

Douglas J Tobias

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5732383/douglas-j-tobias-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Adsorption of constitutional isomers of cyclic monoterpenes on hydroxylated silica surfaces. <i>Journal of Chemical Physics</i> , 2021 , 154, 124703	3.9	0
175	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
174	Heterogeneous Interactions of Prevalent Indoor Oxygenated Organic Compounds on Hydroxylated SiO Surfaces. <i>Environmental Science & Technology</i> , 2021 , 55, 6623-6630	10.3	2
173	HIFs: New arginine mimic inhibitors of the Hv1 channel with improved VSD-ligand interactions. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	2
172	A novel Hv1 inhibitor reveals a new mechanism of inhibition of a voltage-sensing domain. <i>Journal of General Physiology</i> , 2021 , 153,	3.4	2
171	Thermodynamics and Mechanism of the Membrane Permeation of Hv1 Channel Blockers. <i>Journal of Membrane Biology</i> , 2021 , 254, 5-16	2.3	1
170	Diffusivelike Motions in a Solvent-Free Protein-Polymer Hybrid. <i>Physical Review Letters</i> , 2021 , 126, 088102	10.2	4
169	Effects of Cardiolipin on the Conformational Dynamics of Membrane-Anchored Bcl-xL. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
168	Anomalous Diffusion of Peripheral Membrane Signaling Proteins from All-Atom Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 9990-9998	3.4	0
167	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
166	Impact of Adsorbed Water on the Interaction of Limonene with Hydroxylated SiO: Implications of Hydrogen Bonding for Surfaces in Humid Environments. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 10592-10599	2.8	5
165	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
164	Human B-crystallin discriminates between aggregation-prone and function-preserving variants of a client protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129502	4	5
163	Insights on small molecule binding to the Hv1 proton channel from free energy calculations with molecular dynamics simulations. <i>Scientific Reports</i> , 2020 , 10, 13587	4.9	2
162	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
161	Voltage-Dependent Profile Structures of a Kv-Channel via Time-Resolved Neutron Interferometry. <i>Biophysical Journal</i> , 2019 , 117, 751-766	2.9	2
160	A molecular picture of surface interactions of organic compounds on prevalent indoor surfaces: limonene adsorption on SiO. <i>Chemical Science</i> , 2019 , 10, 2906-2914	9.4	32

159	The impact of clothing on ozone and squalene ozonolysis products in indoor environments. <i>Communications Chemistry</i> , 2019 , 2,	6.3	38
158	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
157	Experimental and Simulation Studies of Aquaporin 0 Water Permeability and Regulation. <i>Chemical Reviews</i> , 2019 , 119, 6015-6039	68.1	14
156	Cooperativity and allostery in aquaporin 0 regulation by Ca. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019 , 1861, 988-996	3.8	5
155	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
154	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
153	Role of Conformational Flexibility in Monte Carlo Simulations of Many-Protein Systems. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1399-1408	6.4	2
152	Molecular Arrangement of a Mixture of Organosulfur Surfactants at the Aqueous Solution-Vapor Interface Studied by Photoelectron Intensity and Angular Distribution Measurements and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8160-8170	3.8	4
151	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
150	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
149	Preface: Special Topic on Ions in Water. <i>Journal of Chemical Physics</i> , 2018 , 148, 222501	3.9	0
148	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
147	Calmodulin Gates Aquaporin 0 Permeability through a Positively Charged Cytoplasmic Loop. <i>Journal of Biological Chemistry</i> , 2017 , 292, 185-195	5.4	20
146	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
145	Gating energetics of a voltage-dependent K channel pore domain. <i>Journal of Computational Chemistry</i> , 2017 , 38, 1472-1478	3.5	4
144	Transmembrane helices containing a charged arginine are thermodynamically stable. <i>European Biophysics Journal</i> , 2017 , 46, 627-637	1.9	15
143	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
142	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

141	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
140	Modeling Interprotein Interactions in Concentrated Solutions of Wild-Type and Cataract-Related Variants of D- and B-Crystallins. <i>Biophysical Journal</i> , 2016 , 110, 386a	2.9	
139	Interleaflet mixing and coupling in liquid-disordered phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 354-62	3.8	23
138	Increased hydrophobic surface exposure in the cataract-related G18V variant of human B-crystallin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 325-32	4	17
137	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
136	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
135	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
134	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
133	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
132	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
131	A comment on "pH and the surface tension of water" (J. K. Beattie, A. M. Djerdjev, A. Gray-Weale, N. Kallay, J. Lützenkirchen, T. Preočanin, A. Selmani, J. Colloid Interface Sci. 422 (2014) 54.). <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 593	9.3	4
130	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
129	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
128	Voltage Sensing in Membranes: From Macroscopic Currents to Molecular Motions. <i>Journal of Membrane Biology</i> , 2015 , 248, 419-30	2.3	12
127	"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
126	Molecular biophysics of Orai store-operated Ca ²⁺ channels. <i>Biophysical Journal</i> , 2015 , 108, 237-46	2.9	57
125	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
124	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

123	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
122	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
121	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
120	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
119	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
118	Spatial dependence of protein-water collective hydrogen-bond dynamics. <i>Physical Review Letters</i> , 2013 , 111, 218101	7.4	93
117	Thermodynamics of iodide adsorption at the instantaneous air-water interface. <i>Journal of Chemical Physics</i> , 2013 , 138, 114709	3.9	43
116	Allosteric mechanism of water-channel gating by Ca ²⁺ -calmodulin. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1085-92	17.6	88
115	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
114	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
113	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
112	Terahertz absorption of dilute aqueous solutions. <i>Journal of Chemical Physics</i> , 2012 , 137, 235103	3.9	44
111	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
110	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
109	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
108	Water wires in atomistic models of the Hv1 proton channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 286-93	3.8	58
107	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
106	Assembly and Stability of α -Helical Membrane Proteins. <i>Soft Matter</i> , 2012 , 8, 7742-7752	3.6	24

105	Microscopic origin of gating current fluctuations in a potassium channel voltage sensor. <i>Biophysical Journal</i> , 2012 , 102, L44-6	2.9	21
104	Proton-coupled dynamics in lactose permease. <i>Structure</i> , 2012 , 20, 1893-904	5.2	46
103	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
102	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
101	Separating instability from aggregation propensity in B-crystallin variants. <i>Biophysical Journal</i> , 2011 , 100, 498-506	2.9	55
100	Acyl-chain methyl distributions of liquid-ordered and -disordered membranes. <i>Biophysical Journal</i> , 2011 , 100, 1455-62	2.9	60
99	Hot and crowded: new insights into the dynamics of thermophilic enzymes from multiscale modeling. <i>Biophysical Journal</i> , 2011 , 101, 2553-4	2.9	
98	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
97	Does Nitric Acid Dissociate at the Aqueous Solution Surface?. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21183-21190	3.8	64
96	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
95	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
94	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
93	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
92	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
91	Down-state model of the voltage-sensing domain of a potassium channel. <i>Biophysical Journal</i> , 2010 , 98, 2857-66	2.9	29
90	Coupling of retinal, protein, and water dynamics in squid rhodopsin. <i>Biophysical Journal</i> , 2010 , 99, 2200-2.9		31
89	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
88	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

87	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
86	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
85	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
84	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
83	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
82	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
81	Dynamics of SecY translocons with translocation-defective mutations. <i>Structure</i> , 2010 , 18, 847-57	5.2	41
80	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
79	Structure and hydration of membranes embedded with voltage-sensing domains. <i>Nature</i> , 2009 , 462, 473-9	50.4	166
78	Hydroxide anion at the air-water interface. <i>Chemical Physics Letters</i> , 2009 , 481, 2-8	2.5	103
77	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
76	Interactions of Cl ⁻ and OH radical in aqueous solution. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 8823-5	2.8	11
75	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
74	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
73	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
72	Dynamics of the internal water molecules in squid rhodopsin. <i>Biophysical Journal</i> , 2009 , 96, 2572-6	2.9	17
71	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
70	Hydration dynamics of purple membranes. <i>Faraday Discussions</i> , 2009 , 141, 99-116; discussion 175-207	3.6	28

69	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
68	Enhanced surface photochemistry in chloride-nitrate ion mixtures. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5668-77	3.6	51
67	Chemistry. Getting specific about specific ion effects. <i>Science</i> , 2008 , 319, 1197-8	33.3	271
66	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
65	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
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	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
62	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
61	Spectral signatures of the pentagonal water cluster in bacteriorhodopsin. <i>ChemPhysChem</i> , 2008 , 9, 2703-7	3.2	31
60	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
59	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
58	Self-induced docking site of a deeply embedded peripheral membrane protein. <i>Biophysical Journal</i> , 2007 , 92, 517-24	2.9	49
57	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
56	Diffraction-based density restraints for membrane and membrane-peptide molecular dynamics simulations. <i>Biophysical Journal</i> , 2006 , 91, 3617-29	2.9	16
55	A voltage-sensor water pore. <i>Biophysical Journal</i> , 2006 , 91, L90-2	2.9	78
54	Specific ion effects at the air/water interface. <i>Chemical Reviews</i> , 2006 , 106, 1259-81	68.1	1093
53	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
52	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

51	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
50	Molecular dynamics simulations of aqueous pullulan oligomers. <i>Biomacromolecules</i> , 2005 , 6, 1239-51	6.9	10
49	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
48	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
47	Experimental validation of molecular dynamics simulations of lipid bilayers: a new approach. <i>Biophysical Journal</i> , 2005 , 88, 805-17	2.9	144
46	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
45	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
44	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
43	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
42	Accommodation coefficients for water vapor at the air/water interface. <i>Chemical Physics Letters</i> , 2004 , 393, 249-255	2.5	52
41	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
40	Hydroxyl radical at the air-water interface. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16308-9	16.4	114
39	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
38	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
37	Polarizability and aqueous solvation of the sulfate dianion. <i>Chemical Physics Letters</i> , 2003 , 367, 704-710	2.5	90
36	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	2.3	16
35	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
34	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

33	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
32	Protein Hydration Water. <i>Springer Series in Cluster Physics</i> , 2003 , 213-225		2
31	Ions at the Air/Water Interface. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6361-6373	3.4	663
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	Molecular dynamics simulations of supported phospholipid/alkanethiol bilayers on a gold(111) surface. <i>Biophysical Journal</i> , 1999 , 77, 964-72	2.9	45
20	Environmental Dependence of the Dynamics of Protein Hydration Water. <i>Journal of the American Chemical Society</i> , 1999 , 121, 9740-9741	16.4	61
19	Constant-pressure molecular dynamics investigation of cholesterol effects in a dipalmitoylphosphatidylcholine bilayer. <i>Biophysical Journal</i> , 1998 , 75, 2147-56	2.9	178
18	Atomic-scale molecular dynamics simulations of lipid membranes. <i>Current Opinion in Colloid and Interface Science</i> , 1997 , 2, 15-26	7.6	169
17	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
16	Molecular Dynamics Simulations of a Calcium Carbonate/Calcium Sulfonate Reverse Micelle. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6637-6648		84

15	Explicit reversible integrators for extended systems dynamics. <i>Molecular Physics</i> , 1996 , 87, 1117-1157	1.7	1296
14	Molecular dynamics investigation of an ethanol-water solution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 231, 117-122	3.3	36
13	Molecular Dynamics Investigation of the Lamellar Liquid-Crystal D-Phase in the Octylammonium Chloride/Water System. <i>Molecular Simulation</i> , 1996 , 16, 219-228	2	2
12	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
11	Constant pressure molecular dynamics algorithms. <i>Journal of Chemical Physics</i> , 1994 , 101, 4177-4189	3.9	3338
10	Stability of a model beta-sheet in water. <i>Journal of Molecular Biology</i> , 1992 , 227, 1244-52	6.5	39
9	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
8	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
7	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
6	Reverse turns in blocked dipeptides are intrinsically unstable in water. <i>Journal of Molecular Biology</i> , 1990 , 216, 783-96	6.5	79
5	Conformational flexibility in free energy simulations. <i>Chemical Physics Letters</i> , 1989 , 156, 256-260	2.5	26
4	Thermodynamics of amide hydrogen bond formation in polar and apolar solvents. <i>Journal of Molecular Biology</i> , 1989 , 209, 817-20	6.5	76
3	Molecular dynamics with internal coordinate constraints. <i>Journal of Chemical Physics</i> , 1988 , 89, 5115-5127	3.9	81
2	Calculation of free energy surfaces using the methods of thermodynamic perturbation theory. <i>Chemical Physics Letters</i> , 1987 , 142, 472-476	2.5	69
1	Explicit reversible integrators for extended systems dynamics		142