# Eugene Mamontov

List of Publications by Year
in descending order

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|---|---|---|---|
| 254 papers | 8,002 citations | 57719 44 h-index | 69214 77 g-index |
| 260 all docs | 260 docs citations | 260 times ranked | 8358 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Lattice Defects and Oxygen Storage Capacity of Nanocrystalline Ceria and Ceria-Zirconia. Journal of Physical Chemistry B, 2000, 104, 11110-11116. | 1.2 | 511 |
| 2 | Observation of fragile-to-strong dynamic crossover in protein hydration water. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9012-9016. | 3.3 | 405 |
| 3 | Influences from solvents on charge storage in titanium carbide MXenes. Nature Energy, 2019, 4, 241-248. | 19.8 | 363 |
| 4 | A time-of-flight backscattering spectrometer at the Spallation Neutron Source, BASIS. Review of Scientific Instruments, 2011, 82, 085109. | 0.6 | 296 |
| 5 | Effect of Metal Ion Intercalation on the Structure of MXene and Water Dynamics on its Internal Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 8859-8863. | 4.0 | 225 |
| 6 | Multimodality of Structural, Electrical, and Gravimetric Responses of Intercalated MXenes to Water. ACS Nano, 2017, 11, 11118-11126. | 7.3 | 183 |
| 7 | The origin of the dynamic transition in proteins. Journal of Chemical Physics, 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. Journal of Physical Chemistry C, 2007, 111, 4328-4341. | 1.5 | 132 |
| 9 | Nanoscale Heterogeneities and Oxygen Storage Capacity of Ce0.5Zr0.5O2. Journal of Physical Chemistry B, 2003, 107, 13007-13014. | 1.2 | 126 |
| 10 | Dynamics of Protein and its Hydration Water: Neutron Scattering Studies on Fully Deuterated GFP. Biophysical Journal, 2012, 103, 1566-1575. | 0.2 | 121 |
| 11 | Dynamics of water confined in single- and double-wall carbon nanotubes. Journal of Chemical Physics, 2006, 124, 194703. | 1.2 | 117 |
| 12 | Experimental evidence of fragile-to-strong dynamic crossover in DNA hydration water. Journal of Chemical Physics, 2006, 125, 171103. | 1.2 | 109 |
| 13 | Glycerol Hydrogen-Bonding Network Dominates Structure and Collective Dynamics in a Deep Eutectic Solvent. Journal of Physical Chemistry B, 2018, 122, 1261-1267. | 1.2 | 106 |
| 14 | Structural defects in a nano-scale powder of CeO 2 studied by pulsed neutron diffraction. Journal of Physics and Chemistry of Solids, 2000, 61, 1345-1356. | 1.9 | 103 |
| 15 | Dynamics of Biological Macromolecules: Not a Simple Slaving by Hydration Water. Biophysical Journal, 2010, 98, 1321-1326. | 0.2 | 103 |
| 16 | Quantum Tunneling of Water in Beryl: A New State of the Water Molecule. Physical Review Letters, 2016, 116, 167802. | 2.9 | 92 |
| 17 | Organization and Flexibility of Cyanobacterial Thylakoid Membranes Examined by Neutron Scattering. Journal of Biological Chemistry, 2013, 288, 3632-3640. | 1.6 | 89 |
| 18 | Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. ACS Energy Letters, 2019, 4, 2805-2812. | 8.8 | 88 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dynamics of water bound to crystalline cellulose. Scientific Reports, 2017, 7, 11840. | 1.6 | 82 |
| 20 | Dynamics of Hydration Water on Rutile Studied by Backscattering Neutron Spectroscopy and Molecular Dynamics Simulation. Journal of Physical Chemistry C, 2008, 112, 12334-12341. | 1.5 | 79 |
| 21 | Fast diffusion in a room temperature ionic liquid confined in mesoporous carbon. Europhysics Letters, 2012, 97, 66004. | 0.7 | 75 |
| 22 | Differential Microscopic Mobility of Components within a Deep Eutectic Solvent. Journal of Physical Chemistry Letters, 2015, 6, 2924-2928. | 2.1 | 74 |
| 23 | Proton Dynamics in N,N,Nâ€²,Nâ€²-Tetramethylguanidinium Bis(perfluoroethylsulfonyl)imide Protic Ionic Liquid Probed by Quasielastic Neutron Scattering. Journal of Physical Chemistry B, 2009, 113, 159-169. | 1.2 | 70 |
| 24 | Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. Journal of the American Chemical Society, 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. Journal of Physics Condensed Matter, 2006, 18, S2261-S2284. | 0.7 | 67 |
| 26 | Engineering the Interlayer Spacing by Preâ€Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. Advanced Functional Materials, 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. Soft Matter, 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. Physical Review E, 2009, 79, 051504. | 0.8 | 61 |
| 29 | Recent Backscattering Instrument Developments at the ILL and SNS. Zeitschrift Fur Physikalische Chemie, 2010, 224, 33-60. | 1.4 | 61 |
| 30 | Excess wing in glass-forming glycerol and LiCl-glycerol mixtures detected by neutron scattering. European Physical Journal E, 2015, 38, 1. | 0.7 | 61 |
| 31 | Observation of fragile-to-strong liquid transition in surface water in CeO2. Journal of Chemical Physics, 2005, 123, 171101. | 1.2 | 60 |
| 32 | Influence of Ions on Water Diffusionâ€”A Neutron Scattering Study. Journal of Physical Chemistry B, 2013, 117, 7724-7728. | 1.2 | 58 |
| 33 | Nanoscopic Dynamics of Phospholipid in Unilamellar Vesicles: Effect of Gel to Fluid Phase Transition. Journal of Physical Chemistry B, 2015, 119, 4460-4470. | 1.2 | 58 |
| 34 | Dynamical and Phase Behavior of a Phospholipid Membrane Altered by an Antimicrobial Peptide at Low Concentration. Journal of Physical Chemistry Letters, 2016, 7, 2394-2401. | 2.1 | 56 |
| 35 | Gradual Crossover from Subdiffusion to Normal Diffusion: A Many-Body Effect in Protein Surface Water. Physical Review Letters, 2018, 120, 248101. | 2.9 | 56 |
| 36 | Incorporation of aspirin modulates the dynamical and phase behavior of the phospholipid membrane. Physical Chemistry Chemical Physics, 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 Coreâ€“Shell-Type Polyoxometalates. Journal of the American Chemical Society, 2016, 138, 2638-2643. | 6.6 | 49 |
| 40 | Dynamics of water in LiCl and CaCl2 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 â€œStructure and dynamics of liquid water on rutile TiO2(110)â€• Physical Review B, 2012, 85, . | 1.1 | 46 |
| 44 | Waterâ€“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, Î²-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 Î±-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 ZrO2 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. Microporous and Mesoporous Materials, 2010, 132, 148-153. | 2.2 | 39 |
| 56 | No fragile-to-strong crossover in LiCl-H2O solution. Journal of Chemical Physics, 2012, 136, 124512. | 1.2 | 38 |
| 57 | Diffusion Dynamics of Water Molecules in a LiCl Solution: A Low-Temperature Crossover. Journal of Physical Chemistry B, 2009, 113, 14073-14078. | 1.2 | 36 |
| 58 | Mean-squared atomic displacements in hydrated lysozyme, native and denatured. Journal of Biological Physics, 2010, 36, 291-297. | 0.7 | 36 |
| 59 | Ionic liquid structure, dynamics, and electrosorption in carbon electrodes with bimodal pores and heterogeneous surfaces. Carbon, 2018, 129, 104-118. | 5.4 | 36 |
| 60 | Fast Proton Hopping Detection in Ice I<sub>h</sub> by Quasi-Elastic Neutron Scattering. Journal of Physical Chemistry C, 2011, 115, 10245-10251. | 1.5 | 35 |
| 61 | Isotope Effect on Adsorbed Quantum Phases: Diffusion of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>in Nanoporous Carbon. Physical Review Letters, 2013, 110, 236102. | 2.9 | 35 |
| 62 | Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. Advanced Materials Interfaces, 2020, 7, 1902207. | 1.9 | 35 |
| 63 | Microscopic Diffusion Dynamics of Silver Complexâ€Based Roomâ€Temperature Ionic Liquids Probed by Quasielastic Neutron Scattering. ChemPhysChem, 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. Journal of Chemical Physics, 2009, 130, 135101. | 1.2 | 32 |
| 65 | Spatial-Temporal Characteristics of Confined Polymer Motion Determine Proton Conduction of Polyoxometalateâ€“Poly(ethylene glycol) Hybrid Nanocomposites. Journal of Physical Chemistry Letters, 2018, 9, 5772-5777. | 2.1 | 32 |
| 66 | Critical Role of Anionâ€“Solvent Interactions for Dynamics of Solvent-in-Salt Solutions. Journal of Physical Chemistry C, 2020, 124, 8457-8466. | 1.5 | 32 |
| 67 | A Low-Temperature Crossover in Water Dynamics in an Aqueous LiCl Solution: Diffusion Probed by Neutron Spinâ^'Echo and Nuclear Magnetic Resonance. Journal of Physical Chemistry B, 2010, 114, 16737-16743. | 1.2 | 30 |
| 68 | Impact of hydration and temperature history on the structure and dynamics of lignin. Green Chemistry, 2018, 20, 1602-1611. | 4.6 | 30 |
| 69 | Effects of NSAIDs on the nanoscopic dynamics of lipid membrane. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183100. | 1.4 | 30 |
| 70 | Observation of dynamic crossover and dynamic heterogeneity in hydration water confined in aged cement paste. Journal of Physics Condensed Matter, 2008, 20, 502101. | 0.7 | 29 |
| 71 | Diffusion in single supported lipid bilayers studied by quasi-elastic neutron scattering. Soft Matter, 2010, 6, 5864. | 1.2 | 29 |
| 72 | Restricted dynamics of molecular hydrogen confined in activated carbon nanopores. Carbon, 2012, 50, 1071-1082. | 5.4 | 29 |

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| 73 | Dynamics of Propane in Nanoporous Silica Aerogel: A Quasielastic Neutron Scattering Study. Journal of Physical Chemistry C, 2015, 119, 18188-18195. | 1.5 | 29 |
| 74 | Capacitance, charge dynamics, and electrolyte-surface interactions in functionalized carbide-derived carbon electrodes. Progress in Natural Science: Materials International, 2015, 25, 631-641. | 1.8 | 29 |
| 75 | In Vivo Protein Dynamics on the Nanometer Length Scale and Nanosecond Time Scale. Journal of Physical Chemistry Letters, 2017, 8, 1899-1904. | 2.1 | 29 |
| 76 | Neutron Instruments for Research in Coordination Chemistry. European Journal of Inorganic Chemistry, 2019, 2019, 1065-1089. | 1.0 | 29 |
| 77 | Understanding Functionalization of Titanium Carbide (MXene) with Quinones and Their Pseudocapacitance. ACS Applied Energy Materials, 2020, 3, 4127-4133. | 2.5 | 29 |
| 78 | Interplay between local dynamics and mechanical reinforcement in glassy polymer nanocomposites. Physical Review Materials, 2017, 1, . | 0.9 | 29 |
| 79 | BASIS: A New Backscattering Spectrometer at the SNS. Neutron News, 2008, 19, 22-24. | 0.1 | 28 |
| 80 | Anisotropic dynamics of water ultraconfined in macroscopically oriented channels of single-crystal beryl: A multifrequency analysis. Physical Review E, 2013, 88, 052306. | 0.8 | 28 |
| 81 | Strong Anisotropic Dynamics of Ultra-Confined Water. Journal of Physical Chemistry B, 2014, 118, 13414-13419. | 1.2 | 28 |
| 82 | Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. Journal of Materials Chemistry A, 2020, 8, 412-421. | 5.2 | 28 |
| 83 | Quasielastic neutron scattering of â€“NH3 and â€“BH3 rotational dynamics in orthorhombic ammonia borane. Chemical Physics Letters, 2008, 459, 85-88. | 1.2 | 27 |
| 84 | Li diffusive behavior of garnet-type oxides studied by muon-spin relaxation and QENS. Solid State Ionics, 2014, 262, 585-588. | 1.3 | 27 |
| 85 | Neutron Scattering Studies of the Interplay of Amyloid Î² Peptide(1â€“40) and An Anionic Lipid 1,2-dimyristoyl-sn-glycero-3-phosphoglycerol. Scientific Reports, 2016, 6, 30983. | 1.6 | 27 |
| 86 | Dynamical Transition of Collective Motions in Dry Proteins. Physical Review Letters, 2017, 119, 048101. | 2.9 | 27 |
| 87 | Neutron Scattering and Diffraction Studies of Fluids and Fluid-Solid Interactions. Reviews in Mineralogy and Geochemistry, 2006, 63, 313-362. | 2.2 | 26 |
| 88 | Direct Measurement of Hydrogen Dislocation Pipe Diffusion in Deformed Polycrystalline Pd Using Quasielastic Neutron Scattering. Physical Review Letters, 2014, 113, 025504. | 2.9 | 26 |
| 89 | Molecular Picture of the Transient Nature of Lipid Rafts. Langmuir, 2020, 36, 4887-4896. | 1.6 | 26 |
| 90 | Dynamic behavior of hydration water in calcium-silicate-hydrate gel: A quasielastic neutron scattering spectroscopy investigation. Physical Review E, 2012, 86, 061505. | 0.8 | 25 |

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| 91 | Electrolyte cation length influences electrosorption and dynamics in porous carbon supercapacitors. Electrochimica Acta, 2018, 283, 882-893. | 2.6 | 25 |
| 92 | Structure and Dynamics of Aqueous Electrolytes Confined in 2D-TiO2/Ti3C2T2 MXene Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 58378-58389. | 4.0 | 25 |
| 93 | Quasielastic neutron scattering study of water confined in carbon nanopores. Europhysics Letters, 2011, 95, 56001. | 0.7 | 24 |
| 94 | Apparent Decoupling of the Dynamics of a Protein from the Dynamics of its Aqueous Solvent. Journal of Physical Chemistry Letters, 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. Microporous and Mesoporous Materials, 2012, 148, 101-106. | 2.2 | 24 |
| 96 | Translational dynamics of water in the nanochannels of oriented chrysotile asbestos fibers. Physical Review E, 2005, 71, 061502. | 0.8 | 23 |
| 97 | Dynamics of ammonia borane using neutron scattering. Physica B: Condensed Matter, 2006, 385-386, 266-268. | 1.3 | 23 |
| 98 | Experimental evidence of logarithmic relaxation in single-particle dynamics of hydrated protein molecules. Soft Matter, 2010, 6, 2623. | 1.2 | 23 |
| 99 | Enhanced translational diffusion of confined water under electric field. Physical Review E, 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. Applied Physics Letters, 2016, 109, . | 1.5 | 23 |
| 101 | Membrane softening by nonsteroidal anti-inflammatory drugs investigated by neutron spin echo. Physical Chemistry Chemical Physics, 2019, 21, 20211-20218. | 1.3 | 23 |
| 102 | Water dynamics in MCF-7 breast cancer cells: a neutron scattering descriptive study. Scientific Reports, 2019, 9, 8704. | 1.6 | 23 |
| 103 | Direct Observation of a Nuclear Spin Excitation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ho</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Ti</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 102, 016405. | 7.5 | 22 |
| 104 | Quasi-elastic Neutron Scattering Reveals Ligand-Induced Protein Dynamics of a G-Protein-Coupled Receptor. Journal of Physical Chemistry Letters, 2016, 7, 4130-4136. | 2.1 | 22 |
| 105 | Nanoscopic dynamics of bicontinous microemulsions: effect of membrane associated protein. Soft Matter, 2017, 13, 4871-4880. | 1.2 | 22 |
| 106 | Ion Dynamics in Ionicâ€Liquidâ€Based Liâ€Ion Electrolytes Investigated by Neutron Scattering and Dielectric Spectroscopy. ChemSusChem, 2018, 11, 3512-3523. | 3.6 | 22 |
| 107 | Simple analytical model for fitting QENS data from liquids. Physica B: Condensed Matter, 2019, 566, 50-54. | 1.3 | 22 |
| 108 | Properties of immobile hydrogen confined in microporous carbon. Carbon, 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. Sustainable Energy and Fuels, 2020, 4, 1554-1576. | 2.5 | 21 |
| 110 | Evidence of molecular hydrogen trapped in two-dimensional layered titanium carbide-based MXene. Physical Review Materials, 2017, 1, . | 0.9 | 21 |
| 111 | Comment on â€œQuasielastic neutron scattering of two-dimensional water in a vermiculite clayâ€•[J. Chem. Phys. 113, 2873 (2000)] and â€œA neutron spin-echo study of confined waterâ€•[J. Chem. Phys. 115, 11299 (2001)]. Journal of Chemical Physics, 2004, 121, 9193-9194. | 1.2 | 20 |
| 112 | High-resolution neutron-scattering study of slow dynamics of surface water molecules in zirconium oxide. Journal of Chemical Physics, 2005, 123, 024706. | 1.2 | 20 |
| 113 | Diffusion in confinement as a microscopic relaxation mechanism in glass-forming liquids. Chemical Physics Letters, 2012, 530, 55-60. | 1.2 | 20 |
| 114 | Precise determination of water exchanges on a mineral surface. Physical Chemistry Chemical Physics, 2016, 18, 28819-28828. | 1.3 | 20 |
| 115 | Microscopic diffusion processes measured in living planarians. Scientific Reports, 2018, 8, 4190. | 1.6 | 20 |
| 116 | Humidity Exposure Enhances Microscopic Mobility in a Room-Temperature Ionic Liquid in MXene. Journal of Physical Chemistry C, 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. Physica B: Condensed Matter, 1998, 248, 95-100. | 1.3 | 19 |
| 118 | Quasielastic neutron scattering study of dynamics of CaCl2 aqueous solution confined in Vycor glass. Physical Chemistry Chemical Physics, 2006, 8, 4908. | 1.3 | 19 |
| 119 | Hydration-dependent dynamics of deeply cooled water under strong confinement. Physical Review E, 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. Polymer, 2015, 61, 155-162. | 1.8 | 19 |
| 121 | Countercations Control Local Specific Bonding Interactions and Nucleation Mechanisms in Concentrated Water-in-Salt Solutions. Journal of Physical Chemistry Letters, 2019, 10, 3318-3325. | 2.1 | 19 |
| 122 | Influence of Kosmotrope and Chaotrope Salts on Water Structural Relaxation. Journal of Physical Chemistry Letters, 2020, 11, 8970-8975. | 2.1 | 19 |
| 123 | Structure and Dynamics of Fluids in Microporous and Mesoporous Earth and Engineered Materials. Neutron Scattering Applications and Techniques, 2009, , 547-570. | 0.2 | 19 |
| 124 | Neutron scattering study of hydrogen dynamics in Pr2Fe17H5. Physical Review B, 2004, 70, . | 1.1 | 18 |
| 125 | Temperature Dependence of Logarithmic-like Relaxational Dynamics of Hydrated tRNA. Journal of Physical Chemistry Letters, 2013, 4, 936-942. | 2.1 | 18 |
| 126 | Translational diffusion of water inside hydrophobic carbon micropores studied by neutron spectroscopy and molecular dynamics simulation. Physical Review E, 2015, 91, 022124. | 0.8 | 16 |

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| 127 | Water dynamics in rigid ionomer networks. Journal of Chemical Physics, 2016, 145, 224901. | 1.2 | 16 |
| 128 | Hydration level dependence of the microscopic dynamics of water adsorbed in ultramicroporous carbon. Carbon, 2017, 111, 705-712. | 5.4 | 16 |
| 129 | Disentangling Polymer Network and Hydration Water Dynamics in Polyhydroxyethyl Methacrylate Physical and Chemical Hydrogels. Journal of Physical Chemistry C, 2019, 123, 19183-19194. | 1.5 | 16 |
| 130 | Effects of water on the stochastic motions of propane confined in MCM-41-S pores. Physical Chemistry Chemical Physics, 2019, 21, 25035-25046. | 1.3 | 16 |
| 131 | Decoupling between the translation and rotation of water in the proximity of a protein molecule. Physical Chemistry Chemical Physics, 2020, 22, 18132-18140. | 1.3 | 16 |
| 132 | Dynamical behaviors of structural, constrained and free water in calcium- and magnesium-silicate-hydrate gels. Journal of Colloid and Interface Science, 2016, 469, 157-163. | 5.0 | 15 |
| 133 | Origin of dielectric relaxor behavior in PVDF-based copolymer and terpolymer films. AIP Advances, 2018, 8, . | 0.6 | 15 |
| 134 | Influence of humidity on performance and microscopic dynamics of an ionic liquid in supercapacitor. Physical Review Materials, 2017, 1, . | 0.9 | 15 |
| 135 | Water dynamics in a lithium chloride aqueous solution probed by Brillouin neutron and x-ray scattering. Journal of Physics Condensed Matter, 2012, 24, 064102. | 0.7 | 14 |
| 136 | Enhanced Dynamics of Hydrated tRNA on Nanodiamond Surfaces: A Combined Neutron Scattering and MD Simulation Study. Journal of Physical Chemistry B, 2016, 120, 10059-10068. | 1.2 | 14 |
| 137 | Ferroelectric to paraelectric phase transition mechanism in poled PVDF-TrFE copolymer films. Physical Review B, 2017, 96, . | 1.1 | 14 |
| 138 | In situ permeabilities of selected coastal marine sediments. IEEE Journal of Oceanic Engineering, 2002, 27, 571-580. | 2.1 | 13 |
| 139 | Diffusion of benzene confined in the oriented nanochannels of chrysotile asbestos fibers. Physical Review E, 2005, 72, 051502. | 0.8 | 13 |
| 140 | Fast oxygen diffusion in bismuth oxide probed by quasielastic neutron scattering. Solid State Ionics, 2016, 296, 158-162. | 1.3 | 13 |
| 141 | Protein dynamics as seen by (quasi) elastic neutron scattering. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3504-3512. | 1.1 | 13 |
| 142 | Multiscale lipid membrane dynamics as revealed by neutron spectroscopy. Progress in Lipid Research, 2022, 87, 101179. | 5.3 | 13 |
| 143 | Electronic excitation in a catalytic support oxide, CeO2. Journal of Physics and Chemistry of Solids, 2000, 61, 431-433. | 1.9 | 12 |
| 144 | Charge-Dependent Dynamics of a Polyelectrolyte Dendrimer and Its Correlation with Invasive Water. Journal of the American Chemical Society, 2013, 135, 5111-5117. | 6.6 | 12 |

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| 145 | Hydration-dependent dynamic crossover phenomenon in protein hydration water. Physical Review E, 2014, 90, 042705. | 0.8 | 12 |
| 146 | On the structure and dynamics of water associated with single-supported zwitterionic and anionic membranes. Journal of Chemical Physics, 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. Journal of Physical Chemistry C, 2017, 121, 12826-12833. | 1.5 | 12 |
| 148 | Coupled Multimodal Dynamics of Hydrogen-Containing Ion Networks in Water-Deficient, Sodium Hydroxide-Aluminate Solutions. Journal of Physical Chemistry B, 2018, 122, 12097-12106. | 1.2 | 12 |
| 149 | Cation Molecular Structure Affects Mobility and Transport of Electrolytes in Porous Carbons. Journal of the Electrochemical Society, 2019, 166, A507-A514. | 1.3 | 12 |
| 150 | Dynamics of Phenanthrenequinone on Carbon Nano-Onion Surfaces Probed by Quasielastic Neutron Scattering. Journal of Physical Chemistry B, 2012, 116, 7291-7295. | 1.2 | 11 |
| 151 | Incorporation of Melittin Enhances Interfacial Fluidity of Bicontinuous Microemulsions. Journal of Physical Chemistry C, 2019, 123, 11197-11206. | 1.5 | 11 |
| 152 | Probing Li ion dynamics in amorphous xLi2SO4â‹…(1â€¯â^'â€¯x)LiPO3 by quasielastic neutron scattering. Solid State Ionics, 2019, 334, 95-98. | 1.3 | 11 |
| 153 | Molecular origins of bulk viscosity in liquid water. Physical Chemistry Chemical Physics, 2020, 22, 9494-9502. | 1.3 | 11 |
| 154 | X-ray absorption and inelastic scattering studies of single-crystal CeO2. Journal of Physics and Chemistry of Solids, 2001, 62, 819-823. | 1.9 | 10 |
| 155 | Temperature Dependence of the Local Structure in Pb Containing Relaxor Ferroelectrics. AIP Conference Proceedings, 2003, , . | 0.3 | 10 |
| 156 | Slow dynamics of water molecules in an aqueous solution of lithium chloride probed by neutron spin-echo. Physical Chemistry Chemical Physics, 2013, 15, 10732. | 1.3 | 10 |
| 157 | Structure and dynamics of water on the forsterite surface. Physical Chemistry Chemical Physics, 2018, 20, 27822-27829. | 1.3 | 10 |
| 158 | Effect of magnetic fields on the methyl rotation in a paramagnetic cobalt(<scp>ii</scp>) complex. Quasielastic neutron scattering studies. Physical Chemistry Chemical Physics, 2018, 20, 21119-21126. | 1.3 | 10 |
| 159 | Fast Rotational Diffusion of Water Molecules in a 2D Hydrogen Bond Network at Cryogenic Temperatures. Physical Review Letters, 2018, 120, 196001. | 2.9 | 10 |
| 160 | A concept of a broadband inverted geometry spectrometer for the Second Target Station at the Spallation Neutron Source. Review of Scientific Instruments, 2022, 93, 045101. | 0.6 | 10 |
| 161 | Acoustic phonons in chrysotile asbestos probed by high-resolution inelastic x-ray scattering. Solid State Communications, 2009, 149, 589-592. | 0.9 | 9 |
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