

Douglas J Tobias

List of Publications by Citations

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176
papers

18,590
citations

59
h-index

135
g-index

188
ext. papers

20,596
ext. citations

5.8
avg, IF

6.69
L-index

#	Paper	IF	Citations
176	Constant pressure molecular dynamics algorithms. <i>Journal of Chemical Physics</i> , 1994 , 101, 4177-4189	3.9	3338
175	Update of the CHARMM all-atom additive force field for lipids: validation on six lipid types. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7830-43	3.4	2654
174	Explicit reversible integrators for extended systems dynamics. <i>Molecular Physics</i> , 1996 , 87, 1117-1157	1.7	1296
173	Specific ion effects at the air/water interface. <i>Chemical Reviews</i> , 2006 , 106, 1259-81	68.1	1093
172	Ions at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6361-6373	3.4	663
171	Molecular Structure of Salt Solutions: A New View of the Interface with Implications for Heterogeneous Atmospheric Chemistry. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10468-10472	3.4	586
170	Unified molecular picture of the surfaces of aqueous acid, base, and salt solutions. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7617-23	3.4	374
169	The dynamics of protein hydration water: a quantitative comparison of molecular dynamics simulations and neutron-scattering experiments. <i>Biophysical Journal</i> , 2000 , 79, 3244-57	2.9	275
168	Chemistry. Getting specific about specific ion effects. <i>Science</i> , 2008 , 319, 1197-8	33.3	271
167	Interface connections of a transmembrane voltage sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15059-64	11.5	192
166	Propensity of soft ions for the air/water interface. <i>Current Opinion in Colloid and Interface Science</i> , 2004 , 9, 67-73	7.6	188
165	Constant-pressure molecular dynamics investigation of cholesterol effects in a dipalmitoylphosphatidylcholine bilayer. <i>Biophysical Journal</i> , 1998 , 75, 2147-56	2.9	178
164	Air-liquid interfaces of aqueous solutions containing ammonium and sulfate: spectroscopic and molecular dynamics studies. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8861-72	3.4	175
163	Atomic-scale molecular dynamics simulations of lipid membranes. <i>Current Opinion in Colloid and Interface Science</i> , 1997 , 2, 15-26	7.6	169
162	Translational diffusion of hydration water correlates with functional motions in folded and intrinsically disordered proteins. <i>Nature Communications</i> , 2015 , 6, 6490	17.4	166
161	Structure and hydration of membranes embedded with voltage-sensing domains. <i>Nature</i> , 2009 , 462, 473-9	50.4	166
160	Watching the low-frequency motions in aqueous salt solutions: the terahertz vibrational signatures of hydrated ions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1030-5	16.4	160

159	Coincidence of dynamical transitions in a soluble protein and its hydration water: direct measurements by neutron scattering and MD simulations. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4586-7	16.4	156
158	Experimental validation of molecular dynamics simulations of lipid bilayers: a new approach. <i>Biophysical Journal</i> , 2005 , 88, 805-17	2.9	144
157	Explicit reversible integrators for extended systems dynamics		142
156	Surface solvation of halogen anions in water clusters: An ab initio molecular dynamics study of the Cl(H ₂ O) ₆ complex. <i>Journal of Chemical Physics</i> , 2001 , 114, 7036-7044	3.9	136
155	Simulation and theory of ions at atmospherically relevant aqueous liquid-air interfaces. <i>Annual Review of Physical Chemistry</i> , 2013 , 64, 339-59	15.7	131
154	Chloride Anion on Aqueous Clusters, at the Air/Water Interface, and in Liquid Water: Solvent Effects on Cl-Polarizability. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 379-383	2.8	131
153	Polarizability of the nitrate anion and its solvation at the air/water interface. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 3752	3.6	119
152	Interaction of Gas-Phase Ozone at 296 K with Unsaturated Self-Assembled Monolayers: A New Look at an Old System. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 10473-10485	2.8	116
151	Hydroxyl radical at the air-water interface. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16308-9	16.4	114
150	Molecular dynamics simulations of atmospheric oxidants at the air-water interface: solvation and accommodation of OH and O ₃ . <i>Journal of Physical Chemistry B</i> , 2005 , 109, 15876-92	3.4	109
149	Surface Effects on Aqueous Ionic Solvation: A Molecular Dynamics Simulation Study of NaCl at the Air/Water Interface from Infinite Dilution to Saturation. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 7702-7706	3.4	109
148	The Effect of an Organic Surfactant on the Liquid/Vapor Interface of an Electrolyte Solution. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13497-13509	3.8	108
147	Structure and dynamics of the aqueous liquid-vapor interface: a comprehensive particle-based simulation study. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3738-46	3.4	106
146	Solvation of magnesium dication: molecular dynamics simulation and vibrational spectroscopic study of magnesium chloride in aqueous solutions. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 5141-8	2.8	104
145	Hydroxide anion at the air/water interface. <i>Chemical Physics Letters</i> , 2009 , 481, 2-8	2.5	103
144	Ion spatial distributions at the liquid-vapor interface of aqueous potassium fluoride solutions. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4778-84	3.6	98
143	Structure and vibrational spectroscopy of salt water/air interfaces: predictions from classical molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7934-40	3.4	96
142	Ion specificity at the peptide bond: molecular dynamics simulations of N-methylacetamide in aqueous salt solutions. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1213-20	3.4	95

141	Arginine in membranes: the connection between molecular dynamics simulations and translocon-mediated insertion experiments. <i>Journal of Membrane Biology</i> , 2011 , 239, 35-48	2.3	94
140	Spatial dependence of protein-water collective hydrogen-bond dynamics. <i>Physical Review Letters</i> , 2013 , 111, 218101	7.4	93
139	Polarizability and aqueous solvation of the sulfate dianion. <i>Chemical Physics Letters</i> , 2003 , 367, 704-710	2.5	90
138	Allosteric mechanism of water-channel gating by Ca ²⁺ -calmodulin. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1085-92	17.6	88
137	Impact, Trapping, and Accommodation of Hydroxyl Radical and Ozone at Aqueous Salt Aerosol Surfaces. A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12690-12699	3.4	84
136	Molecular Dynamics Simulations of a Calcium Carbonate/Calcium Sulfonate Reverse Micelle. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6637-6648		84
135	Molecular dynamics simulations of the solution-air interface of aqueous sodium nitrate. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 3091-8	2.8	81
134	Molecular dynamics with internal coordinate constraints. <i>Journal of Chemical Physics</i> , 1988 , 89, 5115-5127	9.0	81
133	Reverse turns in blocked dipeptides are intrinsically unstable in water. <i>Journal of Molecular Biology</i> , 1990 , 216, 783-96	6.5	79
132	A voltage-sensor water pore. <i>Biophysical Journal</i> , 2006 , 91, L90-2	2.9	78
131	Toward a unified picture of the water self-ions at the air-water interface: a density functional theory perspective. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8364-72	3.4	77
130	Thermodynamics of amide hydrogen bond formation in polar and apolar solvents. <i>Journal of Molecular Biology</i> , 1989 , 209, 817-20	6.5	76
129	Re-examining the properties of the aqueous vapor-liquid interface using dispersion corrected density functional theory. <i>Journal of Chemical Physics</i> , 2011 , 135, 124712	3.9	74
128	Insertion of short transmembrane helices by the Sec61 translocon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11588-93	11.5	72
127	Calculation of free energy surfaces using the methods of thermodynamic perturbation theory. <i>Chemical Physics Letters</i> , 1987 , 142, 472-476	2.5	69
126	Hydration water mobility is enhanced around tau amyloid fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6365-70	11.5	68
125	Does Nitric Acid Dissociate at the Aqueous Solution Surface?. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21183-21190	3.8	64
124	Uptake and Collision Dynamics of Gas Phase Ozone at Unsaturated Organic Interfaces. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5806-5814	2.8	63

123	Environmental Dependence of the Dynamics of Protein Hydration Water. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9740-9741	16.4	61
122	Reaction paths and free energy profiles for conformational transitions: An internal coordinate approach. <i>Journal of Chemical Physics</i> , 1991 , 95, 7612-7625	3.9	61
121	Electrochemical Surface Potential Due to Classical Point Charge Models Drives Anion Adsorption to the Air-Water Interface. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1565-70	6.4	60
120	Acyl-chain methyl distributions of liquid-ordered and -disordered membranes. <i>Biophysical Journal</i> , 2011 , 100, 1455-62	2.9	60
119	Molecular dynamics investigation of the surface/bulk equilibrium in an ethanol/water solution. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 559-563		60
118	Water wires in atomistic models of the Hv1 proton channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 286-93	3.8	58
117	Molecular biophysics of Orai store-operated Ca ²⁺ channels. <i>Biophysical Journal</i> , 2015 , 108, 237-46	2.9	57
116	The thermodynamics of solvophobic effects: A molecular-dynamics study of n-butane in carbon tetrachloride and water. <i>Journal of Chemical Physics</i> , 1990 , 92, 2582-2592	3.9	56
115	Separating instability from aggregation propensity in β -crystallin variants. <i>Biophysical Journal</i> , 2011 , 100, 498-506	2.9	55
114	Relation between surface tension and ion adsorption at the air-water interface: a molecular dynamics simulation study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7286-93	2.8	53
113	Effects of solvent damping on side chain and backbone contributions to the protein boson peak. <i>Journal of Chemical Physics</i> , 2001 , 115, 1607-1612	3.9	53
112	Ambient Pressure X-ray Photoelectron Spectroscopy and Molecular Dynamics Simulation Studies of Liquid/Vapor Interfaces of Aqueous NaCl, RbCl, and RbBr Solutions. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4545-4555	3.8	52
111	Accommodation coefficients for water vapor at the air/water interface. <i>Chemical Physics Letters</i> , 2004 , 393, 249-255	2.5	52
110	Experimental and theoretical characterization of adsorbed water on self-assembled monolayers: understanding the interaction of water with atmospherically relevant surfaces. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 2060-9	2.8	51
109	Enhanced surface photochemistry in chloride-nitrate ion mixtures. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5668-77	3.6	51
108	Surface organization of aqueous MgCl ₂ and application to atmospheric marine aerosol chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 6616-21	11.5	50
107	The low-temperature inflection observed in neutron scattering measurements of proteins is due to methyl rotation: direct evidence using isotope labeling and molecular dynamics simulations. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4990-1	16.4	50
106	Amplitudes and Frequencies of Protein Dynamics: Analysis of Discrepancies between Neutron Scattering and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10450-10451	16.4	50

105	Self-induced docking site of a deeply embedded peripheral membrane protein. <i>Biophysical Journal</i> , 2007 , 92, 517-24	2.9	49
104	On the Coupling between the Collective Dynamics of Proteins and Their Hydration Water. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1181-6	6.4	47
103	Investigation of finite system-size effects in molecular dynamics simulations of lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 24157-64	3.4	47
102	Proton-coupled dynamics in lactose permease. <i>Structure</i> , 2012 , 20, 1893-904	5.2	46
101	Molecular dynamics simulations of supported phospholipid/alkanethiol bilayers on a gold(111) surface. <i>Biophysical Journal</i> , 1999 , 77, 964-72	2.9	45
100	Terahertz absorption of dilute aqueous solutions. <i>Journal of Chemical Physics</i> , 2012 , 137, 235103	3.9	44
99	Nitrate ion photolysis in thin water films in the presence of bromide ions. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 5810-21	2.8	44
98	Structure of large nitrate-water clusters at ambient temperatures: simulations with effective fragment potentials and force fields with implications for atmospheric chemistry. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12805-14	2.8	44
97	Thermodynamics of iodide adsorption at the instantaneous air-water interface. <i>Journal of Chemical Physics</i> , 2013 , 138, 114709	3.9	43
96	Dissociation of strong acid revisited: X-ray photoelectron spectroscopy and molecular dynamics simulations of HNO ₃ in water. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 9445-51	3.4	42
95	Inertial suppression of protein dynamics in a binary glycerol-trehalose glass. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22953-6	3.4	42
94	Methyl group dynamics as a probe of the protein dynamical transition. <i>Journal of the American Chemical Society</i> , 2004 , 126, 15928-9	16.4	42
93	Orientation and Structure of Acetonitrile in Water at the Liquid-Vapor Interface: A Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17555-17563	3.8	42
92	Dynamics of SecY translocons with translocation-defective mutations. <i>Structure</i> , 2010 , 18, 847-57	5.2	41
91	Sensitivity of 2D IR spectra to peptide helicity: a concerted experimental and simulation study of an octapeptide. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12037-49	3.4	39
90	Stability of a model beta-sheet in water. <i>Journal of Molecular Biology</i> , 1992 , 227, 1244-52	6.5	39
89	The impact of clothing on ozone and squalene ozonolysis products in indoor environments. <i>Communications Chemistry</i> , 2019 , 2,	6.3	38
88	Microscopic wetting of mixed self-assembled monolayers: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4161-9	3.4	37

87	Molecular dynamics investigation of an ethanol-water solution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 117-122	3.3	36
86	Vector and parallel algorithms for the molecular dynamics simulation of macromolecules on shared-memory computers. <i>Journal of Computational Chemistry</i> , 1991 , 12, 1270-1277	3.5	36
85	Molecular dynamics simulations of a pulmonary surfactant protein B peptide in a lipid monolayer. <i>Biophysical Journal</i> , 2003 , 84, 2169-80	2.9	35
84	Anomalous behavior of water inside the SecY translocon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9016-21	11.5	34
83	Investigation of Interfacial and Bulk Dissociation of HBr, HCl, and HNO ₃ Using Density Functional Theory-Based Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29412-29420	3.8	33
82	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO ₂ . <i>Chemical Science</i> , 2019 , 10, 2906-2914	9.4	32
81	Coupling of retinal, protein, and water dynamics in squid rhodopsin. <i>Biophysical Journal</i> , 2010 , 99, 2200-2.9	7.9	31
80	Hygroscopic growth and deliquescence of NaCl nanoparticles mixed with surfactant SDS. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2435-49	3.4	31
79	Spectral signatures of the pentagonal water cluster in bacteriorhodopsin. <i>ChemPhysChem</i> , 2008 , 9, 2703-72	7.2	31
78	Specific cation effects at aqueous solution-vapor interfaces: Surfactant-like behavior of Li revealed by experiments and simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13363-13368	11.5	29
77	Down-state model of the voltage-sensing domain of a potassium channel. <i>Biophysical Journal</i> , 2010 , 98, 2857-66	2.9	29
76	Quantitative interpretation of molecular dynamics simulations for X-ray photoelectron spectroscopy of aqueous solutions. <i>Journal of Chemical Physics</i> , 2016 , 144, 154704	3.9	29
75	Hydration dynamics of purple membranes. <i>Faraday Discussions</i> , 2009 , 141, 99-116; discussion 175-207	3.6	28
74	Thermal Fluctuations of the Unusually Symmetric and Stable Superoxide Tetrahydrate Complex: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10969-10976	2.8	27
73	Conformational flexibility in free energy simulations. <i>Chemical Physics Letters</i> , 1989 , 156, 256-260	2.5	26
72	Hydration dynamics in a partially denatured ensemble of the globular protein human alpha-lactalbumin investigated with molecular dynamics simulations. <i>Biophysical Journal</i> , 2008 , 95, 5257-67	2.9	25
71	Assembly and Stability of Helical Membrane Proteins. <i>Soft Matter</i> , 2012 , 8, 7742-7752	3.6	24
70	Nitrate ion photochemistry at interfaces: a new mechanism for oxidation of alpha-pinene. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3063-71	3.6	24

69	Interleaflet mixing and coupling in liquid-disordered phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 354-62	3.8	23
68	Modelling consortium for chemistry of indoor environments (MOCCIE): integrating chemical processes from molecular to room scales. <i>Environmental Sciences: Processes and Impacts</i> , 2019 , 21, 1240-1254	4.3	22
67	Solvent-Shared Ion Pairs at the Air-Solution Interface of Magnesium Chloride and Sulfate Solutions Revealed by Sum Frequency Spectroscopy and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6450-6459	2.8	21
66	Microscopic origin of gating current fluctuations in a potassium channel voltage sensor. <i>Biophysical Journal</i> , 2012 , 102, L44-6	2.9	21
65	Effect of magnesium cation on the interfacial properties of aqueous salt solutions. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 8359-68	2.8	21
64	Ab initio molecular dynamics study of the solvated OHCl ⁻ complex: implications for the atmospheric oxidation of chloride anion to molecular chlorine. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 4644-50	2.8	21
63	Electronic Polarization and Hydration of the Dimethyl phosphate Anion: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5827-5832	3.4	21
62	Calmodulin Gates Aquaporin 0 Permeability through a Positively Charged Cytoplasmic Loop. <i>Journal of Biological Chemistry</i> , 2017 , 292, 185-195	5.4	20
61	Specific Anion Effects on Na Adsorption at the Aqueous Solution-Air Interface: MD Simulations, SESSA Calculations, and Photoelectron Spectroscopy Experiments. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 910-918	3.4	20
60	Structural plasticity in the topology of the membrane-interacting domain of HIV-1 gp41. <i>Biophysical Journal</i> , 2014 , 106, 610-20	2.9	20
59	The role of protein-solvent hydrogen bond dynamics in the structural relaxation of a protein in glycerol versus water. <i>European Biophysics Journal</i> , 2008 , 37, 701-9	1.9	19
58	A transporter converted into a sensor, a phototaxis signaling mutant of bacteriorhodopsin at 3.0 Å. <i>Journal of Molecular Biology</i> , 2012 , 415, 455-63	6.5	18
57	Increased hydrophobic surface exposure in the cataract-related G18V variant of human β -crystallin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 325-32	4	17
56	Coupling between the voltage-sensing and pore domains in a voltage-gated potassium channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1726-36	3.8	17
55	Dynamics of the internal water molecules in squid rhodopsin. <i>Biophysical Journal</i> , 2009 , 96, 2572-6	2.9	17
54	Multiscale Modeling of Human Skin Oil-Induced Indoor Air Chemistry: Combining Kinetic Models and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3836-3843	3.4	17
53	What Is the Driving Force behind the Adsorption of Hydrophobic Molecules on Hydrophilic Surfaces?. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 468-473	6.4	17
52	Interaction of water vapor with the surfaces of imidazolium-based ionic liquid nanoparticles and thin films. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 11255-65	3.4	16

51	Diffraction-based density restraints for membrane and membrane-peptide molecular dynamics simulations. <i>Biophysical Journal</i> , 2006 , 91, 3617-29	2.9	16
50	Characterization of sub-nanosecond dynamics of the molten globule state of β -lactalbumin using quasielastic neutron scattering and molecular dynamics simulations. <i>Chemical Physics</i> , 2003 , 292, 435-443	3.3	16
49	Transmembrane helices containing a charged arginine are thermodynamically stable. <i>European Biophysics Journal</i> , 2017 , 46, 627-637	1.9	15
48	Direct evidence of conformational changes associated with voltage gating in a voltage sensor protein by time-resolved X-ray/neutron interferometry. <i>Langmuir</i> , 2014 , 30, 4784-96	4	15
47	Structural dynamics of the S4 voltage-sensor helix in lipid bilayers lacking phosphate groups. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 8732-8	3.4	15
46	Experimental and Simulation Studies of Aquaporin 0 Water Permeability and Regulation. <i>Chemical Reviews</i> , 2019 , 119, 6015-6039	68.1	14
45	Refining Protein Penetration into the Lipid Bilayer Using Fluorescence Quenching and Molecular Dynamics Simulations: The Case of Diphtheria Toxin Translocation Domain. <i>Journal of Membrane Biology</i> , 2018 , 251, 379-391	2.3	14
44	Production of gas phase NO ₂ and halogens from the photolysis of thin water films containing nitrate, chloride and bromide ions at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 17636-46	3.6	14
43	Molecular Dynamics Simulations of a Powder Model of the Intrinsically Disordered Protein Tau. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12580-9	3.4	13
42	Validation of depth-dependent fluorescence quenching in membranes by molecular dynamics simulation of tryptophan octyl ester in POPC bilayer. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4770-8	3.4	13
41	Two transmembrane dimers of the bovine papillomavirus E5 oncoprotein clamp the PDGF β receptor in an active dimeric conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7262-E7271	11.5	13
40	Direct comparisons of experimental and calculated neutron structure factors of pure solvents as a method for force field validation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12941-4	3.4	13
39	Voltage-dependent structural models of the human Hv1 proton channel from long-timescale molecular dynamics simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13490-13498	11.5	12
38	Voltage Sensing in Membranes: From Macroscopic Currents to Molecular Motions. <i>Journal of Membrane Biology</i> , 2015 , 248, 419-30	2.3	12
37	Structural Relaxation Processes and Collective Dynamics of Water in Biomolecular Environments. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 480-486	3.4	12
36	Interactions of Cl ⁻ and OH radical in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8823-5	2.8	11
35	A simple protocol for identification of helical and mobile residues in membrane proteins. <i>Journal of Molecular Biology</i> , 1995 , 253, 391-5	6.5	11
34	Interactions of tyrosine in Leu-enkephalin at a membrane-water interface: an ultrafast two-dimensional infrared study combined with density functional calculations and molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1180-90	3.4	10

33	Molecular dynamics simulations of aqueous pullulan oligomers. <i>Biomacromolecules</i> , 2005 , 6, 1239-51	6.9	10
32	Molecular Mechanism of Aggregation of the Cataract-Related D-Crystallin W42R Variant from Multiscale Atomistic Simulations. <i>Biochemistry</i> , 2019 , 58, 3691-3699	3.2	9
31	"Bind and Crawl" Association Mechanism of Leishmania major Peroxidase and Cytochrome c Revealed by Brownian and Molecular Dynamics Simulations. <i>Biochemistry</i> , 2015 , 54, 7272-82	3.2	9
30	Electrostatic interactions and hydrogen bond dynamics in chloride pumping by halorhodopsin. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 1964-1972	4.6	8
29	D2O Water Interaction with Textured Carboxylic Acid-Terminated Monolayer Surfaces Characterized by Temperature-Programmed Desorption and Molecular Dynamics. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1570-1579	3.8	8
28	Multi-Conformation Monte Carlo: A Method for Introducing Flexibility in Efficient Simulations of Many-Protein Systems. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8115-26	3.4	8
27	Atomistic Modeling of Ion Conduction through the Voltage-Sensing Domain of the Shaker K Ion Channel. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3804-3812	3.4	7
26	Molecular Orientation at the Squalene/Air Interface from Sum Frequency Generation Spectroscopy and Atomistic Modeling. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3932-3941	3.4	7
25	Specific ion interactions with aromatic rings in aqueous solutions: Comparison of molecular dynamics simulations with a thermodynamic solute partitioning model and Raman spectroscopy. <i>Chemical Physics Letters</i> , 2015 , 638, 1-8	2.5	6
24	Interactions of gaseous HNO ₃ and water with individual and mixed alkyl self-assembled monolayers at room temperature. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2358-67	3.6	6
23	Simulated photoelectron intensities at the aqueous solution-air interface for flat and cylindrical (microjet) geometries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6330-6333	3.6	5
22	Cooperativity and allostery in aquaporin 0 regulation by Ca. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 988-996	3.8	5
21	Impact of Adsorbed Water on the Interaction of Limonene with Hydroxylated SiO ₂ : Implications of Hydrogen Bonding for Surfaces in Humid Environments. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10592-10599	2.8	5
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