## Carol K Hall

#### List of Publications by Citations

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258 9,649 55 87 g-index

266 10,302 4.5 6.32 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
258	Polymer-induced phase separations in nonaqueous colloidal suspensions. <i>Journal of Colloid and Interface Science</i> , <b>1983</b> , 96, 251-267	9.3	543
257	Molecular dynamics simulations of spontaneous fibril formation by random-coil peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 16180-5	11.5	325
256	High density Monte Carlo simulations of chain molecules: Bulk equation of state and density profile near walls. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 3168-3174	3.9	274
255	Equation of state for chain molecules: Continuous-space analog of Flory theory. <i>Journal of Chemical Physics</i> , <b>1986</b> , 85, 4108-4115	3.9	229
254	A new equation of state for athermal chains. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 1841-1855	3.9	227
253	Equilibrium thermodynamics of homopolymers and clusters: Molecular dynamics and Monte Carlo simulations of systems with square-well interactions. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 10691-107	0 <b>8</b> 9	181
252	Conformational state relaxation in polymers: Time-correlation functions. <i>Journal of Chemical Physics</i> , <b>1982</b> , 77, 3275-3282	3.9	180
251	First-Order Disorder-to-Order Transition in an Isolated Homopolymer Model. <i>Physical Review Letters</i> , <b>1996</b> , 77, 2822-2825	7.4	167
250	An experimental and theoretical study of phase transitions in the polystyrene latex and hydroxyethylcellulose system. <i>Journal of Colloid and Interface Science</i> , <b>1986</b> , 109, 161-171	9.3	167
249	alpha-helix formation: discontinuous molecular dynamics on an intermediate-resolution protein model. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 44, 344-60	4.2	156
248	Monte Carlo Simulation of Off-Lattice Polymer Chains: Effective Pair Potentials in Dilute Solution. <i>Macromolecules</i> , <b>1994</b> , 27, 5399-5412	5.5	151
247	Wrapping of nanoparticles by membranes. Advances in Colloid and Interface Science, 2014, 208, 214-24	14.3	146
246	Prediction of gas adsorption in 5a zeolites using Monte Carlo simulation. <i>AICHE Journal</i> , <b>1991</b> , 37, 769-7	7596	131
245	Monte-Carlo simulation of polymers confined between flat plates. <i>Macromolecules</i> , <b>1990</b> , 23, 1865-1877	<b>2</b> 5.5	130
244	Computer Simulation of Block Copolymer/Nanoparticle Composites. <i>Macromolecules</i> , <b>2005</b> , 38, 3007-30	1565	129
243	Amyloid Oligomers: A Joint Experimental/Computational Perspective on Alzheimerß Disease, Parkinsonß Disease, Type II Diabetes, and Amyotrophic Lateral Sclerosis. <i>Chemical Reviews</i> , <b>2021</b> , 121, 2545-2647	68.1	128
242	Molecular Dynamics for Polymeric Fluids Using Discontinuous Potentials. <i>Journal of Computational Physics</i> , <b>1997</b> , 134, 16-30	4.1	116

### (1991-2014)

241	Molecular description of the LCST behavior of an elastin-like polypeptide. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3522-30	6.9	109
240	Propane and propylene sorption in solid polymer electrolytes based on poly(ethylene oxide) and silver salts. <i>Journal of Membrane Science</i> , <b>2001</b> , 182, 1-12	9.6	109
239	Protein refolding versus aggregation: computer simulations on an intermediate-resolution protein model. <i>Journal of Molecular Biology</i> , <b>2001</b> , 312, 187-202	6.5	108
238	Extending the PRIME model for protein aggregation to all 20 amino acids. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2010</b> , 78, 2950-60	4.2	98
237	The calorimetric criterion for a two-state process revisited. <i>Protein Science</i> , <b>1999</b> , 8, 1064-74	6.3	90
236	Phase separations induced in aqueous colloidal suspensions by dissolved polymer. <i>Faraday Discussions of the Chemical Society</i> , <b>1983</b> , 76, 189		90
235	Influence of polymer molecular weight and temperature on phase composition in aqueous two-phase systems. <i>Fluid Phase Equilibria</i> , <b>1991</b> , 61, 243-262	2.5	89
234	Spontaneous fibril formation by polyalanines; discontinuous molecular dynamics simulations. Journal of the American Chemical Society, <b>2006</b> , 128, 1890-901	16.4	87
233	Effect of denaturant and protein concentrations upon protein refolding and aggregation: a simple lattice model. <i>Protein Science</i> , <b>1998</b> , 7, 2642-52	6.3	83
232	Solvent effects on the conformational transition of a model polyalanine peptide. <i>Protein Science</i> , <b>2004</b> , 13, 2909-24	6.3	82
231	Monte Carlo simulations and integral equation theory for microscopic correlations in polymeric fluids. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 797-807	3.9	82
230	Monte Carlo simulation of hard chainflard sphere mixtures in slitlike pores. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 4827-4837	3.9	81
229	Kinetics of fibril formation by polyalanine peptides. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 9074-82	5.4	80
228	Interfacial tension of polyethyleneglycol-dextran-water systems: influence of temperature and polymer molecular weight. <i>Journal of Biotechnology</i> , <b>1990</b> , 16, 279-296	3.7	80
227	SiteBite correlations in short chain fluids. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 4453-4461	3.9	79
226	On the pressure equation for chain molecules. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 664-674	3.9	79
225	Protein partitioning at the isoelectric point: influence of polymer molecular weight and concentration and protein size. <i>Biotechnology and Bioengineering</i> , <b>1991</b> , 38, 986-94	4.9	77
224	Integral equation theory for the adsorption of chain fluids in slitlike pores. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 3749-3755	3.9	76

223	Molecular-dynamics simulation results for the pressure of hard-chain fluids. <i>Molecular Physics</i> , <b>1990</b> , 71, 541-559	1.7	76
222	Generalized Flory equations of state for square-well chains. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 8494-	8596	75
221	Effects of Composition and Matrix Polarity on Network Development in Organogels of Poly(ethylene glycol) and Dibenzylidene Sorbitol. <i>Langmuir</i> , <b>2003</b> , 19, 6004-6013	4	74
220	Computer simulation of copolymer phase behavior. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 10329-1033	83.9	71
219	Solid[Iquid phase equilibrium for binary Lennard-Jones mixtures. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 11433-11444	3.9	70
218	Theory and simulation of hard-chain mixtures: Equations of state, mixing properties, and density profiles near hard walls. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 4481-4501	3.9	70
217	Assembly of a tetrameric alpha-helical bundle: computer simulations on an intermediate-resolution protein model. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 44, 376-91	4.2	69
216	Statistical-mechanical model of protein precipitation by nonionic polymer. <i>AICHE Journal</i> , <b>1990</b> , 36, 151	7 <sub>3</sub> .16528	3 69
215	Isostructural phase transitions due to core collapse. I. A one-dimensional model. <i>Journal of Chemical Physics</i> , <b>1976</b> , 65, 2161-2171	3.9	65
214	Side-chain interactions determine amyloid formation by model polyglutamine peptides in molecular dynamics simulations. <i>Biophysical Journal</i> , <b>2006</b> , 90, 4574-84	2.9	62
213	Phase diagrams describing fibrillization by polyalanine peptides. <i>Biophysical Journal</i> , <b>2004</b> , 87, 4122-34	2.9	61
212	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> , <b>1991</b> , 95, 1999-2	.003	61
211	Assembly and kinetic folding pathways of a tetrameric beta-sheet complex: molecular dynamics simulations on simplified off-lattice protein models. <i>Biophysical Journal</i> , <b>2004</b> , 86, 31-49	2.9	60
210	Interaction between colloids in solutions containing dissolved polymer. <i>Journal of Colloid and Interface Science</i> , <b>1992</b> , 151, 102-117	9.3	60
209	Phase diagram for stimulus-responsive materials containing dipolar colloidal particles. <i>Physical Review E</i> , <b>2008</b> , 77, 031401	2.4	59
208	Dynamic phase transitions in thin ferromagnetic films. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	59
207	Square-well diatomics: Bulk equation of state, density profiles near walls, virial coefficients and coexistence properties. <i>Molecular Physics</i> , <b>1991</b> , 72, 619-641	1.7	59
206	Self-assembly of surfactants in a supercritical solvent from lattice Monte Carlo simulations. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1171-1184	3.9	58

205	Equation of state for athermal lattice chains. Journal of Chemical Physics, 1986, 85, 3023-3026	3.9	58	
204	Spontaneous formation of twisted A#16-22) fibrils in large-scale molecular-dynamics simulations. <i>Biophysical Journal</i> , <b>2011</b> , 101, 2493-501	2.9	55	
203	Effects of chain length on the aggregation of model polyglutamine peptides: molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2007</b> , 66, 96-109	4.2	54	
202	Molecular dynamics study of entangled hard-chain fluids. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 5616-5	563 <i>3</i>	54	
201	Monte Carlo simulation of the equilibrium partitioning of chain fluids between a bulk and a pore. <i>Molecular Physics</i> , <b>1991</b> , 73, 503-515	1.7	52	
200	Phase Transitions in Two-Dimensional Lattice Gases of Hard-Core Molecules with Long-Range Attractions. <i>Physical Review A</i> , <b>1973</b> , 7, 1679-1689	2.6	52	
199	LCST Behavior is Manifested in a Single Molecule: Elastin-Like polypeptide (VPGVG)n. <i>Biomacromolecules</i> , <b>2016</b> , 17, 111-8	6.9	50	
198	Theory of precipitation of protein mixtures by nonionic polymer. <i>AICHE Journal</i> , <b>1992</b> , 38, 573-591	3.6	49	
197	The phase-change behavior of hydrogen in niobium and in niobium lanadium alloys. <i>Journal of Chemical Physics</i> , <b>1982</b> , 77, 6223-6235	3.9	47	
196	Monte Carlo calculation of the osmotic second virial coefficient of off-lattice athermal polymers. <i>Macromolecules</i> , <b>1992</b> , 25, 3979-3983	5.5	44	
195	Phase diagram of two-dimensional systems of dipole-like colloids. Soft Matter, 2012, 8, 1521-1531	3.6	43	
194	Capillary Bridging as a Tool for Assembling Discrete Clusters of Patchy Particles. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 14948-14953	16.4	42	
193	Effects of macromolecular crowding on amyloid beta (16-22) aggregation using coarse-grained simulations. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 13513-26	3.4	42	
192	Molecular dynamics study of transport coefficients for hard-chain fluids. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 1057-1073	3.9	42	
191	Binding Preferences of Amino Acids for Gold Nanoparticles: A Molecular Simulation Study. <i>Langmuir</i> , <b>2016</b> , 32, 7888-96	4	41	
190	Allosteric effects of gold nanoparticles on human serum albumin. <i>Nanoscale</i> , <b>2017</b> , 9, 380-390	7.7	40	
189	Thermodynamic phase diagram of amyloid-¶16-22) peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 2091-2096	11.5	40	
188	Molecular dynamics simulations of DPPC bilayers using "LIME", a new coarse-grained model. Journal of Physical Chemistry B, <b>2013</b> , 117, 5019-30	3.4	40	

187	Fluids and fluid mixtures containing square-well diatomics: Equations of state and canonical molecular dynamics simulation. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 3930-3946	3.9	40
186	Designing pattern-recognition surfaces for selective adsorption of copolymer sequences using lattice monte carlo simulation. <i>Physical Review Letters</i> , <b>2005</b> , 94, 078103	7.4	40
185	Structural Conversion of A#7-42 Peptides from Disordered Oligomers to U-Shape Protofilaments via Multiple Kinetic Pathways. <i>PLoS Computational Biology</i> , <b>2015</b> , 11, e1004258	5	39
184	The molecular structure and intermolecular interactions of 1,3:2,4-dibenzylidene-D-sorbitol. <i>Molecular Physics</i> , <b>2003</b> , 101, 3017-3027	1.7	39
183	Computer simulation study of probe-target hybridization in model DNA microarrays: effect of probe surface density and target concentration. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 144912	3.9	38
182	Physical organogels composed of amphiphilic block copolymers and 1,3:2,4-dibenzylidene-D-sorbitol. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 267, 509-18	9.3	38
181	Nanofibrillar Networks in Poly(ethyl methacrylate) and Its Silica Nanocomposites. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 11633-11642	3.4	37
180	Aggregation of At 17-36) in the Presence of Naturally Occurring Phenolic Inhibitors Using Coarse-Grained Simulations. <i>Journal of Molecular Biology</i> , <b>2017</b> , 429, 3893-3908	6.5	36
179	Spontaneous formation of annular structures observed in molecular dynamics simulations of polyglutamine peptides. <i>Computational Biology and Chemistry</i> , <b>2006</b> , 30, 215-8	3.6	36
178	Monte Carlo simulations of complete phase diagrams for binary LennardIIones mixtures. <i>Fluid Phase Equilibria</i> , <b>2001</b> , 182, 37-46	2.5	36
177	Modeling nanoparticle wrapping or translocation in bilayer membranes. <i>Nanoscale</i> , <b>2015</b> , 7, 14505-14	7.7	35
176	Molecular simulation of complete phase diagrams for binary mixtures. AICHE Journal, 2001, 47, 1664-10	67,56	35
175	Binary hard chain mixtures. I. Generalized Flory equations of state. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7669-7682	3.9	35
174	Application of a Modified Generalized Flory Dimer Theory to Normal Alkanes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1994</b> , 33, 1290-1298	3.9	35
173	Molecular insights into the surface-catalyzed secondary nucleation of amyloid-∰A∰by the peptide fragment A⊕ <i>Science Advances</i> , <b>2019</b> , 5, eaav8216	14.3	34
172	Exchange anisotropy and the dynamic phase transition in thin ferromagnetic Heisenberg films. <i>Physical Review E</i> , <b>2003</b> , 68, 046115	2.4	34
171	Local structure of fluids containing chain-like molecules: Polymer reference interaction site model with a Yukawa closure. <i>Journal of Chemical Physics</i> , <b>1990</b> , 93, 5315-5321	3.9	34
170	Self-consistent field model of polymer adsorption: generalized formulation and ground-state solution. <i>Macromolecules</i> , <b>1988</b> , 21, 1075-1085	5.5	34

169	Multidirectional colloidal assembly in concurrent electric and magnetic fields. Soft Matter, 2016, 12, 774	4 <del>3.</del> <b>6</b> 8	34
168	Self-assembly in binary mixtures of dipolar colloids: molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 064511	3.9	33
167	Discontinuous Molecular Dynamics Studies of End-Linked Polymer Networks. <i>Macromolecules</i> , <b>1998</b> , 31, 5861-5879	5.5	33
166	Estimation of mutual diffusion coefficients in polymer/penetrant systems using nonequilibrium molecular dynamics simulations. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 1621-1632	3.9	33
165	Equations of state for star polymers. <i>Journal of Chemical Physics</i> , <b>1991</b> , 94, 3943-3948	3.9	33
164	Gelation and Cross-Linking in Multifunctional Thiol and Multifunctional Acrylate Systems Involving an in Situ Comonomer Catalyst. <i>Macromolecules</i> , <b>2014</b> , 47, 821-829	5.5	32
163	Bicontinuous gels formed by self-assembly of dipolar colloid particles. <i>Soft Matter</i> , <b>2010</b> , 6, 480-484	3.6	32
162	Theory and simulation of the swelling of polymer gels. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 404-418	3.9	32
161	Large-scale molecular dynamics study of entangled hard-chain fluids. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1316-1319	7.4	32
160	Advancing Peptide-Based Biorecognition Elements for Biosensors Using in-Silico Evolution. <i>ACS Sensors</i> , <b>2018</b> , 3, 1024-1031	9.2	31
159	Thermodynamics and stability of a beta-sheet complex: molecular dynamics simulations on simplified off-lattice protein models. <i>Protein Science</i> , <b>2004</b> , 13, 40-53	6.3	31
158	Thermodynamic perturbation theory for fused hard-sphere and hard-disk chain fluids. <i>Journal of Chemical Physics</i> , <b>1995</b> , 103, 2688-2695	3.9	31
157	Influence of temperature on formation of perfect tau fragment fibrils using PRIME20/DMD simulations. <i>Protein Science</i> , <b>2012</b> , 21, 1514-27	6.3	29
156	Computer simulation study of amyloid fibril formation by palindromic sequences in prion peptides. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2011</b> , 79, 2132-45	4.2	29
155	Protein adsorption on nanoparticles: model development using computer simulation. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 414019	1.8	28
154	Experimental analysis of protein precipitation by polyethylene glycol and comparison with theory. <i>Fluid Phase Equilibria</i> , <b>1992</b> , 78, 297-321	2.5	28
153	Two-dimensional colloidal networks induced by a uni-axial external field. Soft Matter, 2013, 9, 2518	3.6	26
152	Computer simulation study of molecular recognition in model DNA microarrays. <i>Biophysical Journal</i> , <b>2006</b> , 91, 2227-36	2.9	26

151	Lattice Monte Carlo simulations of phase separation and micellization in supercritical CO2/surfactant systems: effect of CO2 density. <i>Langmuir</i> , <b>2004</b> , 20, 514-23	4	26
150	Effect of rate of chemical or thermal renaturation on refolding and aggregation of a simple lattice protein. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 80, 823-34	4.9	26
149	Behavior of starlike polymers between walls. <i>Macromolecules</i> , <b>1991</b> , 24, 709-713	5.5	26
148	Computer simulation of the competition between protein folding and aggregation. <i>Fluid Phase Equilibria</i> , <b>1999</b> , 158-160, 87-93	2.5	25
147	Generalized Flory equations of state for hard heteronuclear chain molecules. <i>Journal of Chemical Physics</i> , <b>1996</b> , 104, 5220-5233	3.9	25
146	Generalized flory equation of state for hard chainflard monomer mixtures of unequal segment diameter. <i>Chemical Engineering Science</i> , <b>1994</b> , 49, 2793-2804	4.4	25
145	Modeling of phase separation in PEGBalt aqueous two-phase systems. <i>AICHE Journal</i> , <b>1996</b> , 42, 3508-357	<b>232</b> 6	24
144	On equations of state for hard chain fluids. <i>Molecular Physics</i> , <b>1993</b> , 80, 469-477	1.7	24
143	Second Virial Coefficient Calculations for Square-Well Chain Molecules. <i>Macromolecules</i> , <b>1994</b> , 27, 2744-	- <b>3</b> 7556	24
142	A lattice model of gas-gas equilibria in binary mixtures. <i>Physica</i> , <b>1974</b> , 78, 1-21		24
142 141	A lattice model of gas-gas equilibria in binary mixtures. <i>Physica</i> , <b>1974</b> , 78, 1-21  Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59	2.9	24
·	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of</i>	2.9	
141	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of</i>		23
141 140	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7478-7492  N-terminal Prion Protein Peptides (PrP(120-144)) Form Parallel In-register Sheets via Multiple Nucleation-dependent Pathways. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 22093-22105  Anatomy of a selectively coassembled Sheet peptide nanofiber. <i>Proceedings of the National</i>	3.9	23
141 140 139	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7478-7492  N-terminal Prion Protein Peptides (PrP(120-144)) Form Parallel In-register \$\mathbb{B}\$ heets via Multiple Nucleation-dependent Pathways. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 22093-22105  Anatomy of a selectively coassembled \$\mathbb{B}\$ heet peptide nanofiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4710-4717	3.9 5.4	23 22 22
141 140 139	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7478-7492  N-terminal Prion Protein Peptides (PrP(120-144)) Form Parallel In-register Sheets via Multiple Nucleation-dependent Pathways. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 22093-22105  Anatomy of a selectively coassembled Sheet peptide nanofiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4710-4717	3.9 5.4 11.5	23 22 22 21
141 140 139 138	Folding thermodynamics of model four-strand antiparallel beta-sheet proteins. <i>Biophysical Journal</i> , <b>2002</b> , 82, 646-59  Generalized Flory equations of state for copolymers modeled as square-well chain fluids. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7478-7492  N-terminal Prion Protein Peptides (PrP(120-144)) Form Parallel In-register Sheets via Multiple Nucleation-dependent Pathways. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 22093-22105  Anatomy of a selectively coassembled Sheet peptide nanofiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4710-4717  Amino acid signature enables proteins to recognize modified tRNA. <i>Biochemistry</i> , <b>2014</b> , 53, 1125-33  Bridging the gap between homopolymer and protein models: A discontinuous molecular dynamics	3.9 5.4 11.5	23 22 22 21 21

### (2020-2002)

133	Equilibria between solid, liquid, and vapor phases in binary Lennardllones mixtures. <i>Fluid Phase Equilibria</i> , <b>2002</b> , 194-197, 197-206	2.5	20	
132	Computational approaches to fibril structure and formation. <i>Methods in Enzymology</i> , <b>2006</b> , 412, 338-65	1.7	19	
131	Effects of hydrophobic macromolecular crowders on amyloid ₹16-22) aggregation. <i>Biophysical Journal</i> , <b>2015</b> , 109, 124-34	2.9	18	•
130	The design of a peptide sequence to inhibit HIV replication: a search algorithm combining Monte Carlo and self-consistent mean field techniques. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2014</b> , 32, 1523-36	3.6	18	
129	Micellar behavior in supercritical solventBurfactant systems from lattice Monte Carlo simulations. <i>Fluid Phase Equilibria</i> , <b>2002</b> , 194-197, 233-247	2.5	18	•
128	Fused hard-sphere chain molecules: Comparison between Monte Carlo simulation for the bulk pressure and generalized Flory theories. <i>Journal of Chemical Physics</i> , <b>1995</b> , 102, 6212-6223	3.9	18	
127	The Effects of Salts on the Lower Consolute Boundary of a Nonionic Micellar Solution. <i>Journal of Colloid and Interface Science</i> , <b>1996</b> , 184, 456-68	9.3	18	
126	Tailoring the Chemical Modification of Chitosan Hydrogels to Fine-Tune the Release of a Synergistic Combination of Chemotherapeutics. <i>Biomacromolecules</i> , <b>2019</b> , 20, 3126-3141	6.9	17	
125	Pressure-Dependent Photon Correlation Spectroscopic Investigation of Poly(propylene oxide) near the Glass Transition. <i>Macromolecules</i> , <b>1997</b> , 30, 2052-2057	5.5	17	
124	Linear dependence on chain length for the thermodynamic properties of tangent hard-sphere chains. <i>Molecular Physics</i> , <b>1995</b> , 86, 1157-1172	1.7	17	
123	Scaling in the ideal Bose gas. <i>Journal of Statistical Physics</i> , <b>1975</b> , 13, 157-172	1.5	17	
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