

B J Berne

List of Publications by Year in descending order

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205
papers

25,505
citations

7251

80
h-index

8034

154
g-index

212
all docs

212
docs citations

212
times ranked

16496
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient sampling of puckering states of monosaccharides through replica exchange with solute tempering and bond softening. <i>Journal of Chemical Physics</i> , 2018, 149, 072306.	1.2	12
2	Simulated Force Quench Dynamics Shows GB1 Protein Is Not a Two State Folder. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5162-5173.	1.2	14
3	How and when does an anticancer drug leave its binding site?. <i>Science Advances</i> , 2017, 3, e1700014.	4.7	111
4	Predicting reaction coordinates in energy landscapes with diffusion anisotropy. <i>Journal of Chemical Physics</i> , 2017, 147, 152701.	1.2	37
5	Advancing Drug Discovery through Enhanced Free Energy Calculations. <i>Accounts of Chemical Research</i> , 2017, 50, 1625-1632.	7.6	211
6	How wet should be the reaction coordinate for ligand unbinding?. <i>Journal of Chemical Physics</i> , 2016, 145, 054113.	1.2	31
7	Kramers turnover: From energy diffusion to spatial diffusion using metadynamics. <i>Journal of Chemical Physics</i> , 2016, 144, 134103.	1.2	18
8	Prediction of Protein-Ligand Binding Poses via a Combination of Induced Fit Docking and Metadynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2990-2998.	2.3	184
9	Spectral gap optimization of order parameters for sampling complex molecular systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2839-2844.	3.3	210
10	How a Kinase Inhibitor Withstands Gatekeeper Residue Mutations. <i>Journal of the American Chemical Society</i> , 2016, 138, 4608-4615.	6.6	44
11	Role of water and steric constraints in the kinetics of cavity-ligand unbinding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12015-12019.	3.3	74
12	Role of Desolvation in Thermodynamics and Kinetics of Ligand Binding to a Kinase. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 5696-5705.	2.3	61
13	Elasticity, structure, and relaxation of extended proteins under force. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3847-3852.	3.3	81
14	When Does Trimethylamine <i>N</i> -Oxide Fold a Polymer Chain and Urea Unfold It?. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8723-8732.	1.2	99
15	How hydrophobic drying forces impact the kinetics of molecular recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13277-13282.	3.3	45
16	Unraveling quantum mechanical effects in water using isotopic fractionation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7988-7991.	3.3	97
17	Rate limit of protein elastic response is tether dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14416-14421.	3.3	59
18	Are Hydrodynamic Interactions Important in the Kinetics of Hydrophobic Collapse?. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11537-11544.	1.2	29

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19	Interplay between Hydrodynamics and the Free Energy Surface in the Assembly of Nanoscale Hydrophobes. <i>Journal of Physical Chemistry B</i> , 2012, 116, 378-389.	1.2	52
20	Structure and Dynamics of Acetonitrile Confined in a Silica Nanopore. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9582-9593.	1.5	38
21	Theory and simulations of quantum glass forming liquids. <i>Journal of Chemical Physics</i> , 2012, 136, 074511.	1.2	34
22	On achieving high accuracy and reliability in the calculation of relative protein-ligand binding affinities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1937-1942.	3.3	204
23	Comment on "Urea-Mediated Protein Denaturation: A Consensus View". <i>Journal of Physical Chemistry B</i> , 2011, 115, 1323-1326.	1.2	35
24	Efficient multiple time scale molecular dynamics: Using colored noise thermostats to stabilize resonances. <i>Journal of Chemical Physics</i> , 2011, 134, 014103.	1.2	61
25	Replica Exchange with Solute Scaling: A More Efficient Version of Replica Exchange with Solute Tempering (REST2). <i>Journal of Physical Chemistry B</i> , 2011, 115, 9431-9438.	1.2	595
26	Ligand binding to protein-binding pockets with wet and dry regions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1326-1330.	3.3	178
27	Dewetting transitions in protein cavities. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 1856-1869.	1.5	64
28	Water's role in the force-induced unfolding of ubiquitin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19284-19289.	3.3	37
29	Probing static disorder in Arrhenius kinetics by single-molecule force spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11336-11340.	3.3	65
30	First passage time distribution in stochastic processes with moving and static absorbing boundaries with application to biological rupture experiments. <i>Journal of Chemical Physics</i> , 2010, 133, 034105.	1.2	30
31	Thermal and Structural Stability of Adsorbed Proteins. <i>Biophysical Journal</i> , 2010, 99, 1157-1165.	0.2	32
32	Competition of Electrostatic and Hydrophobic Interactions between Small Hydrophobes and Model Enclosures. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7294-7301.	1.2	32
33	A Displaced-Solvent Functional Analysis of Model Hydrophobic Enclosures. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2924-2934.	2.3	31
34	Molecular Dynamics with Multiple Time Scales: How to Avoid Pitfalls. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1798-1804.	2.3	57
35	Hydrophobic interactions in model enclosures from small to large length scales: non-additivity in explicit and implicit solvent models. <i>Faraday Discussions</i> , 2010, 146, 247.	1.6	31
36	Single homopolypeptide chains collapse into mechanically rigid conformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12605-12610.	3.3	84

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37	Solvent Effects on the Self-Assembly of 1-Bromoeicosane on Graphite. Part I. Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3631-3640.	1.5	23
38	Hydrophobic Interactions and Dewetting between Plates with Hydrophobic and Hydrophilic Domains. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5244-5253.	1.5	104
39	Solvent Effects on the Self-Assembly of 1-Bromoeicosane on Graphite. Part II. Theory. <i>Journal of Physical Chemistry C</i> , 2009, 113, 3641-3649.	1.5	9
40	Thermodynamic Properties of Liquid Water: An Application of a Nonparametric Approach to Computing the Entropy of a Neat Fluid. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 1462-1473.	2.3	47
41	Urea's Action on Hydrophobic Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 1535-1541.	6.6	288
42	Role of Water in Mediating the Assembly of Alzheimer Amyloid- β Protofilaments. <i>Journal of the American Chemical Society</i> , 2008, 130, 11066-11072.	6.6	208
43	Massively parallel molecular dynamics simulations of lysozyme unfolding. <i>IBM Journal of Research and Development</i> , 2008, 52, 19-30.	3.2	22
44	Chain-Length Effects on the Self-Assembly of Short 1-Bromoalkane and <i>n</i> -Alkane Monolayers on Graphite. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18067-18075.	1.5	36
45	Dissecting Entropic Coiling and Poor Solvent Effects in Protein Collapse. <i>Journal of the American Chemical Society</i> , 2008, 130, 11578-11579.	6.6	31
46	Scanning Tunneling Microscopy Images of Alkane Derivatives on Graphite: Role of Electronic Effects. <i>Nano Letters</i> , 2008, 8, 3160-3165.	4.5	86
47	Temperature Dependence of Dimerization and Dewetting of Large-Scale Hydrophobes: A Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8634-8644.	1.2	83
48	Urea denaturation by stronger dispersion interactions with proteins than water implies a 2-stage unfolding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16928-16933.	3.3	470
49	Destruction of long-range interactions by a single mutation in lysozyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5824-5829.	3.3	71
50	On the Calculation of Time Correlation Functions. <i>Advances in Chemical Physics</i> , 2007, , 63-227.	0.3	415
51	Signatures of hydrophobic collapse in extended proteins captured with force spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7916-7921.	3.3	99
52	Serial Replica Exchange. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1416-1423.	1.2	35
53	Molecular Dynamics Simulation Studies of Self-Assembly of Racemic (R)/(S)-2-Bromohexadecanoic Acid on a Graphite Surface: Enantio-pure or Enantio-mixed Domains?. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18243-18250.	1.5	10
54	Replica Exchange with Solute Tempering: Efficiency in Large Scale Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5405-5410.	1.2	103

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55	Effect of Ions on the Hydrophobic Interaction between Two Plates. <i>Journal of the American Chemical Society</i> , 2007, 129, 4678-4686.	6.6	223
56	Hydrophobic Aided Replica Exchange: An Efficient Algorithm for Protein Folding in Explicit Solvent. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19018-19022.	1.2	74
57	Aggregation and Dispersion of Small Hydrophobic Particles in Aqueous Electrolyte Solutions. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22736-22741.	1.2	92
58	Dynamics of Water Confined in the Interdomain Region of a Multidomain Protein. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3704-3711.	1.2	93
59	Elastic Bag Model for Molecular Dynamics Simulations of Solvated Systems: Application to Liquid Water and Solvated Peptides. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13256-13263.	1.2	10
60	Replica exchange with solute tempering: A method for sampling biological systems in explicit water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13749-13754.	3.3	634
61	Observation of a dewetting transition in the collapse of the melittin tetramer. <i>Nature</i> , 2005, 437, 159-162.	13.7	362
62	Transport properties of normal liquid helium: Comparison of various methodologies. <i>Journal of Chemical Physics</i> , 2005, 123, 184506.	1.2	18
63	Ultra-high vacuum scanning tunneling microscopy and theoretical studies of 1-halohexane monolayers on graphite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5315-5322.	3.3	37
64	Polarizable molecules in the vibrational spectroscopy of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 11611-11616.	3.3	77
65	Elastic Bag Model for Molecular Dynamics Simulations of Solvated Systems: Application to Liquid Argon. <i>Journal of Physical Chemistry B</i> , 2005, 109, 463-470.	1.2	14
66	Structure and Dynamics of the Solvation of Bovine Pancreatic Trypsin Inhibitor in Explicit Water: A Comparative Study of the Effects of Solvent and Protein Polarizability. <i>Journal of Physical Chemistry B</i> , 2005, 109, 16529-16538.	1.2	55
67	Efficient Simulation Method for Polarizable Protein Force Fields: Application to the Simulation of BPTI in Liquid Water. <i>Journal of Chemical Theory and Computation</i> , 2005, 1, 169-180.	2.3	68
68	Hydrogen-Bond Dynamics in the Air-Water Interface. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2949-2955.	1.2	121
69	Multiple time step Monte Carlo simulations: Application to charged systems with Ewald summation. <i>Journal of Chemical Physics</i> , 2004, 121, 44.	1.2	15
70	Reply to the Comment on "Do Molecules as Small as Neopentane Induce a Hydrophobic Response Similar to that of Large Hydrophobic Surfaces?". <i>Journal of Physical Chemistry B</i> , 2004, 108, 9373-9374.	1.2	0
71	Comment on "Can a Continuum Solvent Model Reproduce the Free Energy Landscape of a Hairpin Folding in Water? The Poisson-Boltzmann Equation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7528-7530.	1.2	34
72	Development of an Accurate and Robust Polarizable Molecular Mechanics Force Field from ab Initio Quantum Chemistry. <i>Journal of Physical Chemistry A</i> , 2004, 108, 621-627.	1.1	221

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73	On the Calculation of Diffusion Coefficients in Confined Fluids and Interfaces with an Application to the Liquid-Vapor Interface of Water. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6595-6602.	1.2	337
74	Do Molecules as Small as Neopentane Induce a Hydrophobic Response Similar to That of Large Hydrophobic Surfaces?. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11742-11748.	1.2	66
75	Quantum path minimization: An efficient method for global optimization. <i>Journal of Chemical Physics</i> , 2003, 118, 2999-3005.	1.2	28
76	Dewetting-induced collapse of hydrophobic particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11953-11958.	3.3	264
77	Can a continuum solvent model reproduce the free energy landscape of a α -hairpin folding in water?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12777-12782.	3.3	326
78	The calculation of transport properties in quantum liquids using the maximum entropy numerical analytic continuation method: Application to liquid para-hydrogen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1129-1133.	3.3	89
79	Computer Simulation of a "Green Chemistry" Room-Temperature Ionic Solvent. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12017-12021.	1.2	268
80	Helix Unfolding and Intramolecular Hydrogen Bond Dynamics in Small α -Helices in Explicit Solvent. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10748-10752.	1.2	33
81	Multiple "time step" Monte Carlo. <i>Journal of Chemical Physics</i> , 2002, 117, 8203-8207.	1.2	47
82	Can Water Polarizability Be Ignored in Hydrogen Bond Kinetics?. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2054-2060.	1.2	195
83	Development of a polarizable force field for proteins via ab initio quantum chemistry: First generation model and gas phase tests. <i>Journal of Computational Chemistry</i> , 2002, 23, 1515-1531.	1.5	296
84	Blue Gene: A vision for protein science using a petaflop supercomputer. <i>IBM Systems Journal</i> , 2001, 40, 310-327.	3.1	211
85	Hydrogen-Bond Kinetics in the Solvation Shell of a Polypeptide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 11929-11932.	1.2	225
86	Quantum Rate Constants from Short-Time Dynamics: An Analytic Continuation Approach. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2824-2833.	1.1	50
87	Quantum Thermal Annealing with Renormalization: Application to a Frustrated Model Protein. <i>Journal of Physical Chemistry A</i> , 2001, 105, 459-464.	1.1	23
88	The free energy landscape for α hairpin folding in explicit water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 14931-14936.	3.3	499
89	Efficient multiple time step method for use with Ewald and particle mesh Ewald for large biomolecular systems. <i>Journal of Chemical Physics</i> , 2001, 115, 2348-2358.	1.2	121
90	Quantum effects in liquid water: Path-integral simulations of a flexible and polarizable ab initio model. <i>Journal of Chemical Physics</i> , 2001, 115, 7622-7628.	1.2	157

#	ARTICLE	IF	CITATIONS
91	Combined fluctuating charge and polarizable dipole models: Application to a five-site water potential function. <i>Journal of Chemical Physics</i> , 2001, 115, 2237-2251.	1.2	267
92	Quantum time correlation functions from complex time Monte Carlo simulations: A maximum entropy approach. <i>Journal of Chemical Physics</i> , 2001, 114, 1075-1088.	1.2	48
93	Perspective on "Statistical mechanics of isomerization dynamics in liquids and the transition state approximation". <i>Theoretical Chemistry Accounts</i> , 2000, 103, 335-336.	0.5	1
94	Multicanonical jump walk annealing: An efficient method for geometric optimization. <i>Journal of Chemical Physics</i> , 2000, 112, 2701-2708.	1.2	29
95	Quantum mechanical canonical rate theory: A new approach based on the reactive flux and numerical analytic continuation methods. <i>Journal of Chemical Physics</i> , 2000, 112, 2605-2614.	1.2	72
96	Catalytic tempering: A method for sampling rough energy landscapes by Monte Carlo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 11164-11169.	3.3	24
97	Rabani, Gezelter, and Berne Reply:. <i>Physical Review Letters</i> , 2000, 85, 467-467.	2.9	7
98	Global Optimization: Quantum Thermal Annealing with Path Integral Monte Carlo. <i>Journal of Physical Chemistry A</i> , 2000, 104, 86-95.	1.1	68
99	Multicanonical jump walking: A method for efficiently sampling rough energy landscapes. <i>Journal of Chemical Physics</i> , 1999, 110, 10299-10306.	1.2	40
100	Real time quantum correlation functions. I. Centroid molecular dynamics of anharmonic systems. <i>Journal of Chemical Physics</i> , 1999, 111, 9140-9146.	1.2	31
101	The dependence of the rate constant for isomerization on the competition between intramolecular vibrational relaxation and energy transfer to the bath: A stochastic model. <i>Journal of Chemical Physics</i> , 1999, 110, 1053-1060.	1.2	8
102	Path-integral diffusion Monte Carlo: Calculation of observables of many-body systems in the ground state. <i>Journal of Chemical Physics</i> , 1999, 110, 6143-6153.	1.2	20
103	Calculating the hopping rate for diffusion in molecular liquids: CS ₂ . <i>Journal of Chemical Physics</i> , 1999, 110, 3444-3452.	1.2	26
104	Direct Observation of Stretched-Exponential Relaxation in Low-Temperature Lennard-Jones Systems Using the Cage Correlation Function. <i>Physical Review Letters</i> , 1999, 82, 3649-3652.	2.9	73
105	Second-Order Reentrant Phase Transition in the Quantum Anisotropic Planar Rotor Model. <i>Physical Review Letters</i> , 1999, 83, 4606-4609.	2.9	14
106	Electronic properties of CdSe nanocrystals in the absence and presence of a dielectric medium. <i>Journal of Chemical Physics</i> , 1999, 110, 5355-5369.	1.2	235
107	Real time quantum correlation functions. II. Maximum entropy numerical analytic continuation of path integral Monte Carlo and centroid molecular dynamics data. <i>Journal of Chemical Physics</i> , 1999, 111, 9147-9156.	1.2	52
108	Nonradiative relaxation processes in condensed phases: Quantum versus classical baths. <i>Journal of Chemical Physics</i> , 1999, 110, 5238-5248.	1.2	64

#	ARTICLE	IF	CITATIONS
109	Parametrizing a polarizable force field from ab initio data. I. The fluctuating point charge model. <i>Journal of Chemical Physics</i> , 1999, 110, 741-754.	1.2	251
110	Classical Approximation to Nonradiative Electronic Relaxation in Condensed Phase Systems. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9539-9544.	1.1	39
111	Fluctuating Charge, Polarizable Dipole, and Combined Models: Parameterization from ab Initio Quantum Chemistry. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4730-4737.	1.2	250
112	On the Adequacy of Mixed Quantum-Classical Dynamics in Condensed Phase Systems. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10978-10991.	1.2	72
113	Surface Curvature Effects in the Aqueous Ionic Solvation of the Chloride Ion. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10300-10307.	1.1	117
114	Energy Dissipation in Nonlinear Systems Coupled to a Bath: On the Use of Perturbative Maps. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9380-9389.	1.1	2
115	A comparison of exact quantum mechanical and various semiclassical treatments for the vibronic absorption spectrum: The case of fast vibrational relaxation. <i>Journal of Chemical Physics</i> , 1998, 109, 6376-6381.	1.2	38
116	Constructing ab initio force fields for molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 1998, 108, 4739-4755.	1.2	133
117	Vibronic spectra in condensed matter: A comparison of exact quantum mechanical and various semiclassical treatments for harmonic baths. <i>Journal of Chemical Physics</i> , 1998, 108, 1407-1422.	1.2	86
118	On the application of numerical analytic continuation methods to the study of quantum mechanical vibrational relaxation processes. <i>Journal of Chemical Physics</i> , 1998, 109, 7745-7755.	1.2	45
119	Response to "Comment on a critique of the instantaneous normal mode (INM) approach to diffusion" [J. Chem. Phys. 109, 4693 (1998)]. <i>Journal of Chemical Physics</i> , 1998, 109, 4695-4696.	1.2	20
120	Can imaginary instantaneous normal mode frequencies predict barriers to self-diffusion?. <i>Journal of Chemical Physics</i> , 1997, 107, 4618-4627.	1.2	99
121	Large scale simulation of macromolecules in solution: Combining the periodic fast multipole method with multiple time step integrators. <i>Journal of Chemical Physics</i> , 1997, 106, 9835-9849.	1.2	108
122	The simulation of electronic absorption spectrum of a chromophore coupled to a condensed phase environment: Maximum entropy versus singular value decomposition approaches. <i>Journal of Chemical Physics</i> , 1997, 107, 9312-9318.	1.2	40
123	Effect of pressure on hydrogen bonding in glycerol: A molecular dynamics investigation. <i>Journal of Chemical Physics</i> , 1997, 107, 4350-4357.	1.2	94
124	Circumventing the pathological behavior of path-integral Monte Carlo for systems with Coulomb potentials. <i>Journal of Chemical Physics</i> , 1997, 107, 571-575.	1.2	22
125	Calculating the hopping rate for self-diffusion on rough potential energy surfaces: Cage correlations. <i>Journal of Chemical Physics</i> , 1997, 107, 6867-6876.	1.2	118
126	Solvation and reorganization energies in polarizable molecular and continuum solvents. <i>Journal of Chemical Physics</i> , 1997, 106, 2372-2387.	1.2	70

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127	Vibrational energy relaxation in the condensed phases: Quantum vs classical bath for multiphonon processes. <i>Journal of Chemical Physics</i> , 1997, 107, 6050-6061.	1.2	94
128	Smart walking: A new method for Boltzmann sampling of protein conformations. <i>Journal of Chemical Physics</i> , 1997, 107, 9185-9196.	1.2	87
129	Free Energy of the Hydrophobic Interaction from Molecular Dynamics Simulations: The Effects of Solute and Solvent Polarizability. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10488-10493.	1.2	89
130	Novel methods of sampling phase space in the simulation of biological systems. <i>Current Opinion in Structural Biology</i> , 1997, 7, 181-189.	2.6	206
131	Dynamical Fluctuating Charge Force Fields: The Aqueous Solvation of Amides. <i>Journal of the American Chemical Society</i> , 1996, 118, 672-679.	6.6	223
132	Molecular dynamics with multiple time scales: The selection of efficient reference system propagators. <i>Journal of Chemical Physics</i> , 1996, 105, 1426-1436.	1.2	121
133	Inferring the hydrophobic interaction from the properties of neat water.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 8800-8803.	3.3	50
134	Path-Integral Monte Carlo Scheme for Rigid Tops: Application to the Quantum Rotator Phase Transition in Solid Methane. <i>Physical Review Letters</i> , 1996, 77, 2638-2641.	2.9	29
135	Molecular dynamics for nonequilibrium systems in which there are a small number of very hot particles in a cold bath: Reference system propagator methods. <i>Journal of Chemical Physics</i> , 1996, 105, 235-239.	1.2	4
136	Solvation energies and electronic spectra in polar, polarizable media: Simulation tests of dielectric continuum theory. <i>Journal of Chemical Physics</i> , 1996, 104, 1293-1308.	1.2	96
137	The energy relaxation of a nonlinear oscillator coupled to a linear bath. <i>Journal of Chemical Physics</i> , 1996, 104, 1111-1119.	1.2	49
138	On the calculation of dynamical properties of solvated electrons by maximum entropy analytic continuation of path integral Monte Carlo data. <i>Journal of Chemical Physics</i> , 1996, 105, 7064-7078.	1.2	85
139	Effects of Polarizability on the Hydration of the Chloride Ion. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11934-11943.	2.9	258
140	A scaling and mapping theory for excess electrons in simple fluids. <i>Journal of Chemical Physics</i> , 1995, 102, 432-436.	1.2	34
141	Activated rate processes: The reactive flux method for one-dimensional surface diffusion. <i>Journal of Chemical Physics</i> , 1995, 102, 4037-4055.	1.2	27
142	The energy-dependent transmission coefficient and the energy distribution of classical particles escaping from a metastable well. <i>Journal of Chemical Physics</i> , 1995, 102, 7953-7965.	1.2	13
143	Molecular Dynamics Study of the Dependence of Water Solvation Free Energy on Solute Curvature and Surface Area. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2885-2892.	2.9	140
144	Computer Simulation of Hydrophobic Hydration Forces on Stacked Plates at Short Range. <i>The Journal of Physical Chemistry</i> , 1995, 99, 2893-2899.	2.9	279

#	ARTICLE	IF	CITATIONS
145	Molecular Dynamics Calculation of the Effect of Solvent Polarizability on the Hydrophobic Interaction. <i>Journal of the American Chemical Society</i> , 1995, 117, 7172-7179.	6.6	77
146	Hydrodynamic calculation of the frequency dependent friction on the bond of a diatomic molecule. <i>Journal of Chemical Physics</i> , 1995, 103, 1160-1174.	1.2	13
147	Computer simulation of solid C60 using multiple time-step algorithms. <i>Journal of Chemical Physics</i> , 1994, 101, 2421-2431.	1.2	47
148	The absorption spectrum of the solvated electron in fluid helium by maximum entropy inversion of imaginary time correlation functions from path integral Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 1994, 101, 9909-9918.	1.2	78
149	Dynamical fluctuating charge force fields: Application to liquid water. <i>Journal of Chemical Physics</i> , 1994, 101, 6141-6156.	1.2	1,133
150	Quantum and classical relaxation rates from classical simulations. <i>Journal of Chemical Physics</i> , 1994, 100, 8359-8366.	1.2	358
151	The Aqueous Solvation of Water: A Comparison of Continuum Methods with Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 1994, 116, 3949-3954.	6.6	135
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