

Arun Yethiraj

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233
papers

7,240
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51
h-index

68
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238
ext. papers

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ext. citations

4.2
avg, IF

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L-index

#	Paper	IF	Citations
233	A new coarse-grained model for water: the importance of electrostatic interactions. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10524-9	3.4	150
232	Monte Carlo density functional theory of nonuniform polymer melts. <i>Journal of Chemical Physics</i> , 1995 , 102, 5499-5505	3.9	144
231	Monte-Carlo simulation of polymers confined between flat plates. <i>Macromolecules</i> , 1990 , 23, 1865-1872	5.5	130
230	Self-diffusion and viscosity in electrolyte solutions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12007-13	3.4	117
229	Rheology of Confined Polymer Melts. <i>Macromolecules</i> , 1996 , 29, 7910-7918	5.5	115
228	Polymer reference interaction site model theory: New molecular closures for phase separating fluids and alloys. <i>Journal of Chemical Physics</i> , 1993 , 98, 9053-9079	3.9	108
227	Effect of macromolecular crowding on reaction rates: a computational and theoretical study. <i>Biophysical Journal</i> , 2009 , 96, 1333-40	2.9	96
226	Short chains at surfaces and interfaces: A quantitative comparison between density-functional theories and Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2003 , 118, 2929	3.9	96
225	Solvent effects on the collapse dynamics of polymers. <i>Journal of Chemical Physics</i> , 2001 , 114, 7688-7699	3.9	91
224	Density functional theory of polymers: A Curtin-Ashcroft type weighted density approximation. <i>Journal of Chemical Physics</i> , 1998 , 109, 3269-3275	3.9	90
223	Why are lipid rafts not observed in vivo?. <i>Biophysical Journal</i> , 2007 , 93, 3113-9	2.9	89
222	Phase behavior of semiflexible tangent hard sphere chains. <i>Journal of Chemical Physics</i> , 1998 , 108, 1636-1644	3.6	88
221	Low-symmetry sphere packings of simple surfactant micelles induced by ionic sphericity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4072-4077	11.5	82
220	Molecular simulation and continuum mechanics study of simple fluids in non-isothermal planar couette flows. <i>Journal of Chemical Physics</i> , 1997 , 107, 2589-2596	3.9	82
219	Monte Carlo simulations and integral equation theory for microscopic correlations in polymeric fluids. <i>Journal of Chemical Physics</i> , 1992 , 96, 797-807	3.9	82
218	Monte Carlo simulation of hard chain-hard sphere mixtures in slitlike pores. <i>Journal of Chemical Physics</i> , 1989 , 91, 4827-4837	3.9	81
217	Density functional theory for inhomogeneous polymer solutions. <i>Journal of Chemical Physics</i> , 1994 , 100, 3181-3186	3.9	80

216	Site-site correlations in short chain fluids. <i>Journal of Chemical Physics</i> , 1990 , 93, 4453-4461	3.9	79
215	Density Functional Theory for the Distribution of Small Ions around Polyions. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6080-6087	3.4	77
214	Integral equation theory for the adsorption of chain fluids in slitlike pores. <i>Journal of Chemical Physics</i> , 1991 , 95, 3749-3755	3.9	76
213	Structure of Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 1996 , 77, 3937-3940	7.4	75
212	Liquid-state theory of the density dependent conformation of nonpolar linear polymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 6857-6872	3.9	75
211	Generalized Flory equations of state for square-well chains. <i>Journal of Chemical Physics</i> , 1991 , 95, 8494-8506	3.9	75
210	Rheological, thermodynamic, and structural studies of linear and branched alkanes under shear. <i>Journal of Chemical Physics</i> , 1997 , 107, 6956-6964	3.9	73
209	Monte Carlo simulation of confined semiflexible polymer melts. <i>Journal of Chemical Physics</i> , 1994 , 101, 2489-2497	3.9	72
208	A New Coarse-Grained Force Field for Membrane-Peptide Simulations. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 3793-802	6.4	70
207	A finite element framework for studying the mechanical response of macromolecules: application to the gating of the mechanosensitive channel MscL. <i>Biophysical Journal</i> , 2006 , 91, 1248-63	2.9	68
206	Entropy-based mechanism of ribosome-nucleoid segregation in E. coli cells. <i>Biophysical Journal</i> , 2011 , 100, 2605-13	2.9	65
205	Molecular dynamics simulations of heat and momentum transfer at a solid-fluid interface: Relationship between thermal and velocity slip. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 3401-3407	4.9	65
204	Conformational Properties and Static Structure Factor of Polyelectrolyte Solutions. <i>Physical Review Letters</i> , 1997 , 78, 3789-3792	7.4	64
203	Surface segregation in polymer blends due to stiffness disparity. <i>Journal of Chemical Physics</i> , 1994 , 100, 4691-4694	3.9	63
202	Strongly charged flexible polyelectrolytes in poor solvents: Molecular dynamics simulations with explicit solvent. <i>Journal of Chemical Physics</i> , 2003 , 118, 6634-6647	3.9	62
201	Square-well chains: Bulk equation of state using perturbation theory and Monte Carlo simulations of the bulk pressure and of the density profiles near walls. <i>Journal of Chemical Physics</i> , 1991 , 95, 1999-2003	3.9	61
200	Integral equation theory of solutions of rigid polyelectrolytes. <i>Journal of Chemical Physics</i> , 1997 , 106, 5706-5719	3.9	60
199	Entropic and enthalpic surface segregation from blends of branched and linear polymers. <i>Physical Review Letters</i> , 1995 , 74, 2018-2021	7.4	60

198	Interaction between colloids in solutions containing dissolved polymer. <i>Journal of Colloid and Interface Science</i> , 1992 , 151, 102-117	9.3	60
197	Liquid state theory of polyelectrolyte solutions. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 1539-51	3.4	59
196	Square-well diatomics: Bulk equation of state, density profiles near walls, virial coefficients and coexistence properties. <i>Molecular Physics</i> , 1991 , 72, 619-641	1.7	59
195	Implicit and Explicit Solvent Models for the Simulation of Dilute Polymer Solutions. <i>Macromolecules</i> , 2006 , 39, 8536-8542	5.5	57
194	Computer Simulation Study of Two-Dimensional Polymer Solutions. <i>Macromolecules</i> , 2003 , 36, 5854-5863	3.5	56
193	Theory for chain conformations and static structure of dilute and semidilute polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 1998 , 108, 1184-1192	3.9	55
192	Dilute Solutions of Strongly Charged Flexible Polyelectrolytes in Poor Solvents: Molecular Dynamics Simulations with Explicit Solvent. <i>Macromolecules</i> , 2006 , 39, 821-828	5.5	55
191	Dynamics in crowded environments: is non-Gaussian Brownian diffusion normal?. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 8128-34	3.4	54
190	Density functional theory for nonuniform polymers: Accurate treatment of the effect of attractive interactions. <i>Journal of Chemical Physics</i> , 2003 , 118, 4702-4706	3.9	54
189	Integral equation theory of polymer blends: Numerical investigation of molecular closure approximations. <i>Journal of Chemical Physics</i> , 1993 , 98, 9080-9093	3.9	54
188	Polymer-induced forces between colloidal particles. A Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 1994 , 100, 4683-4690	3.9	54
187	First-Principles United Atom Force Field for the Ionic Liquid BMIM(+)-BF4(-): An Alternative to Charge Scaling. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 3560-8	3.4	52
186	First-Principles, Physically Motivated Force Field for the Ionic Liquid [BMIM][BF4]. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2670-4	6.4	52
185	Why do arginine and lysine organize lipids differently? Insights from coarse-grained and atomistic simulations. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12145-56	3.4	52
184	Monte Carlo simulation of the equilibrium partitioning of chain fluids between a bulk and a pore. <i>Molecular Physics</i> , 1991 , 73, 503-515	1.7	52
183	Ab Initio Force Fields for Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7024-36	3.4	52
182	Self-consistent polymer integral equation theory: Comparisons with Monte Carlo simulations and alternative closure approximations. <i>Journal of Chemical Physics</i> , 1992 , 97, 1455-1464	3.9	51
181	A Monte Carlo simulation study of branched polymers. <i>Journal of Chemical Physics</i> , 2006 , 125, 204901	3.9	50

180	Lateral diffusion and percolation in membranes. <i>Physical Review Letters</i> , 2006 , 96, 228103	7.4	50
179	Perturbation density functional theory and Monte Carlo simulations for the structure of hard triatomic fluids in slitlike pores. <i>Journal of Chemical Physics</i> , 1995 , 102, 2141-2150	3.9	50
178	Local density enhancement in dilute supercritical solutions. <i>Chemical Physics Letters</i> , 2000 , 317, 558-566	2.5	49
177	Isotropic to nematic transition in semiflexible polymer melts. <i>Molecular Physics</i> , 1998 , 93, 693-701	1.7	49
176	Atomistic Simulations of Poly(ethylene oxide) in Water and an Ionic Liquid at Room Temperature. <i>Macromolecules</i> , 2014 , 47, 438-446	5.5	47
175	Microscopic equations of state of polyethylene: Hard-chain contribution to the pressure. <i>Journal of Chemical Physics</i> , 1993 , 98, 1635-1646	3.9	46
174	Diffusion of hard sphere fluids in disordered media: a molecular dynamics simulation study. <i>Physical Review E</i> , 2004 , 69, 051101	2.4	44
173	Generalized van der Waals density functional theory for nonuniform polymers. <i>Journal of Chemical Physics</i> , 2000 , 112, 1579-1584	3.9	44
172	Density functional theory for the nonspecific binding of salt to polyelectrolytes: thermodynamic properties. <i>Biophysical Journal</i> , 2000 , 78, 699-706	2.9	44
171	Monte Carlo calculation of the osmotic second virial coefficient of off-lattice athermal polymers. <i>Macromolecules</i> , 1992 , 25, 3979-3983	5.5	44
170	Crowding effects on association reactions at membranes. <i>Biophysical Journal</i> , 2010 , 98, 951-8	2.9	43
169	Brownian dynamics simulations of salt-free polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2002 , 116, 5284	3.9	43
168	Characterization of nanofibers formed by self-assembly of beta-peptide oligomers using small angle x-ray scattering. <i>Journal of Chemical Physics</i> , 2008 , 129, 095103	3.9	42
167	On the scaling of the critical temperature with the degree of polymerization in symmetric polymer blends. <i>Journal of Chemical Physics</i> , 1992 , 97, 5927-5930	3.9	42
166	Lateral diffusion of proteins in the plasma membrane: spatial tessellation and percolation theory. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 143-9	3.4	41
165	Polymer Melts at Solid Surfaces. <i>Advances in Chemical Physics</i> , 2002 , 89-139		41
164	Influence of Electronic Polarization on the Structure of Ionic Liquids. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4765-4770	6.4	39
163	Self-assembly of gemini surfactants: a computer simulation study. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 4254-62	3.4	39

162	Computer simulations and integral equation theory for the structure of salt-free rigid rod polyelectrolyte solutions: Explicit incorporation of counterions. <i>Journal of Chemical Physics</i> , 1999 , 110, 11599-11607	3.9	39
161	Fracking: What Can Physical Chemistry Offer?. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 687-90	6.4	37
160	The effect of matrix structure on the diffusion of fluids in porous media. <i>Journal of Chemical Physics</i> , 2008 , 128, 054702	3.9	37
159	Gating mechanisms of mechanosensitive channels of large conductance, I: a continuum mechanics-based hierarchical framework. <i>Biophysical Journal</i> , 2008 , 95, 563-80	2.9	37
158	Dynamics of chain molecules in disordered materials. <i>Physical Review Letters</i> , 2006 , 96, 107802	7.4	37
157	Anionic Phospholipids Stabilize RecA Filament Bundles in Escherichia coli. <i>Molecular Cell</i> , 2015 , 60, 374-84	7.6	36
156	The effect of salt on the melting of ice: A molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2008 , 129, 124504	3.9	36
155	Structure of Polyelectrolyte Solutions at a Charged Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9126-9132	3.4	36
154	Forces between surfaces immersed in polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 1999 , 111, 1797-1800	3.9	36
153	Microfluidic based platform for characterization of protein interactions in hydrogel nanoenvironments. <i>Analytical Chemistry</i> , 2007 , 79, 5322-7	7.8	34
152	Local structure of fluids containing chain-like molecules: Polymer reference interaction site model with a Yukawa closure. <i>Journal of Chemical Physics</i> , 1990 , 93, 5315-5321	3.9	34
151	Brownian dynamics simulations of polyelectrolyte solutions with divalent counterions. <i>Journal of Chemical Physics</i> , 2003 , 118, 11315-11325	3.9	33
150	Equations of state for star polymers. <i>Journal of Chemical Physics</i> , 1991 , 94, 3943-3948	3.9	33
149	Entropic Mechanism for the Lower Critical Solution Temperature of Poly(ethylene oxide) in a Room Temperature Ionic Liquid. <i>ACS Macro Letters</i> , 2015 , 4, 799-803	6.6	32
148	Different states of synaptotagmin regulate evoked versus spontaneous release. <i>Nature Communications</i> , 2016 , 7, 10971	17.4	32
147	Monte Carlo simulations and self-consistent integral equation theory for polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 1999 , 110, 5437-5443	3.9	32
146	Water Dynamics in Gyroid Phases of Self-Assembled Gemini Surfactants. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2472-5	16.4	31
145	Driving Force for the Association of Hydrophobic Peptides: The Importance of Electrostatic Interactions in Coarse-Grained Water Models. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 1794-1798	6.4	31

144	Establishing Effective Simulation Protocols for π -Stacked Mixed Peptides. I. QM and QM/MM Models. <i>Journal of Chemical Theory and Computation</i> , 2007 , 3, 1538-49	6.4	31
143	A diffusive anomaly of water in aqueous sodium chloride solutions at low temperatures. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1729-35	3.4	30
142	Structure and dynamics of conjugated polymers in liquid crystalline solvents. <i>Annual Review of Physical Chemistry</i> , 2007 , 58, 565-84	15.7	30
141	Ab Initio Force Fields for Organic Anions: Properties of [BMIM][TFSI], [BMIM][FSI], and [BMIM][OTf] Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4101-4114	3.4	29
140	Crowding effects on protein association: effect of interactions between crowding agents. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 347-53	3.4	29
139	Solvent effects in polyelectrolyte adsorption: computer simulations with explicit and implicit solvent. <i>Journal of Chemical Physics</i> , 2010 , 132, 074903	3.9	29
138	Nonexponentiality of time dependent survival probability and the fractional viscosity dependence of the rate in diffusion controlled reactions in a polymer chain. <i>Journal of Chemical Physics</i> , 2001 , 114, 9170-9178	3.9	29
137	The effects of local stiffness disparity on the surface segregation from binary polymer blends. <i>Journal of Chemical Physics</i> , 1995 , 103, 10332-10346	3.9	29
136	Monte Carlo simulations for the phase behavior of symmetric nonadditive hard sphere mixtures. <i>Journal of Chemical Physics</i> , 2003 , 118, 7907-7911	3.9	28
135	Phase behavior of the Widom-Bowlinson mixture. <i>Journal of Chemical Physics</i> , 1996 , 104, 7665-7670	3.9	28
134	Understanding the Properties of Ionic Liquids: Electrostatics, Structure Factors, and Their Sum Rules. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3499-3512	3.4	27
133	Sequence-dependent interaction of β peptides with membranes. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13585-92	3.4	27
132	Osmotic Pressure of Salt-Free Polyelectrolyte Solutions: A Monte Carlo Simulation Study. <i>Macromolecules</i> , 2005 , 38, 607-616	5.5	27
131	Density functional theory for pair correlation functions in polymeric liquids. <i>Journal of Chemical Physics</i> , 2001 , 114, 4323-4330	3.9	27
130	Driving Force for the Association of Amphiphilic Molecules. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2391-2395	6.4	26
129	Liquid state theories for the structure of water. <i>Journal of Chemical Physics</i> , 2003 , 119, 13012-13016	3.9	26
128	FRET by FET and Dynamics of Polymer Folding. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2475-2478	3.4	26
127	Effect of chain stiffness on the conformational properties, pair correlations, and equation of state of polymer melts. <i>Journal of Chemical Physics</i> , 1994 , 101, 9104-9112	3.9	26

126	Behavior of starlike polymers between walls. <i>Macromolecules</i> , 1991 , 24, 709-713	5.5	26
125	Coarse-grained models for aqueous polyethylene glycol solutions. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 323-9	3.4	25
124	Gating mechanisms of mechanosensitive channels of large conductance, II: systematic study of conformational transitions. <i>Biophysical Journal</i> , 2008 , 95, 581-96	2.9	25
123	Establishing effective simulation protocols for beta- and alpha/beta-peptides. II. Molecular mechanical (MM) model for a cyclic beta-residue. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5439-48	3.4	25
122	Fluctuation phenomena in structurally symmetric polymer blends. <i>Journal of Chemical Physics</i> , 1995 , 102, 2187-2208	3.9	25
121	Microscopic equations-of-state for hydrocarbon fluids: effect of attractions and comparison with polyethylene experiments. <i>Macromolecules</i> , 1993 , 26, 2655-2662	5.5	25
120	Local structure of model polymeric fluids: Hard-sphere chains and the three-dimensional fluctuating bond model. <i>Journal of Chemical Physics</i> , 1992 , 97, 4468-4475	3.9	25
119	Adsorption and Dynamics of a Single Polyelectrolyte Chain near a Planar Charged Surface: Molecular Dynamics Simulations with Explicit Solvent. <i>Journal of Chemical Theory and Computation</i> , 2006 , 2, 630-6	6.4	24
118	On equations of state for hard chain fluids. <i>Molecular Physics</i> , 1993 , 80, 469-477	1.7	24
117	Molecular simulation and continuum mechanics investigation of viscoelastic properties of fluids confined to molecularly thin films. <i>Journal of Chemical Physics</i> , 2001 , 114, 7593-7601	3.9	23
116	Two- and three-body interactions among nanoparticles in a polymer melt. <i>Journal of Chemical Physics</i> , 2011 , 134, 174901	3.9	22
115	Molecular dynamics simulations of a fluid near its critical point. <i>Physical Review Letters</i> , 2004 , 93, 015701	7.4	22
114	Self-consistent integral equation theory for semiflexible chain polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2000 , 113, 8841-8847	3.9	22
113	Atomistic simulations of dilute polyelectrolyte solutions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4319-27	3.4	21
112	Conformational Properties of Sodium Polystyrenesulfonate in Water: Insights from a Coarse-Grained Model with Explicit Solvent. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 11010-8	3.4	20
111	Conformational and Dynamic Properties of Poly(ethylene oxide) in an Ionic Liquid: Development and Implementation of a First-Principles Force Field. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 231-43	3.4	20
110	Retardation of ice crystallization by short peptides. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 4403-7	2.8	20
109	Self-consistent mode-coupling theory for the viscosity of rodlike polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2004 , 121, 8120-7	3.9	20

108	Conformational properties of isolated polyelectrolytes in poor solvents. <i>Journal of Chemical Physics</i> , 1999 , 110, 676-681	3.9	20
107	The effect of attractions on the structure of fused sphere chains confined between surfaces. <i>Journal of Chemical Physics</i> , 1999 , 111, 1608-1614	3.9	20
106	Combining Diffusion NMR and Small-Angle Neutron Scattering Enables Precise Measurements of Polymer Chain Compression in a Crowded Environment. <i>Physical Review Letters</i> , 2017 , 118, 097801	7.4	19
105	Cavity hydration dynamics in cytochrome oxidase and functional implications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E8830-E8836	11.5	19
104	Free Energy Calculations for the Peripheral Binding of Proteins/Peptides to an Anionic Membrane. 1. Implicit Membrane Models. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2845-59	6.4	19
103	Generation and sensing of membrane curvature: Where materials science and biophysics meet. <i>Current Opinion in Solid State and Materials Science</i> , 2013 , 17, 164-174	12	19
102	Swelling of polymers in porous media. <i>Journal of Chemical Physics</i> , 2009 , 130, 124908	3.9	19
101	Effect of polydispersity on diffusion in random obstacle matrices. <i>Physical Review Letters</i> , 2012 , 109, 155901	7.4	19
100	Integral Equation Theory of Random Copolymer Melts. <i>Macromolecules</i> , 2005 , 38, 2000-2008	5.5	19
99	Monte Carlo simulations and integral equation theory for the structure of telechelic polymers. <i>Journal of Chemical Physics</i> , 2003 , 119, 6916-6924	3.9	18
98	Monte Carlo simulation and self-consistent integral equation theory for polymers in quenched random media. <i>Journal of Chemical Physics</i> , 2005 , 123, 074909	3.9	18
97	Ion binding in tobacco mosaic virus solutions. <i>Journal of Chemical Physics</i> , 1998 , 109, 5162-5163	3.9	18
96	Swing motion as a diffusion mechanism of lipid bilayers in a gel phase. <i>Physical Review E</i> , 2016 , 93, 012404	2.4	17
95	Ionic Hydrogen Bonds and Lipid Packing Defects Determine the Binding Orientation and Insertion Depth of RecA on Multicomponent Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8424-37	3.4	17
94	Influence of Charge Scaling on the Solvation Properties of Ionic Liquid Solutions. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 9222-9229	3.4	17
93	Excited state kinetics of neutral transition metal atoms by stimulated emission pumping: V*(3d44s,a4D)+hydrocarbons. <i>Journal of Chemical Physics</i> , 1997 , 106, 5509-5525	3.9	17
92	Monte Carlo simulations for the equation of state of athermal linear alkanes. <i>Journal of Chemical Physics</i> , 1995 , 102, 6874-6880	3.9	17
91	Local structure of tangent-hard-sphere diatomic fluids. <i>Molecular Physics</i> , 1993 , 80, 695-700	1.7	17

90	Structure of void space in polymer solutions. <i>Physical Review E</i> , 2010 , 81, 031801	2.4	16
89	Integral equation theory of random copolymer melts: self-consistent treatment of intramolecular and intermolecular correlations. <i>Journal of Chemical Physics</i> , 2005 , 122, 234904	3.9	16
88	Molecular modeling of polymers at surfaces. <i>Chemical Engineering Journal</i> , 1999 , 74, 109-115	14.7	16
87	A computational framework for mechanical response of macromolecules: application to the salt concentration dependence of DNA bendability. <i>Biophysical Journal</i> , 2009 , 96, 3543-54	2.9	15
86	Single molecule spectroscopy of conjugated polymer chains in an electric field-aligned liquid crystal. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 448-53	3.4	15
85	Establishing effective simulation protocols for beta- and alpha/beta-peptides. III. Molecular mechanical model for acyclic beta-amino acids. <i>Journal of Computational Chemistry</i> , 2010 , 31, 2063-77	3.5	14
84	Phase behavior of semiflexible polymer chains. <i>Journal of Chemical Physics</i> , 2008 , 128, 124908	3.9	14
83	Orthogonal orientations for solvation of polymer molecules in smectic solvents. <i>Physical Review Letters</i> , 2006 , 96, 017801	7.4	14
82	Entanglement effects in mode coupling theories of polymers. <i>Journal of Chemical Physics</i> , 2002 , 117, 10448-10451	3.9	14
81	Mechanosensitive channels: insights from continuum-based simulations. <i>Cell Biochemistry and Biophysics</i> , 2008 , 52, 1-18	3.2	13
80	An Integral Equation Theory for the WidomRowlinson Mixture. <i>Journal of Statistical Physics</i> , 2000 , 100, 39-47	1.5	13
79	Comment on "Isolating the non-polar contributions to the intermolecular potential for water-alkane interactions" [J. Chem. Phys. 141, 064905 (2014)]. <i>Journal of Chemical Physics</i> , 2016 , 144, 137101	3.9	13
78	Grotthuss Transport of Iodide in EMIM/I Ionic Crystal. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 250-257	3.4	13
77	Electrostatic Interactions Govern "Odd/Even" Effects in Water-Induced Gemini Surfactant Self-Assembly. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 565-576	3.4	12
76	Conformational and Dynamic Properties of Poly(ethylene oxide) in BMIM+BF ₄ Microsecond Computer Simulation Study Using ab Initio Force Fields. <i>Macromolecules</i> , 2018 , 51, 5336-5345	5.5	12
75	The structure of amorphous polymers near surfaces: athermal systems. <i>Computational and Theoretical Polymer Science</i> , 1998 , 8, 159-168		12
74	Structure and dynamics of short chain molecules in disordered porous materials: a molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , 2007 , 126, 174906	3.9	12
73	Proper Thermal Equilibration of Simulations with Drude Polarizable Models: Temperature-Grouped Dual-Nose-Hoover Thermostat. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7523-7530	6.4	12

72	Self-Assembly of β Peptides: Insight from the Pair and Many-Body Free Energy of Association. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13551-13556	3.8	11
71	Effect of secondary structure on the self-assembly of amphiphilic molecules: a multiscale simulation study. <i>Journal of Chemical Physics</i> , 2012 , 136, 084902	3.9	11
70	Integral equation theory for symmetric nonadditive hard sphere mixtures. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 6764-8	3.4	11
69	Molecular-dynamics simulations for nonclassical kinetics of diffusion-controlled bimolecular reactions. <i>Journal of Chemical Physics</i> , 2005 , 123, 114503	3.9	11
68	A Monte Carlo study of the self-assembly of bacteriorhodopsin. <i>Biophysical Journal</i> , 2002 , 83, 1902-16	2.9	11
67	Dynamics of Water in Gemini Surfactant-Based Lyotropic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 10860-10868	3.4	11
66	Driving Force for the Complexation of Charged Polypeptides. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1285-1292	3.4	10
65	NUMERICAL SIMULATION OF NANOINDENTATION AND PATCH CLAMP EXPERIMENTS ON MECHANOSENSITIVE CHANNELS OF LARGE CONDUCTANCE IN ESCHERICHIA COLI. <i>Experimental Mechanics</i> , 2009 , 49, 35-46	2.6	10
64	Integral equations for polymers in quenched random media. <i>Journal of Chemical Physics</i> , 2002 , 116, 5910-5911	3.9	10
63	Local structure and orientational correlations in fluids composed of linear triatomic molecules. <i>Molecular Physics</i> , 1994 , 82, 937-955	1.7	10
62	Conformational Properties of a Polymer in an Ionic Liquid: Computer Simulations and Integral Equation Theory of a Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 9091-7	3.4	9
61	Density functional theory and Monte Carlo simulations for hard sphere fluids in square and rectangular channels. <i>Journal of Chemical Physics</i> , 2002 , 116, 5795-5800	3.9	9
60	Monte Carlo simulation of semiflexible hard triatomic fluids. <i>Molecular Physics</i> , 1994 , 82, 957-972	1.7	9
59	Structure of room temperature ionic liquids. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 414020	1.8	8
58	Sequence dependent self-assembly of beta-peptides: Insights from a coarse-grained model. <i>Journal of Chemical Physics</i> , 2010 , 132, 065103	3.9	8
57	Computer simulations of protein diffusion in compartmentalized cell membranes. <i>Biophysical Journal</i> , 2009 , 97, 472-9	2.9	8
56	Sequence-directed organization of beta-peptides in self-assembled monolayers. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9379-85	3.4	8
55	Dynamics of probes in model glassy matrices. <i>Physical Review Letters</i> , 2006 , 97, 145503	7.4	8

54	Dynamics of fluids near the consolute critical point: a molecular-dynamics study of the Widom-Rowlinson mixture. <i>Journal of Chemical Physics</i> , 2005 , 122, 244506	3.9	8
53	Structural and thermodynamic properties of a freely-jointed Yukawa hard-sphere chain fluid. <i>Journal of Molecular Liquids</i> , 2001 , 92, 85-96	6	8
52	Integral equation theory for the structure of DNA solutions. <i>Journal of Chemical Physics</i> , 2002 , 116, 5308-9	3.9	8
51	Integral equation theory for the surface segregation from blends of linear and star polymers. <i>Computational and Theoretical Polymer Science</i> , 2000 , 10, 115-123		8
50	The effect of acid-base equilibria on the fractional charge and conformational properties of polyelectrolyte solutions. <i>Journal of Chemical Physics</i> , 2001 , 114, 2830-2838	3.9	8
49	Thermodynamics and local structure of vinyl polymer melts. <i>Journal of Chemical Physics</i> , 1995 , 103, 2229-2236	3.9	8
48	Dynamics of two-dimensional and quasi-two-dimensional polymers. <i>Journal of Chemical Physics</i> , 2013 , 138, 234904	3.9	7
47	The influence of the polymer chain stiffness on tracer diffusion in polymeric matrices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011 , 49, 818-825	2.6	7
46	Anisotropic diffusion of elongated and aligned polymer chains in a nematic solvent. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19799-803	3.4	7
45	The behavior of fluids near solutes: a density functional theory and computer simulation study. <i>Journal of Chemical Physics</i> , 2004 , 121, 4203-9	3.9	7
44	Jagannathan and Yethiraj Reply:. <i>Physical Review Letters</i> , 2005 , 94,	7.4	7
43	Integral equation theory for two-dimensional polymer melts. <i>Journal of Chemical Physics</i> , 2005 , 122, 094910	3.9	7
42	The Driving Force for the Association of Gemini Surfactants. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 3259-3265	3.4	7
41	Osmotic Pressure of Polyelectrolyte Solutions with Salt: Grand Canonical Monte Carlo Simulation Studies. <i>Macromolecules</i> , 2015 , 48, 7370-7377	5.5	6
40	The behavior of salt-free polyelectrolyte solutions at charged surfaces. <i>Progress in Organic Coatings</i> , 2003 , 47, 331-336	4.8	6
39	Integral equation theory of randomly coupled multiblock copolymer melts: effect of block size on the phase behavior. <i>Journal of Chemical Physics</i> , 2005 , 123, 214901	3.9	6
38	A Transferable Polarizable Force Field for Urea Crystals and Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 7475-7483	3.4	6
37	Importance of hydrophobic traps for proton diffusion in lyotropic liquid crystals. <i>Journal of Chemical Physics</i> , 2016 , 144, 094705	3.9	6

36	Dynamics of water confined in lyotropic liquid crystals: Molecular dynamics simulations of the dynamic structure factor. <i>Journal of Chemical Physics</i> , 2016 , 144, 084504	3.9	6
35	A simulation method for the phase diagram of complex fluid mixtures. <i>Journal of Chemical Physics</i> , 2018 , 148, 244903	3.9	6
34	The effect of crowder charge in a model polymer-colloid system for macromolecular crowding: Polymer structure and dynamics. <i>Journal of Chemical Physics</i> , 2017 , 147, 114902	3.9	5
33	Permeation of a hard sphere fluid into a quenched matrix. <i>Journal of Chemical Physics</i> , 2007 , 126, 034704	3.9	5
32	Why Lithium Ions Stick to Some Anions and Not Others. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4447-4455	3.4	5
31	Sequence-dependent pKa shift induced by molecular self-assembly: insights from computer simulation. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 491-5	3.4	4
30	Osmotic pressure of isotropic solutions of rodlike polymers. <i>Journal of Chemical Physics</i> , 2003 , 118, 3904-3905	3.9	4
29	Equations of state for square well chain fluids using the generalized flory approach. <i>Fluid Phase Equilibria</i> , 1993 , 83, 313-322	2.5	4
28	Deep Eutectic Solvents: Molecular Simulations with a First-Principles Polarizable Force Field. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 7177-7186	3.4	4
27	Coupling between the Dynamics of Water and Surfactants in Lyotropic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 5048-5057	3.4	3
26	Nematic ordering of hard rods under strong confinement in a dense array of nanoposts. <i>Physical Review E</i> , 2020 , 101, 032705	2.4	3
25	Counterion-Regulated Dynamics of Water Confined in Lyotropic Liquid Crystalline Morphologies. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 2408-2413	3.4	3
24	More than Virtual Reality: Important New Physical Insights in Simulations of Biomolecules and Synthetic Polymers. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6294	3.4	3
23	Weighted Density Approximation for Polymer Melts. <i>ACS Symposium Series</i> , 1996 , 274-285	0.4	3
22	Phase Behavior of Poly(ethylene oxide) in Room Temperature Ionic Liquids: A Molecular Simulation and Deep Neural Network Study. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9230-9238	3.4	3
21	Liquid-Liquid Phase Separation As the Second Step of Complex Coacervation. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 3023-3031	3.4	3
20	Non-universality of the dynamic exponent in two-dimensional random media. <i>Scientific Reports</i> , 2019 , 9, 251	4.9	2
19	Can Polymer Chains Cross Each Other and Still Be Entangled?. <i>Macromolecules</i> , 2019 , 52, 2000-2006	5.5	2

18	Proton Diffusion through Bilayer Pores. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9247-9259	3.4	2
17	Nonlinear feedback control of a class of nonlinear systems. <i>Electronics Letters</i> , 1987 , 23, 18-20	1.1	2
16	Ion-Specific Confined Water Dynamics in Convex Nanopores of Gemini Surfactant Lyotropic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 10031-10043	3.4	2
15	Solvation Induced Ring Puckering Effect in Fluorinated Prolines and Its Inclusion in Classical Force Fields. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 5899-5906	3.4	1
14	The Periodic Table. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 5837-5848	2.8	1
13	The JPC Periodic Table. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17063-17074	3.8	1
12	The JPC Periodic Table. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4051-4062	6.4	1
11	Response to Comment on Molecular simulation and continuum mechanics study of simple fluids in nonisothermal planar Couette flows[J. Chem. Phys. 111, 10730 (1999)]. <i>Journal of Chemical Physics</i> , 1999 , 111, 10732-10733	3.9	1
10	IDENTIFICATION AND FEEDBACK CONTROL OF NONLINEAR SYSTEMS. <i>Chemical Engineering Communications</i> , 1988 , 71, 1-22	2.2	1
9	Phase behavior of continuous-space systems: A supervised machine learning approach.. <i>Journal of Chemical Physics</i> , 2020 , 153, 064904	3.9	1
8	Palit et'al. Reply. <i>Physical Review Letters</i> , 2019 , 123, 239802	7.4	1
7	Effect of diffusion constant on the morphology of dendrite growth in lithium metal batteries. <i>Journal of Chemical Physics</i> , 2021 , 154, 234705	3.9	0
6	The effect of explicit counterion binding on the transference number of polyelectrolyte solutions.. <i>Journal of Chemical Physics</i> , 2022 , 156, 104901	3.9	0
5	Fast estimation of ion-pairing for screening electrolytes: A cluster can approximate a bulk liquid.. <i>Journal of Chemical Physics</i> , 2022 , 156, 054801	3.9	
4	Chemically realistic coarse-grained models for polyelectrolyte solutions.. <i>Journal of Chemical Physics</i> , 2022 , 156, 094902	3.9	
3	A Tribute to Carol K. Hall. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 11341-11342	3.4	
2	Static Structure and Chain Conformations in Polyelectrolyte Solutions 1999 , 393-405		
1	Theory and Simulations of Polymers at Surfaces 1999 , 379-392		

