energy landscape on ionic jump dynamics. *Physical Review B*, **2004**, 70,	3.3	42
131	Origin of nonexponential relaxation in a crystalline ionic conductor: A multidimensional 109Ag NMR study. *Physical Review B*, **2004**, 69,	3.3	40
130	Dynamics of interfacial water. *Journal of Non-Crystalline Solids*, **2015**, 407, 449-458	3.9	39
129	Structure and dynamics of supercooled water in neutral confinements. *Journal of Chemical Physics*, **2013**, 138, 134503	3.9	39
128	Laser-microwave double-resonance technique for g-factor measurements in highly charged ions. *Physical Review A*, **2008**, 78,	2.6	39
127	Signature of a type-A glass transition and intrinsic confinement effects in a binary glass-forming system. *Physical Review Letters*, **2012**, 109, 035702	7.4	37
126	Type A versus Type B Glass Formers: NMR Relaxation in Bulk and Confining Geometry. *Journal of Physical Chemistry B*, **2004**, 108, 16601-16605	3.4	37
125	Exchange Processes in Disordered Systems Studied by Solid-State 2D NMR. *Journal of Physical Chemistry A*, **1998**, 102, 2102-2108	2.8	37
124	Laser cooling of externally produced Mg ions in a Penning trap for sympathetic cooling of highly charged ions. *Physical Review A*, **2013**, 87,	2.6	36
123	A molecular dynamics simulations study on the relations between dynamical heterogeneity, structural relaxation, and self-diffusion in viscous liquids. *Journal of Chemical Physics*, **2015**, 143, 164502	3.9	35

122	Temperature-dependent mechanisms for the dynamics of protein-hydration waters: a molecular dynamics simulation study. *Journal of Physical Chemistry B*, **2009**, 113, 9386-92	3.4	35
121	Spatially heterogeneous dynamics and the Adam-Gibbs relation in the Dzugutov liquid. *Journal of Physical Chemistry B*, **2005**, 109, 15068-79	3.4	35
120	NMR and dielectric studies of hydrated collagen and elastin: Evidence for a delocalized secondary relaxation. *Journal of Non-Crystalline Solids*, **2011**, 357, 655-663	3.9	34
119	Conformational and Structural Relaxations of Poly(ethylene oxide) and Poly(propylene oxide) Melts: Molecular Dynamics Study of Spatial Heterogeneity, Cooperativity, and Correlated ForwardBackward Motion. *Macromolecules*, **2008**, 41, 2949-2958	5.5	31
118	New Nuclear Magnetic Moment of ^{209}Bi: Resolving the Bismuth Hyperfine Puzzle. *Physical Review Letters*, **2018**, 120, 093001	7.4	30
117	Reorientation of Deeply Cooled Water in Mesoporous Silica: NMR Studies of the Pore-Size Dependence. *Journal of Physical Chemistry B*, **2019**, 123, 2123-2134	3.4	30
116	Large angle jumps of small molecules in amorphous matrices analyzed by 2D exchange NMR. *Journal of Magnetic Resonance*, **2002**, 159, 126-136	3	29
115	NMR Multi-Time Correlation Functions of Ion Dynamics in Solids. *Zeitschrift Fur Physikalische Chemie* , **2010**, 224, 1535-1553	3.1	28
114	Complex lithium ion dynamics in simulated LiPO3 glass studied by means of multitime correlation functions. *Physical Review B*, **2003**, 68,	3.3	28
113	2H NMR Studies on the Dynamics of Pure and Mixed Hydrogen-Bonded Liquids in Confinement. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1059-1087	3.1	27
112	Effect of the hydroaffinity and topology of pore walls on the structure and dynamics of confined water. *Journal of Chemical Physics*, **2015**, 142, 034703	3.9	27
111	Silver ion dynamics in the Ag5Te2Cl-polymorphs revealed by solid state NMR lineshape and two- and three-time correlation spectroscopies. *Physical Chemistry Chemical Physics*, **2006**, 8, 369-78	3.6	27
110	Silver dynamics in crystalline and glassy silver ion conductors studied by one- and two-dimensional 109Ag NMR. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 971-980	3.9	27
109	Static and dynamic length scales in supercooled liquids: insights from molecular dynamics simulations of water and tri-propylene oxide. *Journal of Chemical Physics*, **2014**, 140, 144501	3.9	26
108	H NMR at Larmor frequencies down to 3Hz by means of Field-Cycling techniques. *Journal of Magnetic Resonance*, **2017**, 277, 79-85	3	24
107	Slow Water Dynamics near a Glass Transition or a Solid Interface: A Common Rationale. *Journal of Physical Chemistry Letters*, **2015**, 6, 4385-9	6.4	24
106	Molecular Dynamics Simulations of Water, Silica, and Aqueous Mixtures in Bulk and Confinement. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1187-1225	3.1	24
105	Effects of Silica Surfaces on the Structure and Dynamics of Room-Temperature Ionic Liquids: A Molecular Dynamics Simulation Study. *Journal of Physical Chemistry C*, **2018**, 122, 624-634	3.8	24

104	Effects of Partial Crystallization on the Dynamics of Water in Mesoporous Silica. *Journal of Physical Chemistry C*, **2018**, 122, 15427-15434	3.8	24
103	Combining 7Li NMR field-cycling relaxometry and stimulated-echo experiments: a powerful approach to lithium ion dynamics in solid-state electrolytes. *Solid State Nuclear Magnetic Resonance* , **2013**, 51-52, 25-30	3.1	23
102	Dynamics of water-alcohol mixtures: insights from nuclear magnetic resonance, broadband dielectric spectroscopy, and triplet solvation dynamics. *Journal of Chemical Physics*, **2014**, 140, 114503	3.9	23
101	On the lifetime of dynamical heterogeneities associated with the ionic jump motion in glasses: Results from molecular dynamics simulations and NMR experiments. *Journal of Non-Crystalline Solids*, **2006**, 352, 5156-5163	3.9	23
100	Two-dimensional 109Ag NMR and random-walk simulation studies of silver dynamics in glassy silver ion conductors. *Solid State Nuclear Magnetic Resonance*, **2002**, 22, 344-62	3.1	23
99	Power-law and logarithmic relaxations of hydrated proteins: a molecular dynamics simulations study. *Journal of Chemical Physics*, **2012**, 137, 205105	3.9	22
98	Chain-Length Dependence of the Segmental Relaxation in Polymer Melts: Molecular Dynamics Simulation Studies on Poly(propylene oxide). *Macromolecules*, **2010**, 43, 8985-8992	5.5	22
97	Ion and polymer dynamics in polymer electrolytes PPO-LiClO4. II. 2H and 7Li NMR stimulated-echo experiments. *Journal of Chemical Physics*, **2006**, 125, 164910	3.9	22
96	Effects of salt and nanoparticles on the segmental motion of poly(ethylene oxide) in its crystalline and amorphous phases: 2H and 7Li NMR studies. *Journal of Physical Chemistry B*, **2008**, 112, 11217-26	3.4	21
95	Re-entrant phase transition of the crystalline ion conductor Ag7P3S11. *Solid State Sciences*, **2004**, 6, 1077-1088	3.4	21
94	Secondary water relaxation in a water/dimethyl sulfoxide mixture revealed by deuteron nuclear magnetic resonance and dielectric spectroscopy. *Journal of Physical Chemistry B*, **2011**, 115, 11588-96	3.4	20
93	Mixed-cation LixAg1−xPO3 glasses studied by Li6, Li7, and Ag109 stimulated-echo NMR spectroscopy. *Physical Review B*, **2011**, 84,	3.3	20
92	A molecular dynamics simulations study on ethylene glycol-water mixtures in mesoporous silica. *Journal of Chemical Physics*, **2016**, 145, 104703	3.9	20
91	Crystallization and Dynamics of Water Confined in Model Mesoporous Silica Particles: Two Ice Nuclei and Two Fractions of Water. *Langmuir*, **2019**, 35, 5890-5901	4	19
90	Lithium ion dynamics in Li2S+GeS2+GeO2 glasses studied using (7)Li NMR field-cycling relaxometry and line-shape analysis. *Solid State Nuclear Magnetic Resonance*, **2015**, 70, 53-62	3.1	19
89	Common behaviors associated with the glass transitions of water-like models. *Journal of Chemical Physics*, **2017**, 147, 034505	3.9	19
88	Relation of short-range and long-range lithium ion dynamics in glass-ceramics: Insights from Li7 NMR field-cycling and field-gradient studies. *Physical Review B*, **2017**, 96,	3.3	19
87	Are rare, long waiting times between rearrangement events responsible for the slowdown of the dynamics at the glass transition?. *Journal of Chemical Physics*, **2013**, 138, 12A527	3.9	19

86	Ion and polymer dynamics in polymer electrolytes PPO-LiClO4. I. Insights from NMR line-shape analysis. *Journal of Chemical Physics*, **2006**, 125, 054905	3.9	19
85	Secondary Relaxation Processes in Polybutadiene Studied by2H Nuclear Magnetic Resonance and High-Precision Dielectric Spectroscopy. *Macromolecules*, **2005**, 38, 5625-5633	5.5	19
84	Comparing the dynamical heterogeneities in binary glass formers and in a glass former embedded in a zeolite 2H NMR study. *Journal of Non-Crystalline Solids*, **2002**, 307-310, 565-572	3.9	19
83	Ab initio H2O in realistic hydrophilic confinement. *ChemPhysChem*, **2014**, 15, 3955-62	3.2	18
82	Examination of dynamic facilitation in molecular dynamics simulations of glass-forming liquids. *Journal of Physical Chemistry B*, **2005**, 109, 6748-53	3.4	18
81	Small Molecules, Non-Covalent Interactions, and Confinement. *Molecules*, **2020**, 25,	4.8	18
80	Interpretation of 1H and 2H spin-lattice relaxation dispersions: insights from molecular dynamics simulations of polymer melts. *Solid State Nuclear Magnetic Resonance*, **2013**, 54, 32-40	3.1	17
79	Rotational and Conformational Dynamics of a Model Polymer Melt at Solid Interfaces. *Macromolecules*, **2009**, 42, 9498-9505	5.5	17
78	On the relation between reorientation and diffusion in glass-forming ionic liquids with micro-heterogeneous structures. *Journal of Chemical Physics*, **2019**, 151, 194503	3.9	17
77	Annealing-induced vacancy formation enables extraordinarily high Li+ ion conductivity in the amorphous electrolyte 0.33 LiI + 0.67 Li3PS4. *Solid State Ionics*, **2019**, 341, 115040	3.3	16
76	Dynamical and structural properties of monohydroxy alcohols exhibiting a Debye process. *Journal of Chemical Physics*, **2014**, 140, 144507	3.9	16
75	2H NMR studies of glycerol dynamics in protein matrices. *Journal of Chemical Physics*, **2012**, 136, 124511	3.9	16
74	Backward correlations and dynamic heterogeneities: A computer study of ion dynamics. *Physical Review B*, **2002**, 66,	3.3	16
73	Synthesis and NMR investigation of 2D nanocrystals of the LaF3 doped by SrF2. *Journal of Fluorine Chemistry*, **2016**, 188, 185-190	2.1	16
72	Static and pulsed field gradient nuclear magnetic resonance studies of water diffusion in protein matrices. *Journal of Chemical Physics*, **2011**, 135, 164503	3.9	15
71	Nonexponential polymer segmental motion in the presence and absence of ions: 2H NMR multitime correlation functions for polymer electrolytes poly(propylene glycol)-LiClO4. *Journal of Chemical Physics*, **2007**, 126, 204902	3.9	15
70	Fragile-to-strong transition in liquid silica. *AIP Advances*, **2016**, 6, 035131	1.5	15
69	A Combined Solid-State NMR, Dielectric Spectroscopy and Calorimetric Study of Water in Lowly Hydrated MCM-41 Samples. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1003-1015	3.1	15

68	Creating realistic silica nanopores for molecular dynamics simulations. *Molecular Simulation*, **2017**, 43, 13-18	2	14
67	Static field gradient NMR studies of water diffusion in mesoporous silica. *Physical Chemistry Chemical Physics*, **2020**, 22, 13989-13998	3.6	13
66	Mobility of water molecules in sodium- and copper-exchanged mordenites: Thermal analysis and 1H NMR study. *Microporous and Mesoporous Materials*, **2018**, 265, 132-142	5.3	13
65	Properties of Hydrogen-Bonded Liquids at Interfaces. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 937-972	3.1	13
64	Chain-Length Dependence of Polymer Dynamics: A Comparison of Results from Molecular Dynamics Simulations and Field-Cycling 1H NMR. *Macromolecules*, **2013**, 46, 7805-7811	5.5	13
63	Formation of Transient Clusters on Nanoscopic Length Scales in a Simulated One-Component Supercooled Liquid. *Molecular Simulation*, **2004**, 30, 281-287	2	13
62	NMR diffusion studies of proton-exchange membranes in wide temperature range. *Journal of Membrane Science*, **2020**, 596, 117691	9.6	13
61	Vanishing amplitude of backbone dynamics causes a true protein dynamical transition: 2H NMR studies on perdeuterated C-phycocyanin. *Physical Review E*, **2014**, 89, 032710	2.4	12
60	Role of Dynamic Heterogeneities in Ionic Liquids: Insights from All-Atom and Coarse-Grained Molecular Dynamics Simulation Studies. *ChemPhysChem*, **2017**, 18, 2233-2242	3.2	12
59	Slow molecular dynamics in binary organic glass formers. *Journal of Molecular Liquids*, **2000**, 86, 103-108	6	12
58	Dynamics of DiPGME–Water Mixtures in Mesoporous Silica. *Journal of Physical Chemistry C*, **2017**, 121, 6796-6806	3.8	11
57	NMR studies of Li mobility in NASICON-type glass-ceramic ionic conductors with optimized microstructure. *Journal of Materials Chemistry A*, **2019**, 7, 13968-13977	13	11
56	On the relevance of electrostatic interactions for the structural relaxation of ionic liquids: A molecular dynamics simulation study. *Journal of Chemical Physics*, **2019**, 150, 124501	3.9	11
55	2H NMR Studies on Water Dynamics in Functionalized Mesoporous Silica. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1041-1058	3.1	11
54	7Li NMR studies of lithium ion dynamics in polymer-derived silicon oxycarbide ceramics. *Solid State Ionics*, **2016**, 287, 28-35	3.3	11
53	Deuteron and carbon magnetic resonance studies of supercooled liquid and glassy salol. *Journal of Chemical Physics*, **2000**, 112, 5884-5892	3.9	11
52	Chapter 7:NMR Studies of Ionic Dynamics in Solids. *New Developments in NMR*, **2018**, 193-230	0.9	11
51	Effects of confinement on supercooled tetrahedral liquids. *Journal of Chemical Physics*, **2019**, 150, 214704	3.9	9

50	NMR studies on the coupling of ion and water dynamics on various time and length scales in glass-forming LiCl aqueous solutions. *Journal of Chemical Physics*, **2018**, 149, 104501	3.9	9
49	Structure and dynamics of a silica melt in neutral confinement. *Journal of Chemical Physics*, **2017**, 146, 134502	3.9	8
48	On the microscopic origins of relaxation processes in aqueous peptide solutions undergoing a glass transition. *Journal of Chemical Physics*, **2020**, 152, 234503	3.9	8
47	Effects of the bond polarity on the structural and dynamical properties of silica-like liquids. *Journal of Chemical Physics*, **2018**, 148, 104506	3.9	8
46	From Local to Diffusive Dynamics in Polymer Electrolytes: NMR Studies on Coupling of Polymer and Ion Dynamics across Length and Time Scales. *Macromolecules*, **2019**, 52, 9128-9139	5.5	8
45	Quasielastic neutron scattering studies on couplings of protein and water dynamics in hydrated elastin. *Journal of Chemical Physics*, **2020**, 152, 245101	3.9	7
44	Glycerol in micellar confinement with tunable rigidity. *Journal of Chemical Physics*, **2016**, 145, 234511	3.9	7
43	Effects of solvent concentration and composition on protein dynamics: 13C MAS NMR studies of elastin in glycerol-water mixtures. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2015**, 1854, 995-1000	4	6
42	Molecular dynamics simulations vs field-cycling NMR relaxometry: Structural relaxation mechanisms in the glass-former glycerol revisited. *Journal of Chemical Physics*, **2021**, 154, 124503	3.9	6
41	Relation between concentration fluctuations and dynamical heterogeneities in binary glass-forming liquids: A molecular dynamics simulation study. *Journal of Chemical Physics*, **2019**, 150, 064502	3.9	6
40	Elastin-like Peptide in Confinement: FT-IR and NMR T1 Relaxation Data. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1239-1261	3.1	5
39	One dimensional magnetic resonance microscopy with micrometer resolution in static field gradients. *Journal of Magnetic Resonance*, **2019**, 307, 106566	3	5
38	Magnetic moment of Pb207 and the hyperfine splitting of Pb81+207. *Physical Review Research*, **2020**, 2,	3.9	5
37	Nuclear Magnetic Resonance and Broadband Dielectric Spectroscopy Studies on the Dynamics of Ethylene Glycol in Mesoporous Silica. *Journal of Physical Chemistry C*, **2020**, 124, 20998-21012	3.8	5
36	On the molecular mechanisms of □ and □ relaxations in ionic liquids. *Journal of Chemical Physics*, **2020**, 153, 104507	3.9	5
35	Influence of Morphology of LaF3 Nano-crystals on Fluorine Dynamics Studied by NMR Diffusometry. *Applied Magnetic Resonance*, **2019**, 50, 579-588	0.8	5
34	Relations between thermodynamics, structures, and dynamics for modified water models in their supercooled regimes. *Journal of Chemical Physics*, **2021**, 154, 054502	3.9	5
33	On the coupling of protein and water dynamics in confinement: Spatially resolved molecular dynamics simulation studies. *Journal of Chemical Physics*, **2019**, 150, 245101	3.9	4

32	Dynamics of a Polyphosphazene Melt Studied by Solid-State 2H NMR. *Macromolecules*, **2009**, 42, 531-536	5.5	4
31	Origin of Apparent Slow Solvent Dynamics in Concentrated Polymer Solutions. *Macromolecules*,	5.5	4
30	Nuclear Spin Relaxation in Viscous Liquids: Relaxation Stretching of Single-Particle Probes. *Journal of Physical Chemistry B*, **2021**,	3.4	4
29	The Dynamics of Hydrated Proteins Are the Same as Those of Highly Asymmetric Mixtures of Two Glass-Formers. *ACS Omega*, **2021**, 6, 340-347	3.9	4
28	Confinement Effects on Glass-Forming Aqueous Dimethyl Sulfoxide Solutions. *Molecules*, **2020**, 25,	4.8	4
27	Breakdown of the Stokes-Einstein Equation for Solutions of Water in Oil Reverse Micelles. *Journal of Physical Chemistry B*, **2020**, 124, 9115-9125	3.4	4
26	Self-diffusion micromechanism in Nafion studied by H NMR relaxation dispersion. *Journal of Chemical Physics*, **2021**, 154, 034904	3.9	4
25	Structural and Dynamical Properties of Liquids in Confinements: A Review of Molecular Dynamics Simulation Studies.. *Langmuir*, **2022**,	4	4
24	The hyperfine puzzle of strong-field bound-state QED. *Hyperfine Interactions*, **2019**, 240, 1	0.8	3
23	7Li NMR spectra and spin-lattice relaxation in lithium heptagermanate single crystal. *Ferroelectrics*, **2020**, 558, 46-58	0.6	3
22	Effects of partial crystallization on the glassy slowdown of aqueous ethylene glycol solutions.. *Journal of Chemical Physics*, **2021**, 155, 224501	3.9	3
21	NMR studies on the influence of silica confinements on local and diffusive dynamics in LiCl aqueous solutions approaching their glass transitions. *Journal of Chemical Physics*, **2020**, 153, 244501	3.9	3
20	Isotope Effect on Diffusion in Nafion Studied by NMR Diffusometry. *Applied Magnetic Resonance*, **2020**, 51, 145-153	0.8	3
19	Preparation and Study of Sulfonated Co-Polynaphthoyleneimide Proton-Exchange Membrane for a H2/Air Fuel Cell. *Materials*, **2020**, 13,	3.5	3
18	Exploring the potential of PCA-based quantitation of NMR signals in T relaxometry. *Journal of Magnetic Resonance*, **2021**, 326, 106965	3	3
17	Morphological and dynamical evolution of lanthanum fluoride 2D nanocrystals at thermal treatment. *Solid State Ionics*, **2020**, 352, 115354	3.3	2
16	Electrical Conductivity and 7Li NMR Spin-Lattice Relaxation in Amorphous, Nano- and Microcrystalline Li2O-7GeO2. *Springer Proceedings in Physics*, **2019**, 85-96	0.2	2
15	H NMR study on temperature-dependent water dynamics in amino-acid functionalized silica nanopores. *Journal of Chemical Physics*, **2021**, 154, 114702	3.9	2

14	Slow liquid dynamics near solid surfaces: Insights from site-resolved studies of ionic liquids in silica confinement.. *Journal of Chemical Physics*, **2022**, 156, 074501	3.9	1
13	7Li NMR Studies of Short-Range and Long-Range Lithium Ion Dynamics in a Heat-Treated Lithium Iodide-Doped Lithium Thiophosphate Glass Featuring High Ion Conductivity. *Journal of Physical Chemistry C*, **2020**, 124, 28614-28622	3.8	1
12	Coarse-grained model of a nanoscale-segregated ionic liquid for simulations of low-temperature structure and dynamics. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	1
11	Effect of Zr7Ni10 additive on hydrogen mobility in (TiCr1.8)1-V (x = 0.2, 0.4, 0.6, 0.8): An 1H NMR SFG study. *International Journal of Hydrogen Energy*, **2020**, 45, 7929-7937	6.7	1
10	MD simulations of charged binary mixtures reveal a generic relation between high- and low-temperature behavior. *Journal of Chemical Physics*, **2021**, 154, 024501	3.9	1
9	Concentration gradients in evaporating binary droplets probed by spatially resolved Raman and NMR spectroscopy.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2111989119	11.5	1
8	A Relation between the Formation of a Hydrogen-Bond Network and a Time-Scale Separation of Translation and Rotation in Molecular Liquids.. *Journal of Physical Chemistry Letters*, **2022**, 4556-4562	6.4	1
7	Confinement effects on glass-forming mixtures: Insights from a combined experimental approach to aqueous ethylene glycol solutions in silica pores.. *Journal of Chemical Physics*, **2022**, 156, 084506	3.9	0
6	Evaporation of Sessile Binary Mixture Droplets: Time Dependence of Droplet Shape and Concentration Profile from One-Dimensional Magnetic Resonance Microscopy. *Langmuir*, **2021**, 37, 13576-13583	4	0
5	Evidence of supercoolable nanoscale water clusters in an amorphous ionic liquid matrix. *Journal of Chemical Physics*, **2021**, 155, 174501	3.9	0
4	Anomalously High Fluorine Mobility in Tysonite-Like LaF3:ScF3 Nanocrystals: NMR Diffusion Data. *Applied Magnetic Resonance*, **2020**, 51, 1691-1699	0.8	0
3	Heterogeneous Rotational and Translational Dynamics in Glasses and Other Disordered Materials Studied by NMR **2018**, 1937-1956		
2	Heterogeneous Rotational and Translational Dynamics in Glasses and Other Disordered Materials Studied by NMR **2017**, 1-20		
1	Relaxation Processes in Molecular Liquids **2021**, 1013-1029		