

# Eugene Mamontov

## List of Publications by Year in descending order

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254  
papers

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57631

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77  
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260  
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260  
docs citations

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times ranked

8358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Defects and Oxygen Storage Capacity of Nanocrystalline Ceria and Ceria-Zirconia. <i>Journal of Physical Chemistry B</i> , 2000, 104, 11110-11116.	1.2	511
2	Observation of fragile-to-strong dynamic crossover in protein hydration water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9012-9016.	3.3	405
3	Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019, 4, 241-248.	19.8	363
4	A time-of-flight backscattering spectrometer at the Spallation Neutron Source, BASIS. <i>Review of Scientific Instruments</i> , 2011, 82, 085109.	0.6	296
5	Effect of Metal Ion Intercalation on the Structure of MXene and Water Dynamics on its Internal Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8859-8863.	4.0	225
6	Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. <i>ACS Nano</i> , 2017, 11, 11118-11126.	7.3	183
7	The origin of the dynamic transition in proteins. <i>Journal of Chemical Physics</i> , 2008, 128, 195106.	1.2	149
8	Dynamics and Structure of Hydration Water on Rutile and Cassiterite Nanopowders Studied by Quasielastic Neutron Scattering and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4328-4341.	1.5	132
9	Nanoscale Heterogeneities and Oxygen Storage Capacity of Ce <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2003, 107, 13007-13014.	1.2	126
10	Dynamics of Protein and its Hydration Water: Neutron Scattering Studies on Fully Deuterated GFP. <i>Biophysical Journal</i> , 2012, 103, 1566-1575.	0.2	121
11	Dynamics of water confined in single- and double-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2006, 124, 194703.	1.2	117
12	Experimental evidence of fragile-to-strong dynamic crossover in DNA hydration water. <i>Journal of Chemical Physics</i> , 2006, 125, 171103.	1.2	109
13	Glycerol Hydrogen-Bonding Network Dominates Structure and Collective Dynamics in a Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1261-1267.	1.2	106
14	Structural defects in a nano-scale powder of CeO <sub>2</sub> studied by pulsed neutron diffraction. <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 1345-1356.	1.9	103
15	Dynamics of Biological Macromolecules: Not a Simple Slaving by Hydration Water. <i>Biophysical Journal</i> , 2010, 98, 1321-1326.	0.2	103
16	Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. <i>Physical Review Letters</i> , 2016, 116, 167802.	2.9	92
17	Organization and Flexibility of Cyanobacterial Thylakoid Membranes Examined by Neutron Scattering. <i>Journal of Biological Chemistry</i> , 2013, 288, 3632-3640.	1.6	89
18	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019, 4, 2805-2812.	8.8	88

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19	Dynamics of water bound to crystalline cellulose. <i>Scientific Reports</i> , 2017, 7, 11840.	1.6	82
20	Dynamics of Hydration Water on Rutile Studied by Backscattering Neutron Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12334-12341.	1.5	79
21	Fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. <i>Europhysics Letters</i> , 2012, 97, 66004.	0.7	75
22	Differential Microscopic Mobility of Components within a Deep Eutectic Solvent. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2924-2928.	2.1	74
23	Proton Dynamics in N,N,N',N'-Tetramethylguanidinium Bis(perfluoroethylsulfonyl)imide Protic Ionic Liquid Probed by Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2009, 113, 159-169.	1.2	70
24	Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. <i>Journal of the American Chemical Society</i> , 2017, 139, 1098-1105.	6.6	68
25	Quasielastic and inelastic neutron scattering investigation of fragile-to-strong crossover in deeply supercooled water confined in nanoporous silica matrices. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2261-S2284.	0.7	67
26	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. <i>Advanced Functional Materials</i> , 2021, 31, 2104007.	7.8	64
27	Effect of antimicrobial peptide on the dynamics of phosphocholine membrane: role of cholesterol and physical state of bilayer. <i>Soft Matter</i> , 2015, 11, 6755-6767.	1.2	62
28	Suppression of the dynamic transition in surface water at low hydration levels: A study of water on rutile. <i>Physical Review E</i> , 2009, 79, 051504.	0.8	61
29	Recent Backscattering Instrument Developments at the ILL and SNS. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 33-60.	1.4	61
30	Excess wing in glass-forming glycerol and LiCl-glycerol mixtures detected by neutron scattering. <i>European Physical Journal E</i> , 2015, 38, 1.	0.7	61
31	Observation of fragile-to-strong liquid transition in surface water in CeO <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2005, 123, 171101.	1.2	60
32	Influence of Ions on Water Diffusion—A Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7724-7728.	1.2	58
33	Nanoscope Dynamics of Phospholipid in Unilamellar Vesicles: Effect of Gel to Fluid Phase Transition. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4460-4470.	1.2	58
34	Dynamical and Phase Behavior of a Phospholipid Membrane Altered by an Antimicrobial Peptide at Low Concentration. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2394-2401.	2.1	56
35	Gradual Crossover from Subdiffusion to Normal Diffusion: A Many-Body Effect in Protein Surface Water. <i>Physical Review Letters</i> , 2018, 120, 248101.	2.9	56
36	Incorporation of aspirin modulates the dynamical and phase behavior of the phospholipid membrane. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2514-2524.	1.3	54

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37	Mixed Ionic Liquid Improves Electrolyte Dynamics in Supercapacitors. Journal of Physical Chemistry C, 2018, 122, 10476-10481.	1.5	53
38	Characteristic features of water dynamics in restricted geometries investigated with quasi-elastic neutron scattering. Chemical Physics, 2016, 465-466, 1-8.	0.9	49
39	X-ray and Neutron Scattering Study of the Formation of Core-Shell-Type Polyoxometalates. Journal of the American Chemical Society, 2016, 138, 2638-2643.	6.6	49
40	Dynamics of water in LiCl and CaCl <sub>2</sub> aqueous solutions confined in silica matrices: A backscattering neutron spectroscopy study. Chemical Physics, 2008, 352, 117-124.	0.9	47
41	Modern approaches to studying gas adsorption in nanoporous carbons. Journal of Materials Chemistry A, 2013, 1, 9341.	5.2	47
42	Role of hydration water in dynamics of biological macromolecules. Chemical Physics, 2008, 345, 212-218.	0.9	46
43	Comment on "Structure and dynamics of liquid water on rutile TiO <sub>2</sub> (110)". Physical Review B, 2012, 85, .	1.1	46
44	Water-protein dynamic coupling and new opportunities for probing it at low to physiological temperatures in aqueous solutions. Physical Chemistry Chemical Physics, 2012, 14, 11573.	1.3	46
45	Solvent Polarity Governs Ion Interactions and Transport in a Solvated Room-Temperature Ionic Liquid. Journal of Physical Chemistry Letters, 2017, 8, 167-171.	2.1	45
46	Influence of metal ions intercalation on the vibrational dynamics of water confined between MXene layers. Physical Review Materials, 2017, 1, .	0.9	45
47	Hydration Control of the Mechanical and Dynamical Properties of Cellulose. Biomacromolecules, 2014, 15, 4152-4159.	2.6	44
48	Dynamics and Rigidity in an Intrinsically Disordered Protein, $\beta^2$ -Casein. Journal of Physical Chemistry B, 2014, 118, 7317-7326.	1.2	44
49	Dynamic susceptibility of supercooled water and its relation to the dynamic crossover phenomenon. Physical Review E, 2009, 79, 040201.	0.8	40
50	An unusual slowdown of fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2013, 102, 16004.	0.7	40
51	Effect of cation on diffusion coefficient of ionic liquids at onion-like carbon electrodes. Journal of Physics Condensed Matter, 2014, 26, 284104.	0.7	40
52	Influence of Surface Oxidation on Ion Dynamics and Capacitance in Porous and Nonporous Carbon Electrodes. Journal of Physical Chemistry C, 2016, 120, 8730-8741.	1.5	40
53	Effect of $\alpha$ -Tocopherol on the Microscopic Dynamics of Dimyristoylphosphatidylcholine Membrane. Journal of Physical Chemistry B, 2016, 120, 154-163.	1.2	40
54	Dynamics of surface water in ZrO <sub>2</sub> studied by quasielastic neutron scattering. Journal of Chemical Physics, 2004, 121, 9087-9097.	1.2	39

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55	Diffusion and adsorption of methane confined in nano-porous carbon aerogel: A combined quasi-elastic and small-angle neutron scattering study. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 148-153.	2.2	39
56	No fragile-to-strong crossover in LiCl-H <sub>2</sub> O solution. <i>Journal of Chemical Physics</i> , 2012, 136, 124512.	1.2	38
57	Diffusion Dynamics of Water Molecules in a LiCl Solution: A Low-Temperature Crossover. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14073-14078.	1.2	36
58	Mean-squared atomic displacements in hydrated lysozyme, native and denatured. <i>Journal of Biological Physics</i> , 2010, 36, 291-297.	0.7	36
59	Ionic liquid structure, dynamics, and electrosorption in carbon electrodes with bimodal pores and heterogeneous surfaces. <i>Carbon</i> , 2018, 129, 104-118.	5.4	36
60	Fast Proton Hopping Detection in Ice I <sub>h</sub> by Quasi-Elastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10245-10251.	1.5	35
61	Isotope Effect on Adsorbed Quantum Phases: Diffusion of $H_2$ and $D_2$ in Nanoporous Carbon. <i>Physical Review Letters</i> , 2013, 110, 236102.	2.9	35
62	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902207.	1.9	35
63	Microscopic Diffusion Dynamics of Silver Complex-Based Room-Temperature Ionic Liquids Probed by Quasielastic Neutron Scattering. <i>ChemPhysChem</i> , 2011, 12, 944-950.	1.0	33
64	Observation of high-temperature dynamic crossover in protein hydration water and its relation to reversible denaturation of lysozyme. <i>Journal of Chemical Physics</i> , 2009, 130, 135101.	1.2	32
65	Spatial-Temporal Characteristics of Confined Polymer Motion Determine Proton Conduction of Polyoxometalate-Poly(ethylene glycol) Hybrid Nanocomposites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5772-5777.	2.1	32
66	Critical Role of Anion-Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8457-8466.	1.5	32
67	A Low-Temperature Crossover in Water Dynamics in an Aqueous LiCl Solution: Diffusion Probed by Neutron Spin Echo and Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16737-16743.	1.2	30
68	Impact of hydration and temperature history on the structure and dynamics of lignin. <i>Green Chemistry</i> , 2018, 20, 1602-1611.	4.6	30
69	Effects of NSAIDs on the nanoscopic dynamics of lipid membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183100.	1.4	30
70	Observation of dynamic crossover and dynamic heterogeneity in hydration water confined in aged cement paste. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 502101.	0.7	29
71	Diffusion in single supported lipid bilayers studied by quasi-elastic neutron scattering. <i>Soft Matter</i> , 2010, 6, 5864.	1.2	29
72	Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. <i>Carbon</i> , 2012, 50, 1071-1082.	5.4	29

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73	Dynamics of Propane in Nanoporous Silica Aerogel: A Quasielastic Neutron Scattering Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18188-18195.	1.5	29
74	Capacitance, charge dynamics, and electrolyte-surface interactions in functionalized carbide-derived carbon electrodes. <i>Progress in Natural Science: Materials International</i> , 2015, 25, 631-641.	1.8	29
75	<i>In Vivo</i> Protein Dynamics on the Nanometer Length Scale and Nanosecond Time Scale. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1899-1904.	2.1	29
76	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1065-1089.	1.0	29
77	Understanding Functionalization of Titanium Carbide (MXene) with Quinones and Their Pseudocapacitance. <i>ACS Applied Energy Materials</i> , 2020, 3, 4127-4133.	2.5	29
78	Interplay between local dynamics and mechanical reinforcement in glassy polymer nanocomposites. <i>Physical Review Materials</i> , 2017, 1, .	0.9	29
79	BASIS: A New Backscattering Spectrometer at the SNS. <i>Neutron News</i> , 2008, 19, 22-24.	0.1	28
80	Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. <i>Physical Review E</i> , 2013, 88, 052306.	0.8	28
81	Strong Anisotropic Dynamics of Ultra-Confined Water. <i>Journal of Physical Chemistry B</i> , 2014, 118, 13414-13419.	1.2	28
82	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	5.2	28
83	Quasielastic neutron scattering of $\text{NH}_3$ and $\text{BH}_3$ rotational dynamics in orthorhombic ammonia borane. <i>Chemical Physics Letters</i> , 2008, 459, 85-88.	1.2	27
84	Li diffusive behavior of garnet-type oxides studied by muon-spin relaxation and QENS. <i>Solid State Ionics</i> , 2014, 262, 585-588.	1.3	27
85	Neutron Scattering Studies of the Interplay of Amyloid $\beta$ Peptide ( $\text{A}\beta_{40}$ ) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. <i>Scientific Reports</i> , 2016, 6, 30983.	1.6	27
86	Dynamical Transition of Collective Motions in Dry Proteins. <i>Physical Review Letters</i> , 2017, 119, 048101.	2.9	27
87	Neutron Scattering and Diffraction Studies of Fluids and Fluid-Solid Interactions. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 63, 313-362.	2.2	26
88	Direct Measurement of Hydrogen Dislocation Pipe Diffusion in Deformed Polycrystalline Pd Using Quasielastic Neutron Scattering. <i>Physical Review Letters</i> , 2014, 113, 025504.	2.9	26
89	Molecular Picture of the Transient Nature of Lipid Rafts. <i>Langmuir</i> , 2020, 36, 4887-4896.	1.6	26
90	Dynamic behavior of hydration water in calcium-silicate-hydrate gel: A quasielastic neutron scattering spectroscopy investigation. <i>Physical Review E</i> , 2012, 86, 061505.	0.8	25

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91	Electrolyte cation length influences electrosorption and dynamics in porous carbon supercapacitors. <i>Electrochimica Acta</i> , 2018, 283, 882-893.	2.6	25
92	Structure and Dynamics of Aqueous Electrolytes Confined in 2D-TiO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>2</sub> MXene Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 58378-58389.	4.0	25
93	Quasielastic neutron scattering study of water confined in carbon nanopores. <i>Europhysics Letters</i> , 2011, 95, 56001.	0.7	24
94	Apparent Decoupling of the Dynamics of a Protein from the Dynamics of its Aqueous Solvent. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 380-385.	2.1	24
95	Effect of carbon dioxide and nitrogen on the diffusivity of methane confined in nano-porous carbon aerogel. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 101-106.	2.2	24
96	Translational dynamics of water in the nanochannels of oriented chrysotile asbestos fibers. <i>Physical Review E</i> , 2005, 71, 061502.	0.8	23
97	Dynamics of ammonia borane using neutron scattering. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 266-268.	1.3	23
98	Experimental evidence of logarithmic relaxation in single-particle dynamics of hydrated protein molecules. <i>Soft Matter</i> , 2010, 6, 2623.	1.2	23
99	Enhanced translational diffusion of confined water under electric field. <i>Physical Review E</i> , 2012, 86, 021506.	0.8	23
100	Relationship between pore size and reversible and irreversible immobilization of ionic liquid electrolytes in porous carbon under applied electric potential. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	23
101	Membrane softening by nonsteroidal anti-inflammatory drugs investigated by neutron spin echo. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20211-20218.	1.3	23
102	Water dynamics in MCF-7 breast cancer cells: a neutron scattering descriptive study. <i>Scientific Reports</i> , 2019, 9, 8704.	1.6	23
103	Direct Observation of a Nuclear Spin Excitation in $\text{H}_2\text{O}$ . <i>Physical Review Letters</i> , 2009, 102, 015405.	1.9	23
104	Quasi-elastic Neutron Scattering Reveals Ligand-Induced Protein Dynamics of a G-Protein-Coupled Receptor. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4130-4136.	2.1	22
105	Nanoscope dynamics of bicontinuous microemulsions: effect of membrane associated protein. <i>Soft Matter</i> , 2017, 13, 4871-4880.	1.2	22
106	Ion Dynamics in Ionic-Liquid-Based Li-Ion Electrolytes Investigated by Neutron Scattering and Dielectric Spectroscopy. <i>ChemSusChem</i> , 2018, 11, 3512-3523.	3.6	22
107	Simple analytical model for fitting QENS data from liquids. <i>Physica B: Condensed Matter</i> , 2019, 566, 50-54.	1.3	22
108	Properties of immobile hydrogen confined in microporous carbon. <i>Carbon</i> , 2017, 117, 383-392.	5.4	21



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109	Microscopic dynamics in room-temperature ionic liquids confined in materials for supercapacitor applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1554-1576.	2.5	21
110	Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. <i>Physical Review Materials</i> , 2017, 1, .	0.9	21
111	Comment on "Quasielastic neutron scattering of two-dimensional water in a vermiculite clay" [J. Chem. Phys. 113, 2873 (2000)] and "A neutron spin-echo study of confined water" [J. Chem. Phys. 115, 11299.2 (2001)]. <i>Journal of Chemical Physics</i> , 2004, 121, 9193-9194.		20
112	High-resolution neutron-scattering study of slow dynamics of surface water molecules in zirconium oxide. <i>Journal of Chemical Physics</i> , 2005, 123, 024706.	1.2	20
113	Diffusion in confinement as a microscopic relaxation mechanism in glass-forming liquids. <i>Chemical Physics Letters</i> , 2012, 530, 55-60.	1.2	20
114	Precise determination of water exchanges on a mineral surface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28819-28828.	1.3	20
115	Microscopic diffusion processes measured in living planarians. <i>Scientific Reports</i> , 2018, 8, 4190.	1.6	20
116	Humidity Exposure Enhances Microscopic Mobility in a Room-Temperature Ionic Liquid in MXene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27561-27566.	1.5	20
117	Energy-dispersive surface X-ray scattering study of thin ceria overlayer on zirconia: Structural evolution with temperature. <i>Physica B: Condensed Matter</i> , 1998, 248, 95-100.	1.3	19
118	Quasielastic neutron scattering study of dynamics of CaCl <sub>2</sub> aqueous solution confined in Vycor glass. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4908.	1.3	19
119	Hydration-dependent dynamics of deeply cooled water under strong confinement. <i>Physical Review E</i> , 2013, 87, 042312.	0.8	19
120	Monitoring the dynamics of miscible P3HT:PCBM blends: A quasi elastic neutron scattering study of organic photovoltaic active layers. <i>Polymer</i> , 2015, 61, 155-162.	1.8	19
121	Counteractions Control Local Specific Bonding Interactions and Nucleation Mechanisms in Concentrated Water-in-Salt Solutions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3318-3325.	2.1	19
122	Influence of Kosmotrope and Chaotrope Salts on Water Structural Relaxation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8970-8975.	2.1	19
123	Structure and Dynamics of Fluids in Microporous and Mesoporous Earth and Engineered Materials. <i>Neutron Scattering Applications and Techniques</i> , 2009, , 547-570.	0.2	19
124	Neutron scattering study of hydrogen dynamics in Pr <sub>2</sub> Fe <sub>17</sub> H <sub>5</sub> . <i>Physical Review B</i> , 2004, 70, .	1.1	18
125	Temperature Dependence of Logarithmic-like Relaxational Dynamics of Hydrated tRNA. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 936-942.	2.1	18
126	Translational diffusion of water inside hydrophobic carbon micropores studied by neutron spectroscopy and molecular dynamics simulation. <i>Physical Review E</i> , 2015, 91, 022124.	0.8	16



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127	Water dynamics in rigid ionomer networks. <i>Journal of Chemical Physics</i> , 2016, 145, 224901.	1.2	16
128	Hydration level dependence of the microscopic dynamics of water adsorbed in ultramicroporous carbon. <i>Carbon</i> , 2017, 111, 705-712.	5.4	16
129	Disentangling Polymer Network and Hydration Water Dynamics in Polyhydroxyethyl Methacrylate Physical and Chemical Hydrogels. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19183-19194.	1.5	16
130	Effects of water on the stochastic motions of propane confined in MCM-41-S pores. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25035-25046.	1.3	16
131	Decoupling between the translation and rotation of water in the proximity of a protein molecule. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18132-18140.	1.3	16
132	Dynamical behaviors of structural, constrained and free water in calcium- and magnesium-silicate-hydrate gels. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 157-163.	5.0	15
133	Origin of dielectric relaxor behavior in PVDF-based copolymer and terpolymer films. <i>AIP Advances</i> , 2018, 8, .	0.6	15
134	Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. <i>Physical Review Materials</i> , 2017, 1, .	0.9	15
135	Water dynamics in a lithium chloride aqueous solution probed by Brillouin neutron and x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 064102.	0.7	14
136	Enhanced Dynamics of Hydrated tRNA on Nanodiamond Surfaces: A Combined Neutron Scattering and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10059-10068.	1.2	14
137	Ferroelectric to paraelectric phase transition mechanism in poled PVDF-TrFE copolymer films. <i>Physical Review B</i> , 2017, 96, .	1.1	14
138	In situ permeabilities of selected coastal marine sediments. <i>IEEE Journal of Oceanic Engineering</i> , 2002, 27, 571-580.	2.1	13
139	Diffusion of benzene confined in the oriented nanochannels of chrysotile asbestos fibers. <i>Physical Review E</i> , 2005, 72, 051502.	0.8	13
140	Fast oxygen diffusion in bismuth oxide probed by quasielastic neutron scattering. <i>Solid State Ionics</i> , 2016, 296, 158-162.	1.3	13
141	Protein dynamics as seen by (quasi) elastic neutron scattering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3504-3512.	1.1	13
142	Multiscale lipid membrane dynamics as revealed by neutron spectroscopy. <i>Progress in Lipid Research</i> , 2022, 87, 101179.	5.3	13
143	Electronic excitation in a catalytic support oxide, CeO <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2000, 61, 431-433.	1.9	12
144	Charge-Dependent Dynamics of a Polyelectrolyte Dendrimer and Its Correlation with Invasive Water. <i>Journal of the American Chemical Society</i> , 2013, 135, 5111-5117.	6.6	12

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145	Hydration-dependent dynamic crossover phenomenon in protein hydration water. <i>Physical Review E</i> , 2014, 90, 042705.	0.8	12
146	On the structure and dynamics of water associated with single-supported zwitterionic and anionic membranes. <i>Journal of Chemical Physics</i> , 2017, 146, 125102.	1.2	12
147	Quasi-Elastic Neutron Scattering Study of Hydration Water in Synthetic Cement: An Improved Analysis Method Based on a New Global Model. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12826-12833.	1.5	12
148	Coupled Multimodal Dynamics of Hydrogen-Containing Ion Networks in Water-Deficient, Sodium Hydroxide-Aluminate Solutions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12097-12106.	1.2	12
149	Cation Molecular Structure Affects Mobility and Transport of Electrolytes in Porous Carbons. <i>Journal of the Electrochemical Society</i> , 2019, 166, A507-A514.	1.3	12
150	Dynamics of Phenanthrenequinone on Carbon Nano-Onion Surfaces Probed by Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7291-7295.	1.2	11
151	Incorporation of Melittin Enhances Interfacial Fluidity of Bicontinuous Microemulsions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11197-11206.	1.5	11
152	Probing Li ion dynamics in amorphous $x\text{Li}_2\text{SO}_4 \cdot (1-x)\text{LiPO}_3$ by quasielastic neutron scattering. <i>Solid State Ionics</i> , 2019, 334, 95-98.	1.3	11
153	Molecular origins of bulk viscosity in liquid water. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9494-9502.	1.3	11
154	X-ray absorption and inelastic scattering studies of single-crystal $\text{CeO}_2$ . <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 819-823.	1.9	10
155	Temperature Dependence of the Local Structure in Pb Containing Relaxor Ferroelectrics. <i>AIP Conference Proceedings</i> , 2003, . .	0.3	10
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