Pressure and temperature dependence of the self diffus oxygen-18 water

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Citation Report

#	Article	IF	Citations
1	Transport properties of compressed atomic and molecular liquids, and solids and the molar volume. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1981, 103, 133-157.	0.9	12
2	Selfâ€diffusion in compressed supercritical water. Journal of Chemical Physics, 1981, 74, 6875-6880.	3.0	215
3	The distribution of deuterium and 18O in dry soils. Journal of Hydrology, 1983, 60, 141-156.	5.4	283
4	Diffusion in binary non-electrolyte systems and in ternary mixtures. , 1984, , 311-386.		2
5	A general empirical relationship between tracer or self-diffusion coefficients of liquids and pressure. AICHE Journal, 1984, 30, 641-642.	3.6	7
6	Studies of Liquid Water by Computer Simulations. III. Dynamical Properties of a 2-D Model. Bulletin of the Chemical Society of Japan, 1984, 57, 1522-1527.	3.2	7
7	Estimation of evaporation from the normally â€œdryâ€•Lake Frome in South Australia. Journal of Hydrology, 1985, 78, 229-242.	5.4	127
8	Transport Properties of Liquids. V. Self Diffusion, Viscosity, and Mass Density of Ellipsoidal Shaped Molecules in the Pure Liquid Phase. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 896-905.	0.9	89
9	Dielectric relaxation in water. Computer simulations with the TIP4P potential. Journal of Chemical Physics, 1986, 85, 1567-1580.	3.0	356
10	Studies of Liquid Water by Computer Simulations. IV. Transport Properties of a 2-D Model. Bulletin of the Chemical Society of Japan, 1986, 59, 1425-1431.	3.2	4
11	Tracing of water movement in the unsaturated zone using stable isotopes of hydrogen and oxygen. Journal of Hydrology, 1988, 100, 143-176.	5.4	359
12	Self-diffusion measurements of ethanol and propanol. Molecular Physics, 1988, 63, 85-95.	1.7	64
13	The Pressure Dependence of Self Diffusion in Supercooled Light and Heavy Water. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1988, 92, 1111-1117.	0.9	160
14	Molecular dynamics study of the aqueous core of a reversed ionic micelle. Journal of Chemical Physics, 1989, 90, 4992-5004.	3.0	75
15	The effect of siteâ€specific isotopic substitutions on transport coefficients of liquid methanol. Journal of Chemical Physics, 1989, 91, 2568-2574.	3.0	41
16	Studies of Liquid Water by Computer Simulations. VI. Transport Properties of Carravettaâ€“Clementi Water. Bulletin of the Chemical Society of Japan, 1989, 62, 1421-1431.	3.2	21
17	Isotope Effects upon Translational Diffusion as a Probe for Translationâ€Rotation Coupling in Molecular Liquids. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1990, 94, 332-336.	0.9	28
18	Dynamics of Liquids and Supercooled Water Studied by High Pressure Pulse NMR. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1990, 94, 325-332.	0.9	12

#	Article	IF	Citations
19	Diffusion of Polar and Nonpolar Molecules in Water and Ethanol. Bulletin of the Chemical Society of Japan, 1990, 63, 533-537.	3.2	55
20	Correlation between equation of state and temperature and pressure dependence of self-diffusion coefficient of polymers and simple liquids. Polymer, 1990, 31, 2338-2345.	3.8	5
21	Rapid determination of water droplet size distributions by PFG-NMR. Journal of Colloid and Interface Science, 1990, 140, 105-113.	9.4	93
22	High Pressure NMR Studies on Water and Aqueous Solutions. Nmr, 1990, , 129-187.	0.5	11
23	Transport Properties of Liquids. VIII. Molar Volume and Selfdiffusion of Organic Liquids at Pressures up to 200 MPa. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1990, 94, 746-758.	0.9	33
24	Water Content and Solute Diffusion Properties in Articular Cartilage. , 1990, , 363-390.		20
25	Density dependence of rotational and translational molecular dynamics in liquids studied by high pressure NMR. Progress in Nuclear Magnetic Resonance Spectroscopy, 1993, 25, 507-633.	7.5	56
26	Rapid monitoring of changes in water diffusion coefficients during reversible ischemia in cat and rat brain. Magnetic Resonance in Medicine, 1994, 31, 454-460.	3.0	160
27	Accurate correlations for the self-diffusion coefficients of CO2, CH4, C2H4, H2O, and D2O over wide ranges of temperature and pressure. Journal of Supercritical Fluids, 1995, 8, 310-317.	3.2	44
28	Determination of droplet size distributions in emulsions by pulsed field gradient NMR. , 1995, , 151-162.		4
29	Modeling the Transport of Water Stable Isotopes in Unsaturated Soils Under Natural Conditions: 1. Theory. Water Resources Research, 1996, 32, 2047-2054.	4.2	36
30	Tracer Diffusion of Water in Organic Liquids. Journal of Chemical & Engineering Data, 1996, 41, 741-744.	1.9	56
31	Self-diffusion of water in a natural hypersaline solution (Dead Sea brine). Geophysical Research Letters, 1996, 23, 845-848.	4.0	9
32	Tetrahedral Displacement:Â The Molecular Mechanism behind the Debye Relaxation in Water. The Journal of Physical Chemistry, 1996, 100, 1072-1080.	2.9	206
33	Radiation chemistry of aqueous solutions of hydrazine at elevated temperatures. Part 1.â€"Oxygen-free solutions. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1519-1525.	1.7	35
34	Density dependence of self-diffusion in liquid pentanes and pentane mixtures. Molecular Physics, 1996, 88, 437-452.	1.7	23
35	Proton Conductivity:Â Materials and Applications. Chemistry of Materials, 1996, 8, 610-641.	6.7	2,144
36	A numerical model for the simulation of stable isotope profiles in drying soils. Journal of Geophysical Research, 1996, 101, 12685-12696.	3.3	100

#	Article	IF	Citations
37	NMR-detected tracer technique to measure diffusion in condensed matter. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2091-2095.	1.7	3
38	Homogeneous nucleation of supercooled water: Results from a new equation of state. Journal of Geophysical Research, 1997, 102, 25269-25279.	3.3	91
39	Self-Diffusion of Water at Low Temperatures and High Pressure. Journal of Chemical & Engineering Data, 1997, 42, 346-348.	1.9	68
40	Diffusion of Li+ ions in concentrated solutions of LiNO3 in 1,3-diaminopropane. Journal of Solution Chemistry, 1997, 26, 1013-1019.	1.2	1
41	Diffusion imaging of human breast. NMR in Biomedicine, 1997, 10, 348-352.	2.8	74
42	Unified approach to the self-diffusion coefficients of dense fluids over wide ranges of temperature and pressureâ€"hard-sphere, square-well, Lennardâ€"Jones and real substances. Chemical Engineering Science, 1998, 53, 2403-2422.	3.8	115
43	Models for self-diffusion coefficients of dense fluids, including hydrogen-bonding substances. Chemical Engineering Science, 1998, 53, 2423-2429.	3.8	50
44	Magnetic Resonance Imaging of Acute Stroke. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 583-609.	4.3	533
45	Diffusion of Radiotracers in Normal and Ischemic Brain Slices. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 776-802.	4.3	34
46	Single-shot diffusion-weighted trace imaging on a clinical scanner. Magnetic Resonance in Medicine, 1998, 40, 622-628.	3.0	24
47	On transport properties of hot liquid and supercritical water and their relationship to the hydrogen bonding. Fluid Phase Equilibria, 1999, 164, 131-142.	2.5	26
48	Water diffusion compartmentation and anisotropy at high b values in the human brain. Magnetic Resonance in Medicine, 2000, 44, 852-859.	3.0	391
49	Molecular dynamics simulations of polarizable water at different boundary conditions. Journal of Chemical Physics, 2000, 112, 6386-6395.	3.0	43
50	Equilibrium molecular dynamics calculation of the bulk viscosity of liquid water. Molecular Physics, 2001, 99, 283-289.	1.7	70
51	A signal/noise analysis of quasi-static MR elastography. IEEE Transactions on Medical Imaging, 2001, 20, 1183-1187.	8.9	6
52	Study on self-diffusion in water, alcohols and hydrogen fluoride by the statistical associating fluid theory. Fluid Phase Equilibria, 2001, 179, 165-179.	2.5	30
53	Pulse Radiolysis Study of Absorption Spectra of Ag0 and Ag2+ in Water from Room Temperature up to 380 Â°C. Journal of Physical Chemistry A, 2002, 106, 3123-3127.	2.5	43
54	Viscosity and stress autocorrelation function in supercooled water: a molecular dynamics study. Molecular Physics, 2002, 100, 2617-2627.	1.7	34

#	Article	IF	Citations
55	The pressure dependence of self-diffusion and spinâ€“lattice relaxation in cold and supercooled H2O and D2O. Physical Chemistry Chemical Physics, 2002, 4, 1581-1586.	2.8	21
56	Temperature dependence of ketyl radical in aqueous benzophenone solutions up to 400â€‰Â°C: A pulse radiolysis study. Physical Chemistry Chemical Physics, 2002, 4, 3980-3988.	2.8	21
57	Isotope effects and the thermal offset effect for diffusion and viscosity coefficients of liquid water. Physical Chemistry Chemical Physics, 2002, 4, 5841-5845.	2.8	15
58	Simultaneous diffusion MRI measurements from multiple perfused rat hippocampal slices. Magnetic Resonance in Medicine, 2002, 48, 565-569.	3.0	17
59	Water diffusion measurements in perfused human hippocampal slices undergoing tonicity changes. Magnetic Resonance in Medicine, 2003, 49, 856-863.	3.0	28
60	Diffusion Magnetic Resonance Imaging Study of a Rat Hippocampal Slice Model for Acute Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1461-1470.	4.3	14
61	Mass transfer coefficients from pendant water drop measurements in compressed carbon dioxide. Journal of Supercritical Fluids, 2004, 29, 237-249.	3.2	4
62	3D DT-MRI using a reduced-FOV approach and saturation pulses. Magnetic Resonance in Medicine, 2004, 51, 853-857.	3.0	10
63	Cold and thermal neutron scattering in liquid water: cross-section model and dynamics of water molecules. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 534, 531-543.	1.6	13
64	Pressure response of Raman spectra of water and its implication to the change in hydrogen bond interaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2423-2427.	3.9	36
65	Selective averaging for the diffusion tensor measurement. Magnetic Resonance Imaging, 2005, 23, 585-590.	1.8	6
66	Effects of high pressure in liquid chromatography. Journal of Chromatography A, 2005, 1090, 16-38.	3.7	179
67	Hydroxyl Radical in Aqueous Solution:Â Computer Simulation. Journal of Physical Chemistry B, 2005, 109, 4123-4128.	2.6	36
68	A new high-temperature multinuclear-magnetic-resonance probe and the self-diffusion of light and heavy water in sub- and supercritical conditions. Journal of Chemical Physics, 2005, 123, 164506.	3.0	77
69	Structural insights from high-resolution diffusion tensor imaging and tractography of the isolated rat hippocampus. NeuroImage, 2006, 32, 1499-1509.	4.2	69
70	Speciation of the Curium(III) Ion in Aqueous Solution:Â A Combined Study by Quantum Chemistry and Molecular Dynamics Simulation. Inorganic Chemistry, 2006, 45, 5291-5301.	4.0	57
71	Supercritical water oxidation of o-dichlorobenzene: degradation studies and simulation insights. Journal of Supercritical Fluids, 2006, 37, 94-101.	3.2	32
72	The Use of1H NMR Microscopy to Study Proton-Exchange Membrane Fuel Cells. ChemPhysChem, 2006, 7, 67-75.	2.1	69

#	Article	IF	Citations
73	Spatial hydration structures and dynamics of phenol in sub- and supercritical water. Journal of Chemical Physics, 2006, 124, 024507.	3.0	28
74	Water activity and mobility in solutions of glycerol and small molecular weight sugars: Implication for cryo- and lyopreservation. Journal of Applied Physics, 2006, 100, 074702.	2.5	104
75	Perturbation of water structure due to monovalent ions in solution. Physical Chemistry Chemical Physics, 2007, 9, 2959.	2.8	303
76	Permselectivity and Conductivity of Membranes Based on Sulfonated Naphthalenic Copolyimides. Journal of Physical Chemistry B, 2007, 111, 13694-13702.	2.6	24
77	A new reactive potential for the molecular dynamics simulation of liquid water. Chemical Physics Letters, 2007, 448, 138-143.	2.6	35
78	On predicting self-diffusion coefficients from viscosity in gases and liquids. Chemical Engineering Science, 2007, 62, 6499-6515.	3.8	31
79	Use of hydrogenâ€“deuterium exchange for contrast in 1H NMR microscopy investigations of an operating PEM fuel cell. Journal of Power Sources, 2007, 173, 86-95.	7.8	44
80	Modelling advection and diffusion of water isotopologues in leaves. Plant, Cell and Environment, 2007, 30, 892-909.	5.7	117
81	On predicting self-diffusion coefficients in fluids. Fluid Phase Equilibria, 2008, 269, 80-92.	2.5	21
82	Isotopic fractionation by diffusion in groundwater. Water Resources Research, 2008, 44, .	4.2	57
83	Effect of Pressure on the Transport Properties of Ionic Liquids: 1-Alkyl-3-methylimidazolium Salts. Journal of Physical Chemistry B, 2008, 112, 9830-9840.	2.6	78
84	Synthesis of Functional Nanoparticles Using Supercritical Fluids. Journal of the Vacuum Society of Japan, 2009, 52, 550-556.	0.3	1
85	Quasielastic neutron scattering investigation of motion of water molecules in n-propyl alcohol-water mixture. Journal of Chemical Physics, 2009, 130, 074503.	3.0	11
86	Aldehyde fixative solutions alter the water relaxation and diffusion properties of nervous tissue. Magnetic Resonance in Medicine, 2009, 62, 26-34.	3.0	266
87	Electrical Conductance of Hydrogen Chloride in Oxygen-18 Water at 298.15 K. Journal of Chemical & Engineering Data, 2009, 54, 1625-1627.	1.9	0
89	Viscosity of Water + tert-Butyl Alcohol (2-Methyl-2-propanol) Mixtures at Low Temperatures and High Pressure. Journal of Chemical & Engineering Data, 2009, 54, 581-588.	1.9	11
90	The fractional Stokesâ€“Einstein equation: Application to Lennard-Jones, molecular, and ionic liquids. Journal of Chemical Physics, 2009, 131, 054503.	3.0	133
91	Macromolecular hydration compared with preferential hydration and their role on macromolecule-osmolyte coupled diffusion. Physical Chemistry Chemical Physics, 2009, 11, 8923.	2.8	10

#	Article	IF	Citations
92	Communications: The fractional Stokesâ€“Einstein equation: Application to water. Journal of Chemical Physics, 2010, 132, 231103.	3.0	23
93	Scaled Polynomial Expression for Self-Diffusion Coefficients for Water, Benzene, and Cyclohexane over a Wide Range of Temperatures and Densities. Journal of Chemical & Engineering Data, 2010, 55, 2815-2823.	1.9	19
94	Role of Water in Molecular Docking Simulations of Cytochrome P450 2D6. Journal of Chemical Information and Modeling, 2010, 50, 146-154.	5.4	66
95	Prediction of self-diffusion coefficient and shear viscosity of water and its binary mixtures with methanol and ethanol by molecular simulation. Journal of Chemical Physics, 2011, 134, 074508.	3.0	182
96	Van der Waals effects in ab initio water at ambient and supercritical conditions. Journal of Chemical Physics, 2011, 135, 154503.	3.0	138
97	6 Materials, Proton Conductivity and Electrocatalysis in High-Temperature PEM Fuel Cells. Modern Aspects of Electrochemistry, 2011, , 301-368.	0.2	4
98	Structural dynamics of supercooled water from quasielastic neutron scattering and molecular simulations. Journal of Chemical Physics, 2011, 134, 144508.	3.0	162
99	Results for diffusionâ€weighted imaging with a fourthâ€channel gradient insert. Magnetic Resonance in Medicine, 2011, 66, 1798-1808.	3.0	6
100	An extended formula of site-site Smoluchowski-Vlasov equation for electrolyte solution and infinitely dilute solution. Journal of Chemical Physics, 2012, 137, 034506.	3.0	4
101	Molecular dynamics simulation of the effect of bond flexibility on the transport properties of water. Journal of Chemical Physics, 2012, 137, 104512.	3.0	57
102	Self-crosslinked anion exchange membranes by bromination of benzylmethyl-containing poly(sulfone)s for direct methanol fuel cells. International Journal of Hydrogen Energy, 2012, 37, 11383-11393.	7.1	41
103	A theory for time-dependent solvation structure near solid-liquid interface. Journal of Chemical Physics, 2012, 136, 244502.	3.0	5
104	Protein Diffusiophoresis and Salt Osmotic Diffusion in Aqueous Solutions. Journal of Physical Chemistry B, 2012, 116, 12694-12705.	2.6	32
105	Electrochemical performance of membranes based on hydrogenated polynorbornenes functionalized with imide side groups containing sulfonated fluorinated moieties. Journal of Membrane Science, 2012, 403-404, 121-128.	8.2	11
106	A viable isolated tissue system: A tool for detailed MR measurements and controlled perturbation in physiologically stable tissue. Magnetic Resonance in Medicine, 2013, 69, 1603-1610.	3.0	16
107	Size Effect on Nucleation Rate for Homogeneous Crystallization of Nanoscale Water Film. Journal of Physical Chemistry B, 2013, 117, 10241-10249.	2.6	21
108	Translational and Rotational Diffusion in Water in the Gigapascal Range. Physical Review Letters, 2013, 111, 185901.	7.8	66
109	Molecular simulation of surface reorganization and wetting in crystalline cellulose I and II. Cellulose, 2013, 20, 25-42.	4.9	43

#	Article	IF	Citations
110	Structure and Transport Anomalies in Soft Colloids. Physical Review Letters, 2013, 110, 148302.	7.8	24
111	Development of three-dimensional site-site Smoluchowski-Vlasov equation and application to electrolyte solutions. Journal of Chemical Physics, 2014, 140, 244110.	3.0	11
112	Universal tight binding model for chemical reactions in solution and at surfaces. II. Water. Journal of Chemical Physics, 2014, 141, 044504.	3.0	5
113	Ab Initio H₂O in Realistic Hydrophilic Confinement. ChemPhysChem, 2014, 15, 3955-3962.	2.1	21
114	Proton NMR relaxation study of molecular dynamics of chromonic liquid crystal Edicol Sunset Yellow. Liquid Crystals, 2014, 41, 1080-1089.	2.2	7
115	On estimating self-diffusivities by the extended corresponding states principle. Chemical Engineering Science, 2014, 108, 134-153.	3.8	1
116	Atomistic Molecular Dynamics Simulations of CO₂ Diffusivity in H₂O for a Wide Range of Temperatures and Pressures. Journal of Physical Chemistry B, 2014, 118, 5532-5541.	2.6	83
117	Temperature Dependence of the Density of Aqueous Alkali Halide Salt Solutions by Experiment and Molecular Simulation. Journal of Chemical & Engineering Data, 2014, 59, 3434-3448.	1.9	26
118	Differential alteration of basaltic lava flows and hyaloclastites in Icelandic hydrothermal systems. Geothermal Energy, 2015, 3, .	1.9	28
119	Impact of small changes in particle surface chemistry for unentangled polymer nanocomposites. Soft Matter, 2015, 11, 1634-1645.	2.7	10
120	Self-Diffusion in Molecular Fluids and Noble Gases: Available Data. Journal of Chemical & Engineering Data, 2015, 60, 2757-2817.	1.9	63
121	Classical nucleation theory of homogeneous freezing of water: thermodynamic and kinetic parameters. Physical Chemistry Chemical Physics, 2015, 17, 5514-5537.	2.8	151
122	Contamination of roadside soils by runoff pollutants: A numerical study. Transportation Geotechnics, 2015, 2, 1-9.	4.5	9
123	The Water Isotopic Version of the Land-Surface Model ORCHIDEE: Implementation, Evaluation, Sensitivity to Hydrological Parameters. Hydrology Current Research, 2016, 07, .	0.4	25
124	Assessing the accuracy of improved forceâ€matched water models derived from Ab initio molecular dynamics simulations. Journal of Computational Chemistry, 2016, 37, 1828-1838.	3.3	11
125	Solvent Dynamics in Solutions of PNIPAM in Water/Methanol Mixturesâ€"A Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry B, 2016, 120, 4679-4688.	2.6	38
126	Nuclear Quantum Effects in Water and Aqueous Systems: Experiment, Theory, and Current Challenges. Chemical Reviews, 2016, 116, 7529-7550.	47.7	439
127	Interactions of Polyethylenimines with Zwitterionic and Anionic Lipid Membranes. Langmuir, 2016, 32, 5004-5018.	3.5	37

#	Article	IF	Citations
128	Scaling the transport properties of molecular and ionic liquids. Journal of Molecular Liquids, 2016, 222, 520-534.	4.9	34
129	A systematic study on the intradiffusion and structure of N,N-dimethylformamideâ€“water mixtures: by experiment and molecular dynamics simulation. RSC Advances, 2016, 6, 85603-85611.	3.6	15
130	Comparison of hydraulic and chemical methods for determining hydraulic conductivity and leakage rates in argillaceous aquitards. Journal of Hydrology, 2016, 532, 102-121.	5.4	22
131	A monte carlo study of restricted diffusion: Implications for diffusion MRI of prostate cancer. Magnetic Resonance in Medicine, 2017, 77, 1671-1677.	3.0	13
132	Structural deformation phenomenon of synthesized poly(isosorbide-1,4-cyclohexanedicarboxylate) in hot water. RSC Advances, 2017, 7, 6315-6322.	3.6	11
133	Effect of the solvation state of electron in dissociative electron attachment reaction in aqueous solutions. Physical Chemistry Chemical Physics, 2017, 19, 23068-23077.	2.8	10
134	Understanding Translationalâ€“Rotational Coupling in Liquid Water through Changes in Mass Distribution. Journal of Physical Chemistry B, 2017, 121, 11344-11355.	2.6	4
135	A model describing diffusion in prostate cancer. Magnetic Resonance in Medicine, 2017, 78, 316-326.	3.0	25
136	Preferential solvation, ion pairing, and dynamics of concentrated aqueous solutions of divalent metal nitrate salts. Journal of Chemical Physics, 2017, 147, 244503.	3.0	22
137	Expanding the calculation of activation volumes: Self-diffusion in liquid water. Journal of Chemical Physics, 2018, 148, 134105.	3.0	11
138	On the molecular origin of the cooperative coil-to-globule transition of poly(N-isopropylacrylamide) in water. Physical Chemistry Chemical Physics, 2018, 20, 9997-10010.	2.8	97
139	The gelation influence on diffusion and conductivity enhancement effect in renewable ionic gels based on a LMWG. Physical Chemistry Chemical Physics, 2018, 20, 5803-5817.	2.8	15
140	Pore-scale study of thermal effects on ion diffusion in clay with inhomogeneous surface charge. Journal of Colloid and Interface Science, 2018, 514, 443-451.	9.4	14
141	Analysis of the influence of simulation parameters on biomolecule-linked water networks. Journal of Molecular Graphics and Modelling, 2018, 82, 117-128.	2.4	2
142	Concerning the determination and predictive correlation of diffusion coefficients in supercritical fluids and their mixtures. Journal of Supercritical Fluids, 2018, 134, 28-32.	3.2	12
143	Chloroplast-Inspired Artificial Photosynthetic Capsules for Efficient and Sustainable Enzymatic Hydrogenation. ACS Sustainable Chemistry and Engineering, 2018, 6, 17114-17123.	6.7	19
144	Estimation of effective porosity in large-scale groundwater models by combining particle tracking, auto-calibration and ¹⁴C dating. Hydrology and Earth System Sciences, 2018, 22, 4843-4865.	4.9	12
145	Water desalination using graphene nanopores: influence of the water models used in simulations. Physical Chemistry Chemical Physics, 2018, 20, 16005-16011.	2.8	36

#	Article	IF	Citations
146	Trehalose in Water Revisited. Journal of Physical Chemistry B, 2018, 122, 7365-7374.	2.6	26
147	Macromolecule Diffusiophoresis Induced by Concentration Gradients of Aqueous Osmolytes. Langmuir, 2018, 34, 9525-9531.	3.5	16
148	Rotational and translational dynamics of the SPC/E water model. Journal of Molecular Liquids, 2019, 275, 895-908.	4.9	22
149	Patterns and controls of disequilibrium isotope effects in speleothems: Insights from an isotope-enabled diffusion-reaction model and implications for quantitative thermometry. Geochimica Et Cosmochimica Acta, 2019, 267, 196-226.	3.9	45
150	Hydrogel Paint. Advanced Materials, 2019, 31, e1903062.	21.0	146
151	Molecular dynamics insight into the behaviour of 5-nonylsalicylaldoxime and its complex with Cu(II) in different diluent/water systems. Journal of Molecular Liquids, 2019, 291, 111350.	4.9	0
152	A rate-based dynamic model of multicomponent distillation column for 18O isotope separation. Separation and Purification Technology, 2019, 228, 115745.	7.9	4
153	Tests of the Stokesâ€“Einstein Relation through the Shear Viscosity Activation Energy of Water. Journal of Physical Chemistry B, 2019, 123, 5857-5865.	2.6	13
154	Evaluation test of the most popular models of methanol using selected thermodynamic, dynamic and structural properties. Journal of Molecular Liquids, 2019, 296, 111914.	4.9	6
155	A Mechanistic Analysis of Possible Blood Transfusion Failure to Increase Circulatory Oxygen Delivery in Anemic Patients. Annals of Biomedical Engineering, 2019, 47, 1094-1105.	2.5	9
156	Formalin tissue fixation biases myelinâ€sensitive MRI. Magnetic Resonance in Medicine, 2019, 82, 1504-1517.	3.0	28
157	Is water one liquid or two?. Journal of Chemical Physics, 2019, 150, 234503.	3.0	38
158	In Vivo Water Dynamics in Shewanella oneidensis Bacteria at High Pressure. Scientific Reports, 2019, 9, 8716.	3.3	13
159	Activation Energies and Beyond. Journal of Physical Chemistry A, 2019, 123, 7185-7194.	2.5	68
160	Effects of Pressure and Temperature on the Atomic Fluctuations of Dihydrofolate Reductase from a Psychropiezophile and a Mesophile. International Journal of Molecular Sciences, 2019, 20, 1452.	4.1	9
161	Estimation of heat transfer coefficient of water and ethylene glycol mixture in nanopipe via non-equilibrium coarse-grained molecular dynamics. Journal of Industrial and Engineering Chemistry, 2019, 77, 128-134.	5.8	2
162	Water Dynamics in a Concentrated Poly(N-isopropylacrylamide) Solution at Variable Pressure. Macromolecules, 2019, 52, 1942-1954.	4.8	18
163	Diffusion behaviour of water confined in deformed carbon nanotubes. Physica A: Statistical Mechanics and Its Applications, 2019, 517, 491-498.	2.6	20

#	Article	IF	Citations
164	Diffusion tensor imaging of articular cartilage using a navigated radial imaging spin-echo diffusion (RAISED) sequence. European Radiology, 2019, 29, 2598-2607.	4.5	13
165	Molecular Dynamics Simulation of CO2 Diffusion in a Carbonated Waterâ€“Decane System. Energies, 2020, 13, 6031.	3.1	3
166	Phase Boundary and Salt Partitioning in Coacervate Complexes Formed between Poly(acrylic acid) and Poly(N,N-dimethylaminoethyl methacrylate) from Detailed Atomistic Simulations Combined with Free Energy Perturbation and Thermodynamic Integration Calculations. Macromolecules, 2020, 53, 7618-7634.	4.8	7
167	Understanding how water models affect the anomalous pressure dependence of their diffusion coefficients. Journal of Chemical Physics, 2020, 153, 104510.	3.0	10
168	The coarse-grained models of poly(ethylene oxide) and poly(propylene oxide) homopolymers and poloxamers in big multipole water (BMW) and MARTINI frameworks. Physical Chemistry Chemical Physics, 2020, 22, 15976-15985.	2.8	10
169	Effect of Water on Molecular and Transport Phenomena Behaviors of [Bmim][Ac]/Water/CO₂, Using Molecular Dynamics Strategy. Journal of Physical Chemistry B, 2020, 124, 7368-7378.	2.6	4
170	Dynamical Model for the Counteracting Effects of TrimethylamineN-Oxide on Urea in Aqueous Solutions under Pressure. Journal of Physical Chemistry B, 2020, 124, 1978-1986.	2.6	11
171	Water diffusion in rough carbon nanotubes. Journal of Chemical Physics, 2020, 152, 024708.	3.0	23
172	Ice-Crystal Nucleation in Water: Thermodynamic Driving Force and Surface Tension. Part I: Theoretical Foundation. Entropy, 2020, 22, 50.	2.2	6
173	Thermally induced diffusion of chemicals under steady-state heat transfer in saturated porous media. International Journal of Heat and Mass Transfer, 2020, 153, 119664.	4.8	30
174	Dielectric response of light, heavy and heavy-oxygen water: isotope effects on the hydrogen-bonding network's collective relaxation dynamics. Physical Chemistry Chemical Physics, 2021, 23, 5467-5473.	2.8	11
175	Interpolation and Averaging of Diffusion MRI Multi-Compartment Models. IEEE Transactions on Medical Imaging, 2021, 40, 916-927.	8.9	0
176	Examining the Role of Different Molecular Interactions on Activation Energies and Activation Volumes in Liquid Water. Journal of Chemical Theory and Computation, 2021, 17, 2659-2671.	5.3	11
177	Collective contributions to self-diffusion in liquids. Physics-Uspekhi, 2021, 64, 157-174.	2.2	3
178	Investigating the Accuracy of Water Models through the Van Hove Correlation Function. Journal of Chemical Theory and Computation, 2021, 17, 5992-6005.	5.3	9
179	Solvation dynamics in electronically polarizable solvents: Theoretical treatment using solvent-polarizable three-dimensional reference interaction-site model theory combined with time-dependent density functional theory. Journal of Chemical Physics, 2021, 154, 044504.	3.0	4
180	The Estimation of Free-Water Corrected Diffusion Tensors. Mathematics and Visualization, 2014, , 249-270.	0.6	6
181	The properties of hydrogen bonded liquids studied by high pressure NMR. , 1991, , 333-356.		2

#	Article	IF	Citations
182	Diffusion Spectroscopy in Living Systems. , 1994, , 185-198.		25
183	Examining the Hofmeister Series through Activation Energies: Water Diffusion in Aqueous Alkali-Halide Solutions. Journal of Physical Chemistry B, 2021, 125, 350-359.	2.6	11
185	Hydrates associated with fluid flow above salt diapirs (Site 996). , 0, , .		8
187	Triple Oxygen Isotopic Compositions of Ocean Water from the Mariana Trench. ACS Earth and Space Chemistry, 2021, 5, 3087-3096.	2.7	1
188	Effects of Pressure and Temperature. Studies in Physical and Theoretical Chemistry, 1992, , 195-239.	0.0	0
189	Self-diffusion coefficient of water. , 2017, , 498-523.		0
191	Current Problems in the Quasi-elastic Incoherent Neutron Scattering and the Collective Drift of Molecules. Springer Proceedings in Physics, 2019, , 41-72.	0.2	0
192	A Classical Molecular Dynamics Study of the Mg²⁺ Coordination in Todorokite. Journal of the Mineralogical Society of Korea, 2019, 32, 151-162.	0.2	0
193	Quantifying the buffering of oceanic oxygen isotopes at ancient midocean ridges. Solid Earth, 2020, 11, 1475-1488.	2.8	5
194	Molecular dynamics of DNA-binding protein and its 2D-crystals. Journal of Physics: Conference Series, 2021, 2056, 012016.	0.4	3
195	Using Activation Energies to Elucidate Mechanisms of Water Dynamics. Journal of Physical Chemistry A, 2021, 125, 9941-9952.	2.5	9
196	A new single equation of state to describe the dynamic viscosity and self-diffusion coefficient for all fluid phases of water from 200 to 1800â€‰K based on a new original microscopic model. Physics of Fluids, 2021, 33, 117112.	4.0	5
197	A Singular Behavior at the Electrolytes Solution Surfaces: Experimental and Simulation Investigation over an Extended Range of Temperature. Fluid Phase Equilibria, 2021, , 113347.	2.5	2
199	Water Mixing Approach (WMA) for reactive transport modeling. Advances in Water Resources, 2022, 161, 104131.	3.8	4
200	Vibrational relaxation of carbon dioxide in water. Journal of Chemical Physics, 2022, 156, 094505.	3.0	6
201	Sequence Modulates Polypeptoid Hydration Water Structure and Dynamics. Biomacromolecules, 2022, 23, 1745-1756.	5.4	11
202	Evidence of a liquidâ€“liquid phase transition in H$$_2$$O and D$$_2$$O from path-integral molecular dynamics simulations. Scientific Reports, 2022, 12, 6004.	3.3	10
203	Alternative expression for Boltzmann temperature of dissipative-particle-dynamics particles. Numerical Heat Transfer; Part A: Applications, 0, , 1-17.	2.1	0

#	Article	IF	Citations
204	Interâ€individual variation in mitochondrial phosphorylation efficiency predicts growth rates in ectotherms at high temperatures. FASEB Journal, 2022, 36, e22333.	0.5	1
205	Coupled model for consolidation and organic contaminant transport in GMB/CCL composite liner under non-isothermal distribution condition. Computers and Geotechnics, 2022, 150, 104893.	4.7	5
206	Modeling Mixing in Stratified Heterogeneous Media: The Role of Water Velocity Discretization in Phase Space Formulation. Transport in Porous Media, 2023, 146, 395-412.	2.6	2
207	All-Atom Molecular Dynamics of Pure Waterâ€"Methane Gas Hydrate Systems under Pre-Nucleation Conditions: A Direct Comparison between Experiments and Simulations of Transport Properties for the Tip4p/Ice Water Model. Molecules, 2022, 27, 5019.	3.8	8
208	Adsorption process and mechanisms of AEO-3/dodecane mixed collector on low-rank coal surface driven by water flow: A non-equilibrium molecular dynamics simulation study. Journal of Molecular Liquids, 2022, 364, 119993.	4.9	4
209	The quantum mean square displacement of thermalized CO on Cu(100) in the short time approximation. Physical Chemistry Chemical Physics, 2022, 24, 26519-26528.	2.8	1
210	Electronic fluctuation difference between trimethylamine N-oxide and tert-butyl alcohol in water. Scientific Reports, 2022, 12, .	3.3	1
211	Mateverse, the Future Materials Science Computation Platform Based on Metaverse. Journal of Physical Chemistry Letters, 2023, 14, 148-157.	4.6	4
212	Molecular dynamics predictions of transport properties for carbon dioxide hydrates under pre-nucleation conditions using TIP4P/Ice water and EPM2, TraPPE, and Zhang carbon dioxide potentials. Journal of Molecular Liquids, 2023, 379, 121674.	4.9	4
213	Heavy metal contaminants transport in a composite liner under the non-isothermal condition. Geosynthetics International, 0, , 1-41.	2.9	0
214	Coupled model for oneâ€dimensional nonlinear consolidation and organic contaminant transport in a tripleâ€layer composite liner considering the nonisothermal distribution condition. International Journal for Numerical and Analytical Methods in Geomechanics, 2023, 47, 1772-1801.	3.3	1
215	A Maxwell relation for dynamical timescales with application to the pressure and temperature dependence of water self-diffusion and shear viscosity. Physical Chemistry Chemical Physics, 2023, 25, 12820-12832.	2.8	0
216	Water Diffusion in Carbon Nanotubes for Rigid and Flexible Models. Journal of Physical Chemistry C, 2023, 127, 9769-9778.	3.1	6
217	Imaging local diffusion in microstructures using NV-based pulsed field gradient NMR. Science Advances, 2023, 9, .	10.3	3
218	Electrochemical impedance spectroscopy of PEM fuel cells at low hydrogen partial pressures: efficient cell tests for mass production. , 2024, 2, 132-140.		0
219	Viscosity and Stokes-Einstein relation in deeply supercooled water under pressure. Journal of Chemical Physics, 2023, 159, .	3.0	0
220	A Falling Body High-Pressure Viscometer. International Journal of Thermophysics, 2023, 44, .	2.1	0
221	Evaluation of the Applicability of Voltammetric Modes in Scanning Electrochemical Microscopy for In Situ Corrosion Characterisation of Copper-Based Materials. Metals, 2023, 13, 1965.	2.3	0

#	Article	IF	Citations
223	Adsorption Efficiency of Carbon Materials for the Removal of Organic Pollutants: DDT from Aqueous Solution. Journal of Physical Chemistry B, 0, , .	2.6	0
224	Physical and Electrochemical Characterization of Aluminum Electrodes during Electrocoagulation. ACS ES&T Water, 2024, 4, 44-56.	4.6	0
225	Aggregation and Capacity Limiting Effects in Anthraquinone-Based Flow Battery Negolytes. Journal of the Electrochemical Society, 2024, 171, 020501.	2.9	0
226	Accuracy of TIP4P/2005 and SPC/Fw Water Models. Journal of Physical Chemistry B, 2024, 128, 1091-1097.	2.6	0
227	How Chromophore Labels Shape the Structure and Dynamics of a Peptide Hydrogel. Biomacromolecules, 2024, 25, 1262-1273.	5.4	0