Huan-Xiang Zhou

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.

277	16,626	69	118
papers	citations	h-index	g-index
345 ext. papers	18,365 ext. citations	6.1 avg, IF	7.42 L-index

#	Paper	IF	Citations
277	Preferential Interactions of a Crowder Protein with the Specific Binding Site of a Native Protein Complex <i>Journal of Physical Chemistry Letters</i> , 2022 , 792-800	6.4	O
276	Binding free energy decomposition and multiple unbinding paths of buried ligands in a PreQ1 riboswitch. <i>PLoS Computational Biology</i> , 2021 , 17, e1009603	5	О
275	Shape recovery of deformed biomolecular droplets: Dependence on condensate viscoelasticity. Journal of Chemical Physics, 2021 , 155, 145102	3.9	O
274	Shear relaxation governs fusion dynamics of biomolecular condensates. <i>Nature Communications</i> , 2021 , 12, 5995	17.4	9
273	Macromolecular regulators have matching effects on the phase equilibrium and interfacial tension of biomolecular condensates. <i>Protein Science</i> , 2021 , 30, 1360-1370	6.3	5
272	Effects of Cholesterol on the Partitioning of a Drug Molecule in Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 5338-5345	3.4	1
271	Characterizing protein kinase A (PKA) subunits as macromolecular regulators of PKA RIH liquid-liquid phase separation. <i>Journal of Chemical Physics</i> , 2021 , 154, 221101	3.9	2
270	Fuzzy Association of an Intrinsically Disordered Protein with Acidic Membranes. <i>Jacs Au</i> , 2021 , 1, 66-78		3
269	Viscoelasticity of biomolecular condensates conforms to the Jeffreys model. <i>Journal of Chemical Physics</i> , 2021 , 154, 041103	3.9	9
268	Machine Learning-Enabled Pipeline for Large-Scale Virtual Drug Screening. <i>Journal of Chemical Information and Modeling</i> , 2021 , 61, 4236-4244	6.1	4
267	Removing Thermostat Distortions of Protein Dynamics in Constant-Temperature Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 5920-5932	6.4	1
266	Functional stability of water wire-carbonyl interactions in an ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 11908-11915	11.5	18
265	Out-of-Register Parallel Eheets and Antiparallel Eheets Coexist in 150-kDa Oligomers Formed by Amyloid-(11-42). <i>Journal of Molecular Biology</i> , 2020 , 432, 4388-4407	6.5	15
264	Sequence-Dependent Correlated Segments in the Intrinsically Disordered Region of ChiZ. <i>Biomolecules</i> , 2020 , 10,	5.9	4
263	Tug of War between Condensate Phases in a Minimal Macromolecular System. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8848-8861	16.4	15
262	Membrane Association and Functional Mechanism of Synaptotagmin-1 in Triggering Vesicle Fusion. Biophysical Journal, 2020 , 119, 1255-1265	2.9	3
261	Determinants for Fusion Speed of Biomolecular Droplets. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20837-20840	16.4	19

(2018-2020)

260	Profiling SARS-CoV-2 Main Protease (M) Binding to Repurposed Drugs Using Molecular Dynamics Simulations in Classical and Neural Network-Trained Force Fields. <i>ACS Combinatorial Science</i> , 2020 , 22, 826-832	3.9	21
259	Determination of Condensate Material Properties from Droplet Deformation. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8372-8379	3.4	10
258	Determinants for Fusion Speed of Biomolecular Droplets. <i>Angewandte Chemie</i> , 2020 , 132, 21023-21026	3.6	0
257	Calculation of Second Virial Coefficients of Atomistic Proteins Using Fast Fourier Transform. Journal of Physical Chemistry B, 2019 , 123, 8203-8215	3.4	8
256	Three archetypical classes of macromolecular regulators of protein liquid-liquid phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19474-19483	11.5	47
255	Transfer Free Energies of Test Proteins Into Crowded Protein Solutions Have Simple Dependence on Crowder Concentration. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 39	5.6	4
254	Designed Mutations Alter the Binding Pathways of an Intrinsically Disordered Protein. <i>Scientific Reports</i> , 2019 , 9, 6172	4.9	11
253	Influenza A M2 Channel Clustering at High Protein/Lipid Ratios: Viral Budding Implications. <i>Biophysical Journal</i> , 2019 , 116, 1075-1084	2.9	21
252	Both Ligands and Macromolecular Crowders Preferentially Bind to Closed Conformations of Maltose Binding Protein. <i>Biochemistry</i> , 2019 , 58, 2208-2217	3.2	3
251	Fatty Acids Compete with Alin Binding to Serum Albumin by Quenching Its Conformational Flexibility. <i>Biophysical Journal</i> , 2019 , 116, 248-257	2.9	11
250	Hinge-Shift Mechanism Modulates Allosteric Regulations in Human Pin1. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5623-5629	3.4	20
249	Using the fast fourier transform in binding free energy calculations. <i>Journal of Computational Chemistry</i> , 2018 , 39, 621-636	3.5	14
248	Electrostatic Interactions in Protein Structure, Folding, Binding, and Condensation. <i>Chemical Reviews</i> , 2018 , 118, 1691-1741	68.1	290
247	Liquid-Liquid Phase Separation of Patchy Particles Illuminates Diverse Effects of Regulatory Components on Protein Droplet Formation. <i>Scientific Reports</i> , 2018 , 8, 6728	4.9	65
246	Why Do Disordered and Structured Proteins Behave Differently in Phase Separation?. <i>Trends in Biochemical Sciences</i> , 2018 , 43, 499-516	10.3	62
245	Intrinsically Disordered Protein Exhibits Both Compaction and Expansion under Macromolecular Crowding. <i>Biophysical Journal</i> , 2018 , 114, 1067-1079	2.9	40
244	Atomistic Modeling of Intrinsically Disordered Proteins Under Polyethylene Glycol Crowding: Quantitative Comparison with Experimental Data and Implication of Protein-Crowder Attraction. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11262-11270	3.4	11
243	A conserved glycine harboring disease-associated mutations permits NMDA receptor slow deactivation and high Ca permeability. <i>Nature Communications</i> , 2018 , 9, 3748	17.4	22

242	Temperature-induced collapse of a disordered peptide observed by three sampling methods in molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2018 , 149, 072313	3.9	12
241	Gating Motions and Stationary Gating Properties of Ionotropic Glutamate Receptors: Computation Meets Electrophysiology. <i>Accounts of Chemical Research</i> , 2017 , 50, 814-822	24.3	3
240	Advancing NMDA Receptor Physiology by Integrating Multiple Approaches. <i>Trends in Neurosciences</i> , 2017 , 40, 129-137	13.3	16
239	Divergent roles of a peripheral transmembrane segment in AMPA and NMDA receptors. <i>Journal of General Physiology</i> , 2017 , 149, 661-680	3.4	23
238	Rate Constants and Mechanisms of Protein-Ligand Binding. <i>Annual Review of Biophysics</i> , 2017 , 46, 105-	1 30 .1	39
237	Structural modeling for the open state of an NMDA receptor. <i>Journal of Structural Biology</i> , 2017 , 200, 369-375	3.4	11
236	Protein folding, binding, and droplet formation in cell-like conditions. <i>Current Opinion in Structural Biology</i> , 2017 , 43, 28-37	8.1	34
235	Unidirectional allostery in the regulatory subunit RIFacilitates efficient deactivation of protein kinase A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E67	7 76:E 6	7 83
234	Mechanism and rate constants of the Cdc42 GTPase binding with intrinsically disordered effectors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 674-85	4.2	13
233	Fast Method for Computing Chemical Potentials and Liquid-Liquid Phase Equilibria of Macromolecular Solutions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 8164-74	3.4	29
232	Challenges in structural approaches to cell modeling. <i>Journal of Molecular Biology</i> , 2016 , 428, 2943-64	6.5	36
231	The Transmembrane Domain Mediates Tetramerization of ⊞Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptors. <i>Journal of Biological Chemistry</i> , 2016 , 291, 6595-606	5.4	17
230	Protein Allostery and Conformational Dynamics. <i>Chemical Reviews</i> , 2016 , 116, 6503-15	68.1	209
229	Differential Binding of Rimantadine Enantiomers to Influenza A M2 Proton Channel. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1506-9	16.4	24
228	Allosteric activation of SENP1 by SUMO1 Egrasp domain involves a dock-and-coalesce mechanism. <i>ELife</i> , 2016 , 5,	8.9	7
227	Prediction of homoprotein and heteroprotein complexes by protein docking and template-based modeling: A CASP-CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84 Suppl 1, 323-48	4.2	111
226	A Fast Method for Computing Chemical Potentials and Phase Equilibria of Macromolecular Mixtures. <i>Biophysical Journal</i> , 2016 , 110, 386a-387a	2.9	
225	Semiclosed Conformations of the Ligand-Binding Domains of NMDA Receptors during Stationary Gating. <i>Biophysical Journal</i> , 2016 , 111, 1418-1428	2.9	17

(2014-2016)

224	Electrostatic effects on the folding stability of FKBP12. <i>Protein Engineering, Design and Selection</i> , 2016 , 29, 301-308	1.9	5	
223	Dynamically Driven Protein Allostery Exhibits Disparate Responses for Fast and Slow Motions. <i>Biophysical Journal</i> , 2015 , 108, 2771-4	2.9	20	
222	Dynamic Short Hydrogen Bonds in Histidine Tetrad of Full-Length M2 Proton Channel Reveal Tetrameric Structural Heterogeneity and Functional Mechanism. <i>Structure</i> , 2015 , 23, 2300-2308	5.2	40	
221	Disorder-to-Order Transition of an Active-Site Loop Mediates the Allosteric Activation of Sortase A. <i>Biophysical Journal</i> , 2015 , 109, 1706-15	2.9	24	
220	Mechanism-Based Mathematical Model for Gating of Ionotropic Glutamate Receptors. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10934-40	3.4	12	
219	Reduced curvature of ligand-binding domain free-energy surface underlies partial agonism at NMDA receptors. <i>Structure</i> , 2015 , 23, 228-236	5.2	27	
218	Structure of CrgA, a cell division structural and regulatory protein from Mycobacterium tuberculosis, in lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E119-26	11.5	39	
217	Two pathways mediate interdomain allosteric regulation in pin1. Structure, 2015, 23, 237-247	5.2	56	
216	Theoretical frameworks for multiscale modeling and simulation. <i>Current Opinion in Structural Biology</i> , 2014 , 25, 67-76	8.1	28	
215	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014 , 82, 620-32	4.2	43	
214	General rules for the arrangements and gating motions of pore-lining helices in homomeric ion channels. <i>Nature Communications</i> , 2014 , 5, 4641	17.4	12	
213	Further Development of the FFT-based Method for Atomistic Modeling of Protein Folding and Binding under Crowding: Optimization of Accuracy and Speed. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2824-2835	6.4	21	
212	SAXS/SANS probe of intermolecular interactions in concentrated protein solutions. <i>Biophysical Journal</i> , 2014 , 106, 771-3	2.9	6	
211	Both protein dynamics and ligand concentration can shift the binding mechanism between conformational selection and induced fit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10197-202	11.5	61	
210	Mechanical coupling maintains the fidelity of NMDA receptor-mediated currents. <i>Nature Neuroscience</i> , 2014 , 17, 914-22	25.5	75	
209	Distinct mechanisms of a phosphotyrosyl peptide binding to two SH2 domains. <i>Journal of Theoretical and Computational Chemistry</i> , 2014 , 13, 1440003	1.8	2	
208	Multidimensional reaction rate theory with anisotropic diffusion. <i>Journal of Chemical Physics</i> , 2014 , 141, 204106	3.9	16	
207	Binding of MgtR, a Salmonella transmembrane regulatory peptide, to MgtC, a Mycobacterium tuberculosis virulence factor: a structural study. <i>Journal of Molecular Biology</i> , 2014 , 426, 436-46	6.5	14	

206	Design rules for selective binding of nuclear localization signals to minor site of importin $\Box PLoS$ ONE, 2014 , 9, e91025	3.7	11
205	Simulation and Modeling of Crowding Effects on the Thermodynamic and Kinetic Properties of Proteins with Atomic Details. <i>Biophysical Reviews</i> , 2013 , 5, 207-215	3.7	23
204	Molecular structure of RADA16-I designer self-assembling peptide nanofibers. ACS Nano, 2013, 7, 7562	?-712 5.7	101
203	An FFT-based method for modeling protein folding and binding under crowding: benchmarking on ellipsoidal and all-atom crowders. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9,	6.4	25
202	Modeling protein association mechanisms and kinetics. <i>Current Opinion in Structural Biology</i> , 2013 , 23, 887-93	8.1	70
201	Effects of Macromolecular Crowding on the Conformational Ensembles of Disordered Proteins. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4,	6.4	44
200	Solid-state NMR evidence for Ehairpin structure within MAX8 designer peptide nanofibers. <i>Biophysical Journal</i> , 2013 , 105, 222-30	2.9	21
199	An NMDA receptor gating mechanism developed from MD simulations reveals molecular details underlying subunit-specific contributions. <i>Biophysical Journal</i> , 2013 , 104, 2170-81	2.9	36
198	Influence of crowded cellular environments on protein folding, binding, and oligomerization: biological consequences and potentials of atomistic modeling. <i>FEBS Letters</i> , 2013 , 587, 1053-61	3.8	127
197	Influences of membrane mimetic environments on membrane protein structures. <i>Annual Review of Biophysics</i> , 2013 , 42, 361-92	21.1	199
196	Polymer crowders and protein crowders act similarly on protein folding stability. <i>FEBS Letters</i> , 2013 , 587, 394-7	3.8	56
195	PIPE: A Suite of Web Servers for Predictions Ranging From Protein Structure to Binding Kinetics. <i>Biophysical Reviews</i> , 2013 , 5, 41-46	3.7	1
194	Modeling the membrane environment has implications for membrane protein structure and function: influenza A M2 protein. <i>Protein Science</i> , 2013 , 22, 381-94	6.3	41
193	calculations and validation of the pH-dependent structures of the His37-Trp41 quartet, the heart of acid activation and proton conductance in the M2 protein of Influenza A virus. <i>Chemical Science</i> , 2013 , 4, 2776-2787	9.4	18
192	Folding free energy surfaces of three small proteins under crowding: validation of the postprocessing method by direct simulation. <i>Physical Biology</i> , 2013 , 10, 045001	3	11
191	Inter- and intrasubunit interactions between transmembrane helices in the open state of P2X receptor channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4045-54	11.5	41
190	Using the concept of transient complex for affinity predictions in CAPRI rounds 20-27 and beyond. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 2229-36	4.2	7
189	Poisson-Boltzmann Calculations: van der Waals or Molecular Surface?. <i>Communications in Computational Physics</i> , 2013 , 13, 1-12	2.4	38

(2011-2013)

188	Competitive interactions of ligands and macromolecular crowders with maltose binding protein. PLoS ONE, 2013 , 8, e74969	3.7	22	
187	Community-wide evaluation of methods for predicting the effect of mutations on protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 1980-7	4.2	78	
186	Intrinsic disorder: signaling via highly specific but short-lived association. <i>Trends in Biochemical Sciences</i> , 2012 , 37, 43-8	10.3	109	
185	Familial hypertrophic cardiomyopathy related E180G mutation increases flexibility of human cardiac & tropomyosin. <i>FEBS Letters</i> , 2012 , 586, 3503-7	3.8	22	
182	M2 protein from influenza A: from multiple structures to biophysical and functional insights. **Current Opinion in Virology, 2012 , 2, 128-33	7.5	51	
183	A method for computing association rate constants of atomistically represented proteins under macromolecular crowding. <i>Physical Biology</i> , 2012 , 9, 066008	3	23	
182	Glycines: role in Helical membrane protein structures and a potential indicator of native conformation. <i>Biochemistry</i> , 2012 , 51, 4779-89	3.2	54	
181	Contrasting factors on the kinetic path to protein complex formation diminish the effects of crowding agents. <i>Biophysical Journal</i> , 2012 , 103, 1011-9	2.9	35	
180	Recent progress in structure-based anti-influenza drug design. <i>Drug Discovery Today</i> , 2012 , 17, 1111-20	3 8.8	58	
179	Size matters in activation/inhibition of ligand-gated ion channels. <i>Trends in Pharmacological Sciences</i> , 2012 , 33, 482-93	13.2	13	
178	Persistence length of human cardiac tropomyosin measured by single molecule direct probe microscopy. <i>PLoS ONE</i> , 2012 , 7, e39676	3.7	24	
177	Rate constants and mechanisms of intrinsically disordered proteins binding to structured targets. Physical Chemistry Chemical Physics, 2012 , 14, 10466-76	3.6	64	
176	A common model for cytokine receptor activation: combined scissor-like rotation and self-rotation of receptor dimer induced by class I cytokine. <i>PLoS Computational Biology</i> , 2012 , 8, e1002427	5	20	
175	Prediction and dissection of widely-varying association rate constants of actin-binding proteins. PLoS Computational Biology, 2012 , 8, e1002696	5	9	
174	Gating mechanism of a P2X4 receptor developed from normal mode analysis and molecular dynamics simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4140-5	11.5	47	
173	BDflex: a method for efficient treatment of molecular flexibility in calculating protein-ligand binding rate constants from brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2012 , 137, 13	5105	15	
172	Role of diffusion in the kinetics of reversible enzyme-catalyzed reactions. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 925-928	1.2	14	
171	Rationalizing 5000-fold differences in receptor-binding rate constants of four cytokines. <i>Biophysical Journal</i> , 2011 , 101, 1175-83	2.9	17	

170	Atomistic mechanism for the activation and desensitization of an AMPA-subtype glutamate receptor. <i>Nature Communications</i> , 2011 , 2, 354	17.4	42
169	Drug sensitivity, drug-resistant mutations, and structures of three conductance domains of viral porins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 538-46	3.8	15
168	Community-wide assessment of protein-interface modeling suggests improvements to design methodology. <i>Journal of Molecular Biology</i> , 2011 , 414, 289-302	6.5	114
167	Structural models of protein-DNA complexes based on interface prediction and docking. <i>Current Protein and Peptide Science</i> , 2011 , 12, 531-9	2.8	4
166	Automated prediction of protein association rate constants. <i>Structure</i> , 2011 , 19, 1744-51	5.2	91
165	Influence of solubilizing environments on membrane protein structures. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 117-25	10.3	169
164	A theory for the proton transport of the influenza virus M2 protein: extensive test against conductance data. <i>Biophysical Journal</i> , 2011 , 100, 912-21	2.9	31
163	Diffusion-influenced ligand binding to buried sites in macromolecules and transmembrane channels. <i>Journal of Chemical Physics</i> , 2011 , 135, 075103	3.9	27
162	Mechanistic insight into the h(2)o/d (2)o isotope effect in the proton transport of the influenza virus m2 protein. <i>Journal of Membrane Biology</i> , 2011 , 244, 93-6	2.3	10
161	Q&A: What is biophysics?. <i>BMC Biology</i> , 2011 , 9, 13	7-3	4
160	A solvable model for the diffusion and reaction of neurotransmitters in a synaptic junction. <i>BMC Biophysics</i> , 2011 , 4, 5	Ο	4
159	Equivalence of two approaches for modeling ion permeation through a transmembrane channel with an internal binding site. <i>Journal of Chemical Physics</i> , 2011 , 134, 135101	3.9	3
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158	Theory and simulation of diffusion-influenced, stochastically gated ligand binding to buried sites. Journal of Chemical Physics, 2011, 135, 145101	3.9	8
158 157	Theory and simulation of diffusion-influenced, stochastically gated ligand binding to buried sites.		8 78
	Theory and simulation of diffusion-influenced, stochastically gated ligand binding to buried sites. Journal of Chemical Physics, 2011, 135, 145101 Full reconstruction of a vectorial protein folding pathway by atomic force microscopy and	3·9 5·4	
157	Theory and simulation of diffusion-influenced, stochastically gated ligand binding to buried sites. <i>Journal of Chemical Physics</i> , 2011 , 135, 145101 Full reconstruction of a vectorial protein folding pathway by atomic force microscopy and molecular dynamics simulations <i>Journal of Biological Chemistry</i> , 2011 , 286, 8708 Rapid search for specific sites on DNA through conformational switch of nonspecifically bound	3·9 5·4	78
157 156	Theory and simulation of diffusion-influenced, stochastically gated ligand binding to buried sites. <i>Journal of Chemical Physics</i> , 2011 , 135, 145101 Full reconstruction of a vectorial protein folding pathway by atomic force microscopy and molecular dynamics simulations <i>Journal of Biological Chemistry</i> , 2011 , 286, 8708 Rapid search for specific sites on DNA through conformational switch of nonspecifically bound proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 86 Theory and simulation on the kinetics of protein-ligand binding coupled to conformational change.	3.9 5.4 55 1-6 5	78 72

(2009-2010)

152	Insight into the mechanism of the influenza A proton channel from a structure in a lipid bilayer. <i>Science</i> , 2010 , 330, 509-12	33.3	375
151	Equilibrium sampling for biomolecules under mechanical tension. <i>Biophysical Journal</i> , 2010 , 98, 733-40	2.9	5
150	From induced fit to conformational selection: a continuum of binding mechanism controlled by the timescale of conformational transitions. <i>Biophysical Journal</i> , 2010 , 98, L15-7	2.9	140
149	The folding transition-state ensemble of a four-helix bundle protein: helix propensity as a determinant and macromolecular crowding as a probe. <i>Biophysical Journal</i> , 2010 , 98, 2273-80	2.9	22
148	Diffusion-Influenced Transport of Ions across a Transmembrane Channel with an Internal Binding Site. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1973-1976	6.4	16
147	Method to Predict Crowding Effects by Postprocessing Molecular Dynamics Trajectories: Application to the Flap Dynamics of HIV-1 Protease. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 107-1	fb4	39
146	Rate theories for biologists. <i>Quarterly Reviews of Biophysics</i> , 2010 , 43, 219-93	7	107
145	Generalized fundamental measure theory for atomistic modeling of macromolecular crowding. <i>Physical Review E</i> , 2010 , 81, 031919	2.4	26
144	A Less Invasive Approach to Rheology Measurements. <i>Physics Magazine</i> , 2010 , 3,	1.1	4
143	The gates of ion channels and enzymes. <i>Trends in Biochemical Sciences</i> , 2010 , 35, 179-85	10.3	71
142	Application of Biased Metropolis Algorithms: From protons to proteins. <i>Mathematics and Computers in Simulation</i> , 2010 , 80, 1056-1067	3.3	6
141	Selection of near-native poses in CAPRI rounds 13-19. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010 , 78, 3166-73	4.2	9
140	Speeding by a crowd. <i>Physics Magazine</i> , 2010 , 3,	1.1	2
139	Dissection of the high rate constant for the binding of a ribotoxin to the ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6974-9	11.5	25
138	Correction for Qin and Zhou, Dissection of the high rate constant for the binding of a ribotoxin to the ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12208-12208	11.5	78
137	Blocking effect of an immuno-suppressive agent, cynarin, on CD28 of T-cell receptor. <i>Pharmaceutical Research</i> , 2009 , 26, 375-81	4.5	23
136	Nonadditive effects of mixed crowding on protein stability. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 77, 133-8	4.2	81
135	Inverse tuning of metal binding affinity and protein stability by altering charged coordination residues in designed calcium binding proteins. <i>PMC Biophysics</i> , 2009 , 2, 11		8

134	Crowding effects of membrane proteins. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7995-8005	3.4	47
133	Atomistic modeling of macromolecular crowding predicts modest increases in protein folding and binding stability. <i>Biophysical Journal</i> , 2009 , 97, 12-9	2.9	93
132	Effect of macromolecular crowding on protein binding stability: modest stabilization and significant biological consequences. <i>Biophysical Journal</i> , 2009 , 97, 906-11	2.9	87
131	Theory of free energy and entropy in noncovalent binding. <i>Chemical Reviews</i> , 2009 , 109, 4092-107	68.1	291
130	Conformational heterogeneity of the M2 proton channel and a structural model for channel activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13311-6	11.5	99
129	Fundamental aspects of protein-protein association kinetics. <i>Chemical Reviews</i> , 2009 , 109, 839-60	68.1	528
128	Solid-state NMR and MD simulations of the antiviral drug amantadine solubilized in DMPC bilayers. <i>Biophysical Journal</i> , 2008 , 94, 1295-302	2.9	44
127	A method to determine dielectric constants in nonhomogeneous systems: application to biological membranes. <i>Biophysical Journal</i> , 2008 , 94, 1185-93	2.9	78
126	Prediction of protein solubility from calculation of transfer free energy. <i>Biophysical Journal</i> , 2008 , 95, 2601-9	2.9	40
125	The effects of macromolecular crowding on the mechanical stability of protein molecules. <i>Protein Science</i> , 2008 , 17, 2156-66	6.3	56
124	A secondary gate as a mechanism for inhibition of the M2 proton channel by amantadine. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 7977-9	3.4	95
123	Protein folding in confined and crowded environments. <i>Archives of Biochemistry and Biophysics</i> , 2008 , 469, 76-82	4.1	124
122	Prediction of salt and mutational effects on the association rate of U1A protein and U1 small nuclear RNA stem/loop II. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5955-60	3.4	22
121	On the Dielectric Boundary in Poisson-Boltzmann Calculations. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 507-514	6.4	26
120	Accurate Calculations of Binding, Folding, and Transfer Free Energies by a Scaled Generalized Born Method. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 1733-1744	6.4	9
119	Modeling Protein B rotein and Protein Mucleic Acid Interactions: Structure, Thermodynamics, and Kinetics. <i>Annual Reports in Computational Chemistry</i> , 2008 , 67-87	1.8	3
118	Spontaneous conformational change and toxin binding in alpha7 acetylcholine receptor: insight into channel activation and inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8280-5	11.5	41
117	Calculation of free-energy differences and potentials of mean force by a multi-energy gap method. Journal of Chemical Physics, 2008 , 128, 114104	3.9	4

(2007-2008)

116	Protein association with circular DNA: rate enhancement by nonspecific binding. <i>Journal of Chemical Physics</i> , 2008 , 128, 115108	3.9	10
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