

Max L Berkowitz

List of Publications by Year in descending order

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139
papers

30,898
citations

17440

63
h-index

10734

138
g-index

145
all docs

145
docs citations

145
times ranked

25354
citing authors

#	ARTICLE	IF	CITATIONS
1	A smooth particle mesh Ewald method. <i>Journal of Chemical Physics</i> , 1995, 103, 8577-8593.	3.0	18,266
2	Ewald summation for systems with slab geometry. <i>Journal of Chemical Physics</i> , 1999, 111, 3155-3162.	3.0	1,157
3	Molecular hardness and softness, local hardness and softness, hardness and softness kernels, and relations among these quantities. <i>Journal of Chemical Physics</i> , 1988, 88, 2554-2557.	3.0	397
4	Molecular Dynamics Simulation of Sodium Dodecyl Sulfate Micelle in Water: Micellar Structural Characteristics and Counterion Distribution. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3788-3793.	2.6	334
5	Many-body effects in molecular dynamics simulations of $\text{Na}^+(\text{H}_2\text{O})_n$ and $\text{Cl}^-(\text{H}_2\text{O})_n$ clusters. <i>Journal of Chemical Physics</i> , 1991, 95, 1954-1963.	3.0	322
6	On the concept of local hardness in chemistry. <i>Journal of the American Chemical Society</i> , 1985, 107, 6811-6814.	13.7	307
7	Local structural order and molecular associations in water-DMSO mixtures. <i>Molecular dynamics study. Journal of the American Chemical Society</i> , 1992, 114, 7889-7896.	13.7	298
8	Structure of Dipalmitoylphosphatidylcholine/Cholesterol Bilayer at Low and High Cholesterol Concentrations: Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 1999, 77, 2075-2089.	0.5	271
9	Aqueous Solutions next to Phospholipid Membrane Surfaces: Insights from Simulations. <i>Chemical Reviews</i> , 2006, 106, 1527-1539.	47.7	238
10	Transcription of ground-state density-functional theory into a local thermodynamics.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1984, 81, 8028-8031.	7.1	232
11	Molecular Dynamics Simulation of a Dipalmitoylphosphatidylcholine Bilayer with NaCl. <i>Biophysical Journal</i> , 2003, 84, 3743-3750.	0.5	226
12	Simulation of Sodium Dodecyl Sulfate at the Water-Vapor and Water-Carbon Tetrachloride Interfaces at Low Surface Coverage. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3793-3799.	2.6	201
13	A classical fluid-like approach to the density-functional formalism of many-electron systems. <i>Journal of Chemical Physics</i> , 1985, 83, 2976-2983.	3.0	191
14	Molecular dynamics with stochastic boundary conditions. <i>Chemical Physics Letters</i> , 1982, 90, 215-217.	2.6	185
15	Dielectric constant of water at high electric fields: Molecular dynamics study. <i>Journal of Chemical Physics</i> , 1999, 110, 7935-7942.	3.0	183
16	Structure and dynamics of water at the Pt(111) interface: Molecular dynamics study. <i>Journal of Chemical Physics</i> , 1991, 94, 2110-2117.	3.0	179
17	Molecular Dynamics Simulations of Sodium Dodecyl Sulfate Micelle in Water: The Behavior of Water. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10902-10907.	2.6	173
18	Molecular dynamics simulation of a membrane/water interface: the ordering of water and its relation to the hydration force. <i>Langmuir</i> , 1993, 9, 3122-3131.	3.5	172

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19	The dielectric constant of SPC/E water. <i>Chemical Physics Letters</i> , 1989, 155, 173-176.	2.6	164
20	Structures of $\text{Cl}^{\sim}(\text{H}_2\text{O})_n$ and $\text{F}^{\sim}(\text{H}_2\text{O})_n$ ($n=2,3,\dots,15$) clusters. <i>Molecular dynamics computer simulations. Journal of Chemical Physics</i> , 1994, 100, 3085-3093.	3.0	154
21	Electric-Field Induced Restructuring of Water at a Platinum-Water Interface: A Molecular Dynamics Computer Simulation. <i>Physical Review Letters</i> , 1995, 74, 3193-3196.	7.8	149
22	Detailed molecular dynamics simulations of model biological membranes containing cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 86-96.	2.6	149
23	Effect of the treatment of long-range forces on the dynamics of ions in aqueous solutions. <i>Journal of Chemical Physics</i> , 1995, 102, 450-456.	3.0	148
24	Mixed Bilayer Containing Dipalmitoylphosphatidylcholine and Dipalmitoylphosphatidylserine: Lipid Complexation, Ion Binding, and Electrostatics. <i>Biophysical Journal</i> , 2003, 85, 3120-3131.	0.5	148
25	Molecular Dynamics Simulation of Dipalmitoylphosphatidylserine Bilayer with Na^+ Counterions. <i>Biophysical Journal</i> , 2002, 82, 1818-1827.	0.5	145
26	Density functional approach to frontier controlled reactions. <i>Journal of the American Chemical Society</i> , 1987, 109, 4823-4825.	13.7	144
27	Effects of Alkali Cations and Halide Anions on the DOPC Lipid Membrane. <i>Journal of Physical Chemistry A</i> , 2009, 113, 7235-7243.	2.5	144
28	Complexation of Phosphatidylcholine Lipids with Cholesterol. <i>Biophysical Journal</i> , 2004, 86, 1345-1356.	0.5	143
29	United atom force field for phospholipid membranes: Constant pressure molecular dynamics simulation of dipalmitoylphosphatidicholine/water system. <i>Journal of Computational Chemistry</i> , 1999, 20, 531-545.	3.3	136
30	Sodium chloride ion pair interaction in water: computer simulation. <i>Chemical Physics Letters</i> , 1984, 105, 577-580.	2.6	135
31	Molecular Dynamics Simulation of the Structure of Dimyristoylphosphatidylcholine Bilayers with Cholesterol, Ergosterol, and Lanosterol. <i>Biophysical Journal</i> , 2001, 80, 1649-1658.	0.5	129
32	Computer Simulation Study of the Interface Width of the Liquid/Liquid Interface. <i>Physical Review Letters</i> , 2001, 87, 176101.	7.8	128
33	Structure and dynamics of water at the interface with phospholipid bilayers. <i>Journal of Chemical Physics</i> , 2005, 123, 224702.	3.0	122
34	Dynamical Properties of Phospholipid Bilayers from Computer Simulation. <i>Biophysical Journal</i> , 1999, 76, 2081-2089.	0.5	120
35	Structure and dynamics of $\text{Cl}^{\sim}(\text{H}_2\text{O})_{20}$ clusters: The effect of the polarizability and the charge of the ion. <i>Journal of Chemical Physics</i> , 1992, 96, 8288-8294.	3.0	118
36	Computer Simulations of Sodium Dodecyl Sulfate at Liquid/Liquid and Liquid/Vapor Interfaces. <i>Journal of Physical Chemistry B</i> , 2000, 104, 5302-5308.	2.6	118

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37	The Origin of the Hydration Interaction of Lipid Bilayers from MD Simulation of Dipalmitoylphosphatidylcholine Membranes in Gel and Liquid Crystalline Phases. <i>Langmuir</i> , 1995, 11, 4519-4531.	3.5	117
38	Diffusion-controlled reactions: A variational formula for the optimum reaction coordinate. <i>Journal of Chemical Physics</i> , 1983, 79, 5563-5565.	3.0	108
39	Solvation structure of a sodium chloride ion pair in water. <i>Journal of the American Chemical Society</i> , 1986, 108, 1755-1761.	13.7	108
40	Interaction Between Amyloid- β^2 (1-42) Peptide and Phospholipid Bilayers: A Molecular Dynamics Study. <i>Biophysical Journal</i> , 2009, 96, 785-797.	0.5	108
41	A molecular dynamics study of the structure and dynamics of water between dilauroylphosphatidylethanolamine bilayers. <i>Langmuir</i> , 1992, 8, 233-240.	3.5	106
42	Dynamics of ion solvation in a Stockmayer fluid. <i>Journal of Chemical Physics</i> , 1992, 96, 3092-3101.	3.0	104
43	The solvation of Cl^- , Br^- , and I^- in acetonitrile clusters: Photoelectron spectroscopy and molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 1996, 105, 2675-2685.	3.0	103
44	Stabilization energies of Cl^- , Br^- , and I^- ions in water clusters. <i>Journal of Chemical Physics</i> , 1993, 99, 4222-4224.	3.0	100
45	Aqueous Solutions at the Interface with Phospholipid Bilayers. <i>Accounts of Chemical Research</i> , 2012, 45, 74-82.	15.6	100
46	Chemical Potential Equalization Principle: A Direct Approach from Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5687-5691.	2.5	93
47	Water structure and dynamics in phosphate fluorosurfactant based reverse micelle: A computer simulation study. <i>Journal of Chemical Physics</i> , 2003, 118, 1937-1944.	3.0	91
48	An algorithm to describe molecular scale rugged surfaces and its application to the study of a water/lipid bilayer interface. <i>Journal of Chemical Physics</i> , 2003, 119, 2199-2205.	3.0	90
49	Mechanism of Interaction of Monovalent Ions with Phosphatidylcholine Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 9504-9509.	2.6	89
50	The limiting ionic conductivity of Na^+ and Cl^- ions in aqueous solutions: Molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 1987, 86, 376-382.	3.0	88
51	Difference between Magainin-2 and Melittin Assemblies in Phosphatidylcholine Bilayers: Results from Coarse-Grained Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3021-3030.	2.6	81
52	Liquid-vapor interface of TIP4P water: comparison between a polarizable and a nonpolarizable model. <i>Chemical Physics Letters</i> , 1991, 176, 61-66.	2.6	79
53	Molecular Dynamics Simulation of DPPC Bilayer in DMSO. <i>Biophysical Journal</i> , 1999, 76, 2472-2478.	0.5	79
54	Structure of Phosphate Fluorosurfactant Based Reverse Micelles in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2002, 18, 7371-7376.	3.5	78

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55	The Implementation of Slab Geometry for Membrane-Channel Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2003, 85, 97-107.	0.5	76
56	Structure of the Amyloid- β^2 (1 \hat{a} \sim 42) Monomer Absorbed To Model Phospholipid Bilayers: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14480-14486.	2.6	75
57	Molecular Model of a Cell Plasma Membrane With an Asymmetric Multicomponent Composition: Water Permeation and Ion Effects. <i>Biophysical Journal</i> , 2009, 96, 4493-4501.	0.5	75
58	Generalized Langevin dynamics simulations with arbitrary time \hat{e} dependent memory kernels. <i>Journal of Chemical Physics</i> , 1983, 78, 3256-3261.	3.0	71
59	Role of Water in the Hydration Force Acting between Lipid Bilayers. <i>Langmuir</i> , 1996, 12, 2625-2629.	3.5	71
60	Hydronium and hydroxide at the interface between water and hydrophobic media. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4975.	2.8	68
61	Mechanism of Membrane Poration by Shock Wave Induced Nanobubble Collapse: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6225-6234.	2.6	67
62	Molecular dynamics simulations of tips2 water restricted by a spherical hydrophobic boundary. <i>Chemical Physics Letters</i> , 1985, 113, 278-282.	2.6	65
63	Enthalpies of formation and stabilization energies of Br \hat{a} \sim (H $\hat{2}$ O) \hat{n} (n=1,2, \hat{a} \in 1, 15) clusters. Comparisons between molecular dynamics computer simulations and experiment. <i>Chemical Physics Letters</i> , 1994, 218, 377-382.	2.6	65
64	Cube to cage transitions in (H $\hat{2}$ O) \hat{n} (n=12, 16, and 20). <i>Journal of Chemical Physics</i> , 1996, 105, 3715-3721.	3.0	63
65	Theory of vibrational relaxation in solids: The competition between local phonon and roton receiving modes. <i>Chemical Physics</i> , 1979, 37, 369-388.	1.9	62
66	Molecular Dynamics Simulation of Dipalmitoylphosphatidylcholine Membrane with Cholesterol Sulfate. <i>Biophysical Journal</i> , 2000, 78, 1672-1680.	0.5	62
67	Energetics of Cholesterol Transfer between Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3807-3811.	2.6	62
68	Structure and Dynamics of Water in the Presence of Charged Surfactant Monolayers at the Water \hat{a} \sim CCl $\hat{4}$ Interface. A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10775-10780.	2.6	59
69	Exponential approximation for the density matrix and the Wigner's distribution. <i>Chemical Physics Letters</i> , 1986, 129, 486-488.	2.6	58
70	Structure and dynamics of high \hat{e} pressure TIP4P water. <i>Journal of Chemical Physics</i> , 1987, 87, 6682-6686.	3.0	58
71	A molecular dynamics study of the effect of temperature on the structure and dynamics of water between Pt walls. <i>Chemical Physics Letters</i> , 1989, 162, 32-38.	2.6	58
72	Computer simulation of a water/membrane interface. <i>Langmuir</i> , 1991, 7, 1042-1044.	3.5	58

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73	Molecular Dynamics Simulation Studies of Polyether and Perfluoropolyether Surfactant Based Reverse Micelles in Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12906-12916.	2.6	58
74	Melittin Creates Transient Pores in a Lipid Bilayer: Results from Computer Simulations. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5031-5042.	2.6	58
75	Molecular Dynamics Simulations of Bilayers Containing Mixtures of Sphingomyelin with Cholesterol and Phosphatidylcholine with Cholesterol. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12888-12897.	2.6	57
76	Orientalional Dynamics of Water in Phospholipid Bilayers with Different Hydration Levels. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7676-7680.	2.6	57
77	Binding and reorientation of melittin in a POPC bilayer: Computer simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2975-2981.	2.6	56
78	Comparison of the structure and dynamics of water at the Pt(111) and Pt(100) interfaces: molecular dynamics study. <i>Chemical Physics Letters</i> , 1991, 177, 426-432.	2.6	55
79	Molecular Dynamics Study of Water next to Electrified Ag(111) Surfaces. <i>Langmuir</i> , 1996, 12, 3747-3752.	3.5	55
80	Role of Rotational and Translational Local Modes in Vibrational Relaxation in Solids: A Study of NH and ND in Solid Ar. <i>Physical Review Letters</i> , 1977, 39, 1000-1004.	7.8	54
81	Vibrational relaxation of molecules in solids: The role of rotational and of translational local modes. <i>Chemical Physics Letters</i> , 1977, 49, 260-264.	2.6	54
82	The structure of water at platinum/water interfaces Molecular dynamics computer simulations. <i>Surface Science</i> , 1995, 335, 401-415.	1.9	54
83	Photodetachment spectra of Cl ⁻ (H ₂ O) _n clusters. Predictions and comparisons. <i>Chemical Physics Letters</i> , 1997, 264, 31-38.	2.6	54
84	Exterior Site Occupancy Infers Chloride-Induced Proton Gating in a Prokaryotic Homolog of the ClC Chloride Channel. <i>Biophysical Journal</i> , 2004, 87, 1686-1696.	0.5	54
85	Role of water in atomic resolution AFM in solutions. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12584.	2.8	54
86	Communication: Modeling of concentration dependent water diffusivity in ionic solutions: Role of intermolecular charge transfer. <i>Journal of Chemical Physics</i> , 2015, 143, 241101.	3.0	53
87	A molecular dynamics study of the early stages of amyloid β (1-42) oligomerization: The role of lipid membranes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 2533-2545.	2.6	52
88	Hydration force between model hydrophilic surfaces: Computer simulations. <i>Journal of Chemical Physics</i> , 2006, 124, 101101.	3.0	50
89	Computer Simulation Studies of Water States in Perfluoro Polyether Reverse Micelles: Effects of Changing the Counterion. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9768-9776.	2.5	49
90	Molecular dynamics simulation of fluorination effects on a phospholipid bilayer. <i>Journal of Chemical Physics</i> , 1999, 111, 9864-9870.	3.0	47

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91	Molecular Dynamics Simulations of SOPS and Sphingomyelin Bilayers Containing Cholesterol. <i>Biophysical Journal</i> , 2007, 92, 1284-1295.	0.5	47
92	Origin of the Hydration Force: Water-Mediated Interaction between Two Hydrophilic Plates. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13222-13228.	2.6	47
93	Role of Charge Transfer in Water Diffusivity in Aqueous Ionic Solutions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2711-2716.	4.6	46
94	Free Energy Barrier for Melittin Reorientation from a Membrane-Bound State to a Transmembrane State. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13457-13463.	2.6	45
95	Properties of Poloxamer Molecules and Poloxamer Micelles Dissolved in Water and Next to Lipid Bilayers: Results from Computer Simulations. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5823-5830.	2.6	45
96	Molecular Dynamics Simulation of a Reverse Micelle Self Assembly in Supercritical CO ₂ . <i>Journal of the American Chemical Society</i> , 2004, 126, 10254-10255.	13.7	44
97	The behavior of reorientational correlation functions of water at the water-lipid bilayer interface. <i>Journal of Chemical Physics</i> , 2006, 125, 094713.	3.0	42
98	Memory kernels from molecular dynamics. <i>Journal of Chemical Physics</i> , 1981, 75, 2462-2463.	3.0	40
99	Shock wave interaction with a phospholipid membrane: Coarse-grained computer simulations. <i>Journal of Chemical Physics</i> , 2014, 140, 054906.	3.0	40
100	Opening of the Blood-Brain Barrier Tight Junction Due to Shock Wave Induced Bubble Collapse: A Molecular Dynamics Simulation Study. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1296-1301.	3.5	40
101	Thermally Induced Structural Changes in F-(H ₂ O) ₁₁ and Cl-(H ₂ O) ₁₁ Clusters: A Molecular Dynamics Computer Simulations. <i>The Journal of Physical Chemistry</i> , 1996, 100, 1350-1356.	2.9	39
102	Effects of oxygenated sterol on phospholipid bilayer properties: a molecular dynamics simulation. <i>Chemistry and Physics of Lipids</i> , 2001, 112, 31-39.	3.2	39
103	Nanobubbles, cavitation, shock waves and traumatic brain injury. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32638-32652.	2.8	37
104	Aqueous solution near charged Ag(111) surfaces: comparison between a computer simulation and experiment. <i>Chemical Physics Letters</i> , 1999, 301, 81-86.	2.6	36
105	Influence of the arrangement and secondary structure of melittin peptides on the formation and stability of toroidal pores. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2258-2266.	2.6	36
106	Ultrafast solvation dynamics in a Stockmayer fluid. <i>Journal of Chemical Physics</i> , 1992, 97, 5253-5254.	3.0	35
107	Effect of ion-electrode contact on the energetics of the heterogeneous electron transfer. <i>Chemical Physics Letters</i> , 1994, 227, 561-566.	2.6	35
108	Temperature dependence of conductance of the Li ⁺ , Cs ⁺ , and Cl ⁻ ions in water: Molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 1988, 88, 7104-7110.	3.0	33

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109	Free energy profiles for lithium(1+) and iodide ions approaching the platinum(100) surface: a molecular dynamics study. <i>The Journal of Physical Chemistry</i> , 1993, 97, 13803-13806.	2.9	33
110	Effects of the polarizability and water density constraint on the structure of water near charged surfaces: Molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2000, 112, 10491-10495.	3.0	33
111	Monte Carlo simulation of homopolymer chains. I. Second virial coefficient. <i>Journal of Chemical Physics</i> , 2003, 118, 4721-4732.	3.0	30
112	Fluctuations in Number of Water Molecules Confined between Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13410-13414.	2.6	30
113	Shock Wave Induced Collapse of Arrays of Nanobubbles Located Next to a Lipid Membrane: Coarse-Grained Computer Simulations. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8879-8889.	2.6	28
114	Mobility of stretched water. <i>Journal of Chemical Physics</i> , 1993, 98, 9859-9862.	3.0	25
115	Ion solvation in water clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993, 26, 166-168.	1.0	22
116	Restructuring of Hydrophobic Surfaces Created by Surfactant Adsorption to Mica Surfaces. <i>Langmuir</i> , 2011, 27, 11737-11741.	3.5	22
117	Shock Wave-Induced Damage of a Protein by Void Collapse. <i>Biophysical Journal</i> , 2016, 110, 147-156.	0.5	22
118	Thermodynamic and Hydrogen-Bonding Analyses of the Interaction between Model Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3013-3019.	2.6	20
119	The Effect of the Rigidity of Perfluoropolyether Surfactant on Its Behavior at the Water/Supercritical Carbon Dioxide Interface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21725-21731.	2.6	14
120	Behavior of P85 and P188 Poloxamer Molecules: Computer Simulations Using United-Atom Force-Field. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8631-8641.	2.6	14
121	Molecular Dynamics Simulation Study of Interaction between Model Rough Hydrophobic Surfaces. <i>Journal of Physical Chemistry A</i> , 2011, 115, 6059-6067.	2.5	13
122	Local Pressure Changes in Lipid Bilayers Due to Adsorption of Melittin and Magainin-h2 Antimicrobial Peptides: Results from Computer Simulations. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12673-12679.	2.6	11
123	Resolving the structure of a model hydrophobic surface: DODAB monolayers on mica. <i>RSC Advances</i> , 2012, 2, 4181.	3.6	10
124	Molecular dynamics simulation study of the water-mediated interaction between zwitterionic and charged surfaces. <i>Journal of Chemical Physics</i> , 2012, 136, 024501.	3.0	10
125	Bubbles in water under stretch-induced cavitation. <i>Journal of Chemical Physics</i> , 2019, 150, 054501.	3.0	10
126	Molecular and Atomic Dipole Moments in Heteronuclear and Homonuclear Diatomics. Density Functional Approach. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4808-4812.	2.5	9

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127	The effect of water structure and surface charge correlations on the hydration force acting between model hydrophilic surfaces. <i>Molecular Physics</i> , 2006, 104, 3607-3617.	1.7	9
128	A comparative computational study of coarse-grained and all-atom water models in shock Hugoniot states. <i>Journal of Chemical Physics</i> , 2018, 148, 144504.	3.0	9
129	Damage to Polystyrene Polymer Film by Shock Wave Induced Bubble Collapse. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7494-7499.	2.6	9
130	Molecular polarizability and atomic properties: Density functional approach. <i>Journal of Chemical Physics</i> , 1998, 109, 10142-10147.	3.0	8
131	Molecular Simulations of Aqueous Electrolytes: Role of Explicit Inclusion of Charge Transfer into Force Fields. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13069-13076.	2.6	6
132	Interaction Forces between Membrane Surfaces. <i>Advances in Chemistry Series</i> , 1994, , 3-25.	0.6	3
133	A Molecular Look at Membranes. <i>Current Topics in Membranes</i> , 2016, 77, 1-25.	0.9	3
134	Chapter 9 On the Nature of Lipid Rafts: Insights from Molecularly Detailed Simulations of Model Biological Membranes Containing Mixtures of Cholesterol and Phospholipids. <i>Current Topics in Membranes</i> , 2008, , 257-279.	0.9	1
135	Restructuring of a Model Hydrophobic Surface: Monte Carlo Simulations Using a Simple Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15584-15590.	2.6	1
136	Enhanced Cavitation and Hydration Crossover of Stretched Water in the Presence of C ₆₀ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6621-6625.	4.6	1
137	A smooth particle mesh Ewald method. , 0, .		1
138	Stretch-Induced Cavitation: How Critical Cavity Radius and Barrier Energy, Radius, and Energy of a Stable Cavity Depend on the Stretching Factor. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4409-4414.	2.6	0
139	Solvation Dynamics in a Stockmayer Fluid. , 1993, , 461-483.		0