

Max L Berkowitz

List of Publications by Year in Descending Order

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

140
papers

25,986
citations

62
h-index

145
g-index

145
ext. papers

28,628
ext. citations

4.3
avg, IF

6.77
L-index

#	Paper	IF	Citations
140	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	3.4	2
139	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	3.4	
138	Damage to Polystyrene Polymer Film by Shock Wave Induced Bubble Collapse. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7494-7499	3.4	4
137	Bubbles in water under stretch-induced cavitation. <i>Journal of Chemical Physics</i> , 2019 , 150, 054501	3.9	7
136	Enhanced Cavitation and Hydration Crossover of Stretched Water in the Presence of C. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6621-6625	6.4	
135	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	3.9	8
134	Behavior of P85 and P188 Poloxamer Molecules: Computer Simulations Using United-Atom Force-Field. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8631-41	3.4	14
133	Shock Wave-Induced Damage of a Protein by Void Collapse. <i>Biophysical Journal</i> , 2016 , 110, 147-56	2.9	19
132	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, 5823-30	3.4	38
131	A Molecular Look at Membranes. <i>Current Topics in Membranes</i> , 2016 , 77, 1-25	2.2	3
130	Nanobubbles, cavitation, shock waves and traumatic brain injury. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32638-32652	3.6	21
129	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, 1296-301	5.7	30
128	Communication: Modeling of concentration dependent water diffusivity in ionic solutions: Role of intermolecular charge transfer. <i>Journal of Chemical Physics</i> , 2015 , 143, 241101	3.9	40
127	Mechanism of membrane poration by shock wave induced nanobubble collapse: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6225-34	3.4	48
126	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, 8879-89	3.4	20
125	Shock wave interaction with a phospholipid membrane: coarse-grained computer simulations. <i>Journal of Chemical Physics</i> , 2014 , 140, 054906	3.9	33
124	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, 12673-9	3.4	10

123	Role of Charge Transfer in Water Diffusivity in Aqueous Ionic Solutions. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2711-6	6.4	39
122	Melittin creates transient pores in a lipid bilayer: results from computer simulations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 5031-42	3.4	47
121	Free energy barrier for melittin reorientation from a membrane-bound state to a transmembrane state. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13457-63	3.4	39
120	Restructuring of a model hydrophobic surface: Monte Carlo simulations using a simple coarse-grained model. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15584-90	3.4	1
119	Aqueous solutions at the interface with phospholipid bilayers. <i>Accounts of Chemical Research</i> , 2012 , 45, 74-82	24.3	88
118	Binding and reorientation of melittin in a POPC bilayer: computer simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 2975-81	3.8	51
117	Resolving the structure of a model hydrophobic surface: DODAB monolayers on mica. <i>RSC Advances</i> , 2012 , 2, 4181	3.7	9
116	Molecular dynamics simulation study of the water-mediated interaction between zwitterionic and charged surfaces. <i>Journal of Chemical Physics</i> , 2012 , 136, 024501	3.9	9
115	Difference between magainin-2 and melittin assemblies in phosphatidylcholine bilayers: results from coarse-grained simulations. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 3021-30	3.4	67
114	Role of water in atomic resolution AFM in solutions. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12584-94	3.4	51
113	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, 2258-66	3.8	32
112	Restructuring of hydrophobic surfaces created by surfactant adsorption to mica surfaces. <i>Langmuir</i> , 2011 , 27, 11737-41	4	19
111	Molecular dynamics simulation study of interaction between model rough hydrophobic surfaces. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 6059-67	2.8	10
110	Thermodynamic and hydrogen-bonding analyses of the interaction between model lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 3013-9	3.4	19
109	Fluctuations in number of water molecules confined between nanoparticles. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13410-4	3.4	29
108	Mechanism of interaction of monovalent ions with phosphatidylcholine lipid membranes. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9504-9	3.4	81
107	A molecular dynamics study of the early stages of amyloid-beta(1-42) oligomerization: the role of lipid membranes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 2533-45	4.2	48
106	Effects of alkali cations and halide anions on the DOPC lipid membrane. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7235-43	2.8	133

105	Origin of the hydration force: water-mediated interaction between two hydrophilic plates. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13222-8	3.4	46
104	Oriental dynamics of water in phospholipid bilayers with different hydration levels. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7676-80	3.4	54
103	Structure of the amyloid-beta (1-42) monomer absorbed to model phospholipid bilayers: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 14480-6	3.4	70
102	Detailed molecular dynamics simulations of model biological membranes containing cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 86-96	3.8	131
101	Interaction between amyloid-beta (1-42) peptide and phospholipid bilayers: a molecular dynamics study. <i>Biophysical Journal</i> , 2009 , 96, 785-97	2.9	98
100	Molecular model of a cell plasma membrane with an asymmetric multicomponent composition: water permeation and ion effects. <i>Biophysical Journal</i> , 2009 , 96, 4493-501	2.9	63
99	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	2.2	1
98	Hydronium and hydroxide at the interface between water and hydrophobic media. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4975-80	3.6	65
97	Energetics of cholesterol transfer between lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3803-11	3.4	56
96	Molecular dynamics simulations of bilayers containing mixtures of sphingomyelin with cholesterol and phosphatidylcholine with cholesterol. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12888-97	3.4	57
95	Molecular dynamics simulations of SOPS and sphingomyelin bilayers containing cholesterol. <i>Biophysical Journal</i> , 2007 , 92, 1284-95	2.9	38
94	The behavior of reorientational correlation functions of water at the water-lipid bilayer interface. <i>Journal of Chemical Physics</i> , 2006 , 125, 094713	3.9	36
93	Hydration force between model hydrophilic surfaces: computer simulations. <i>Journal of Chemical Physics</i> , 2006 , 124, 101101	3.9	47
92	Aqueous solutions next to phospholipid membrane surfaces: insights from simulations. <i>Chemical Reviews</i> , 2006 , 106, 1527-39	68.1	218
91	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
90	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, 21725-31	3.4	14
89	Structure and dynamics of water at the interface with phospholipid bilayers. <i>Journal of Chemical Physics</i> , 2005 , 123, 224702	3.9	110
88	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	2.8	49

87	Exterior site occupancy infers chloride-induced proton gating in a prokaryotic homolog of the CLC chloride channel. <i>Biophysical Journal</i> , 2004 , 87, 1686-96	2.9	51
86	Molecular dynamics simulation of a reverse micelle self assembly in supercritical CO ₂ . <i>Journal of the American Chemical Society</i> , 2004 , 126, 10254-5	16.4	41
85	Complexation of phosphatidylcholine lipids with cholesterol. <i>Biophysical Journal</i> , 2004 , 86, 1345-56	2.9	130
84	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	3.4	55
83	Water structure and dynamics in phosphate fluorosurfactant based reverse micelle: A computer simulation study. <i>Journal of Chemical Physics</i> , 2003 , 118, 1937-1944	3.9	90
82	The implementation of slab geometry for membrane-channel molecular dynamics simulations. <i>Biophysical Journal</i> , 2003 , 85, 97-107	2.9	64
81	Mixed bilayer containing dipalmitoylphosphatidylcholine and dipalmitoylphosphatidylserine: lipid complexation, ion binding, and electrostatics. <i>Biophysical Journal</i> , 2003 , 85, 3120-31	2.9	140
80	Molecular dynamics simulation of a dipalmitoylphosphatidylcholine bilayer with NaCl. <i>Biophysical Journal</i> , 2003 , 84, 3743-50	2.9	205
79	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	3.9	85
78	Monte Carlo simulation of homopolymer chains. I. Second virial coefficient. <i>Journal of Chemical Physics</i> , 2003 , 118, 4721-4732	3.9	26
77	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	3.4	161
76	Structure of Phosphate Fluorosurfactant Based Reverse Micelles in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2002 , 18, 7371-7376	4	73
75	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	3.4	293
74	Molecular dynamics simulation of dipalmitoylphosphatidylserine bilayer with Na ⁺ counterions. <i>Biophysical Journal</i> , 2002 , 82, 1818-27	2.9	138
73	Effects of oxygenated sterol on phospholipid bilayer properties: a molecular dynamics simulation. <i>Chemistry and Physics of Lipids</i> , 2001 , 112, 31-9	3.7	36
72	Molecular dynamics simulation of the structure of dimyristoylphosphatidylcholine bilayers with cholesterol, ergosterol, and lanosterol. <i>Biophysical Journal</i> , 2001 , 80, 1649-58	2.9	120
71	Computer simulation study of the interface width of the liquid/liquid interface. <i>Physical Review Letters</i> , 2001 , 87, 176101	7.4	112
70	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	3.9	28

69	Molecular dynamics simulation of dipalmitoylphosphatidylcholine membrane with cholesterol sulfate. <i>Biophysical Journal</i> , 2000 , 78, 1672-80	2.9	62
68	Computer Simulations of Sodium Dodecyl Sulfate at Liquid/Liquid and Liquid/Vapor Interfaces. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 5302-5308	3.4	113
67	Dielectric constant of water at high electric fields: Molecular dynamics study. <i>Journal of Chemical Physics</i> , 1999 , 110, 7935-7942	3.9	164
66	Molecular dynamics simulation of fluorination effects on a phospholipid bilayer. <i>Journal of Chemical Physics</i> , 1999 , 111, 9864-9870	3.9	43
65	Aqueous solution near charged Ag(111) surfaces: comparison between a computer simulation and experiment. <i>Chemical Physics Letters</i> , 1999 , 301, 81-86	2.5	31
64	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	3.5	136
63	Ewald summation for systems with slab geometry. <i>Journal of Chemical Physics</i> , 1999 , 111, 3155-3162	3.9	978
62	Structure of dipalmitoylphosphatidylcholine/cholesterol bilayer at low and high cholesterol concentrations: molecular dynamics simulation. <i>Biophysical Journal</i> , 1999 , 77, 2075-89	2.9	252
61	Dynamical properties of phospholipid bilayers from computer simulation. <i>Biophysical Journal</i> , 1999 , 76, 2081-9	2.9	111
60	Molecular dynamics simulation of DPPC bilayer in DMSO. <i>Biophysical Journal</i> , 1999 , 76, 2472-8	2.9	76
59	Molecular and Atomic Dipole Moments in Heteronuclear and Homonuclear Diatomics. Density Functional Approach. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 4808-4812	2.8	8
58	Molecular polarizability and atomic properties: Density functional approach. <i>Journal of Chemical Physics</i> , 1998 , 109, 10142-10147	3.9	6
57	Structure and Dynamics of Water in the Presence of Charged Surfactant Monolayers at the Water/CCl ₄ Interface. A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10775-10780	3.4	55
56	Chemical Potential Equalization Principle: Direct Approach from Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5687-5691	2.8	84
55	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	3.4	191
54	Photodetachment spectra of Cl(H ₂ O) _n clusters. Predictions and comparisons. <i>Chemical Physics Letters</i> , 1997 , 264, 31-38	2.5	54
53	Thermally Induced Structural Changes in F-(H ₂ O) ₁₁ and Cl-(H ₂ O) ₁₁ Clusters: Molecular Dynamics Computer Simulations. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 1350-1356		38
52	Role of Water in the Hydration Force Acting between Lipid Bilayers. <i>Langmuir</i> , 1996 , 12, 2625-2629	4	69

51	Molecular Dynamics Study of Water next to Electrified Ag(111) Surfaces. <i>Langmuir</i> , 1996 , 12, 3747-3752	4	54
50	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	3.9	95
49	Cube to cage transitions in (H ₂ O) _n (n=12, 16, and 20). <i>Journal of Chemical Physics</i> , 1996 , 105, 3715-3721	3.9	61
48	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	7.4	135
47	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	3.9	139
46	The structure of water at platinum/water interfaces Molecular dynamics computer simulations. <i>Surface Science</i> , 1995 , 335, 401-415	1.8	51
45	A smooth particle mesh Ewald method. <i>Journal of Chemical Physics</i> , 1995 , 103, 8577-8593	3.9	14532
44	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	4	110
43	Interaction Forces between Membrane Surfaces. <i>Advances in Chemistry Series</i> , 1994 , 3-25		2
42	Structures of Cl ⁻ (H ₂ O) _n and F ⁻ (H ₂ O) _n (n=2,3,...,15) clusters. Molecular dynamics computer simulations. <i>Journal of Chemical Physics</i> , 1994 , 100, 3085-3093	3.9	146
41	Enthalpies of formation and stabilization energies of Br ⁻ (H ₂ O) _n (n=1,2, ...15) clusters. Comparisons between molecular dynamics computer simulations and experiment. <i>Chemical Physics Letters</i> , 1994 , 218, 377-382	2.5	63
40	Effect of ion-electrode contact on the energetics of the heterogeneous electron transfer. <i>Chemical Physics Letters</i> , 1994 , 227, 561-566	2.5	34
39	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	4	156
38	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		30
37	Mobility of stretched water. <i>Journal of Chemical Physics</i> , 1993 , 98, 9859-9862	3.9	24
36	Stabilization energies of Cl ⁻ , Br ⁻ and I ⁻ ions in water clusters. <i>Journal of Chemical Physics</i> , 1993 , 99, 4222-4224	3.9	96
35	Ion solvation in water clusters. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1993 , 26, 166-168		22
34	Solvation Dynamics in a Stockmayer Fluid 1993 , 461-483		

33	Structure and dynamics of $\text{Cl}(\text{H}_2\text{O})_{20}$ clusters: The effect of the polarizability and the charge of the ion. <i>Journal of Chemical Physics</i> , 1992 , 96, 8288-8294	3.9	112
32	Dynamics of ion solvation in a Stockmayer fluid. <i>Journal of Chemical Physics</i> , 1992 , 96, 3092-3101	3.9	100
31	Ultrafast solvation dynamics in a Stockmayer fluid. <i>Journal of Chemical Physics</i> , 1992 , 97, 5253-5254	3.9	35
30	Local structural order and molecular associations in water-DMSO mixtures. Molecular dynamics study. <i>Journal of the American Chemical Society</i> , 1992 , 114, 7889-7896	16.4	276
29	A molecular dynamics study of the structure and dynamics of water between dilauroylphosphatidylethanolamine bilayers. <i>Langmuir</i> , 1992 , 8, 233-240	4	97
28	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	2.5	50
27	Liquid-vapor interface of TIP4P water: comparison between a polarizable and a nonpolarizable model. <i>Chemical Physics Letters</i> , 1991 , 176, 61-66	2.5	77
26	Structure and dynamics of water at the Pt(111) interface: Molecular dynamics study. <i>Journal of Chemical Physics</i> , 1991 , 94, 2110-2117	3.9	171
25	Computer simulation of a water/membrane interface. <i>Langmuir</i> , 1991 , 7, 1042-1044	4	55
24	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	3.9	300
23	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	2.5	56
22	The dielectric constant of SPC/E water. <i>Chemical Physics Letters</i> , 1989 , 155, 173-176	2.5	145
21	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	3.9	354
20	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	3.9	32
19	Density functional approach to frontier controlled reactions. <i>Journal of the American Chemical Society</i> , 1987 , 109, 4823-4825	16.4	122
18	Structure and dynamics of high-pressure TIP4P water. <i>Journal of Chemical Physics</i> , 1987 , 87, 6682-6686	3.9	58
17	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	3.9	75
16	Exponential approximation for the density matrix and the Wigner distribution. <i>Chemical Physics Letters</i> , 1986 , 129, 486-488	2.5	51

15	Solvation structure of a sodium chloride ion pair in water. <i>Journal of the American Chemical Society</i> , 1986 , 108, 1755-1761	16.4	102
14	Molecular dynamics simulations of tips2 water restricted by a spherical hydrophobic boundary. <i>Chemical Physics Letters</i> , 1985 , 113, 278-282	2.5	57
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	3.9	175
12	On the concept of local hardness in chemistry. <i>Journal of the American Chemical Society</i> , 1985 , 107, 6811-6814	16.4	270
11	Sodium chloride ion pair interaction in water: computer simulation. <i>Chemical Physics Letters</i> , 1984 , 105, 577-580	2.5	129
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, 8028-31	11.5	198
9	Generalized Langevin dynamics simulations with arbitrary time-dependent memory kernels. <i>Journal of Chemical Physics</i> , 1983 , 78, 3256-3261	3.9	62
8	Diffusion-controlled reactions: A variational formula for the optimum reaction coordinate. <i>Journal of Chemical Physics</i> , 1983 , 79, 5563-5565	3.9	100
7	Molecular dynamics with stochastic boundary conditions. <i>Chemical Physics Letters</i> , 1982 , 90, 215-217	2.5	167
6	Memory kernels from molecular dynamics. <i>Journal of Chemical Physics</i> , 1981 , 75, 2462-2463	3.9	31
5	Theory of vibrational relaxation in solids: The competition between local phonon and roton receiving modes. <i>Chemical Physics</i> , 1979 , 37, 369-388	2.3	58
4	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	7.4	50
3	Vibrational relaxation of molecules in solids: The role of rotational and of translational local modes. <i>Chemical Physics Letters</i> , 1977 , 49, 260-264	2.5	49
2	A smooth particle mesh Ewald method		1
1	Molecular Detailed Simulations of Lipid Bilayers. <i>Reviews in Computational Chemistry</i> , 253-286		5