

# Sanbo Qin

## List of Publications by Year in descending order

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46  
papers

1,989  
citations

257357

24  
h-index

254106

43  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preferential Interactions of a Crowder Protein with the Specific Binding Site of a Native Protein Complex. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 792-800.	2.1	8
2	Characterizing protein kinase A (PKA) subunits as macromolecular regulators of PKA RI liquid-liquid phase separation. <i>Journal of Chemical Physics</i> , 2021, 154, 221101.	1.2	6
3	Calculation of Second Virial Coefficients of Atomistic Proteins Using Fast Fourier Transform. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8203-8215.	1.2	15
4	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.	1.6	8
5	Both Ligands and Macromolecular Crowders Preferentially Bind to Closed Conformations of Maltose Binding Protein. <i>Biochemistry</i> , 2019, 58, 2208-2217.	1.2	7
6	Why Do Disordered and Structured Proteins Behave Differently in Phase Separation?. <i>Trends in Biochemical Sciences</i> , 2018, 43, 499-516.	3.7	114
7	Intrinsically Disordered Protein Exhibits Both Compaction and Expansion under Macromolecular Crowding. <i>Biophysical Journal</i> , 2018, 114, 1067-1079.	0.2	67
8	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.	1.2	13
9	Protein folding, binding, and droplet formation in cell-like conditions. <i>Current Opinion in Structural Biology</i> , 2017, 43, 28-37.	2.6	45
10	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, 323-348.	1.5	148
11	Fast Method for Computing Chemical Potentials and Liquid-Liquid Phase Equilibria of Macromolecular Solutions. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8164-8174.	1.2	41
12	Blind prediction of interfacial water positions in CAPRI. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 620-632.	1.5	50
13	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.	2.3	27
14	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.	1.5	26
15	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, 4633-4643.	2.3	30
16	Effects of Macromolecular Crowding on the Conformational Ensembles of Disordered Proteins. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3429-3434.	2.1	50
17	PI2PE: a suite of web servers for predictions ranging from protein structure to binding kinetics. <i>Biophysical Reviews</i> , 2013, 5, 41-46.	1.5	2
18	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.	0.8	12

#	ARTICLE	IF	CITATIONS
19	Using the concept of transient complex for affinity predictions in CAPRI rounds 20â€“27 and beyond. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2229-2236.	1.5	7
20	Community-wide evaluation of methods for predicting the effect of mutations on protein-protein interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1980-1987.	1.5	87
21	Prediction and Dissection of Widely-Varying Association Rate Constants of Actin-Binding Proteins. <i>PLoS Computational Biology</i> , 2012, 8, e1002696.	1.5	13
22	A method for computing association rate constants of atomistically represented proteins under macromolecular crowding. <i>Physical Biology</i> , 2012, 9, 066008.	0.8	26
23	Contrasting Factors on the Kinetic Path to Protein Complex Formation Diminish the Effects of Crowding Agents. <i>Biophysical Journal</i> , 2012, 103, 1011-1019.	0.2	39
24	Rationalizing 5000-Fold Differences in Receptor-Binding Rate Constants of Four Cytokines. <i>Biophysical Journal</i> , 2011, 101, 1175-1183.	0.2	20
25	Community-Wide Assessment of Protein-Interface Modeling Suggests Improvements to Design Methodology. <i>Journal of Molecular Biology</i> , 2011, 414, 289-302.	2.0	131
26	Structural Models of Protein-DNA Complexes Based on Interface Prediction and Docking. <i>Current Protein and Peptide Science</i> , 2011, 12, 531-539.	0.7	5
27	Automated Prediction of Protein Association Rate Constants. <i>Structure</i> , 2011, 19, 1744-1751.	1.6	111
28	Selection of near-native poses in CAPRI rounds 13â€“19. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 3166-3173.	1.5	10
29	Effects of Macromolecular Crowding on Protein Conformational Changes. <i>PLoS Computational Biology</i> , 2010, 6, e1000833.	1.5	82
30	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, 107-110.	2.1	39
31	Generalized fundamental measure theory for atomistic modeling of macromolecular crowding. <i>Physical Review E</i> , 2010, 81, 031919.	0.8	30
32	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, 6974-6979.	3.3	28
33	Atomistic Modeling of Macromolecular Crowding Predicts Modest Increases in Protein Folding and Binding Stability. <i>Biophysical Journal</i> , 2009, 97, 12-19.	0.2	104
34	Effect of Macromolecular Crowding on Protein Binding Stability: Modest Stabilization and Significant Biological Consequences. <i>Biophysical Journal</i> , 2009, 97, 906-911.	0.2	101
35	A novel procedure for identification of the folding/unfolding patterns of dimeric proteins. <i>Journal of Theoretical Biology</i> , 2008, 250, 461-467.	0.8	0
36	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, 5955-5960.	1.2	24

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37	Modeling Protein-Protein and Protein-Nucleic Acid Interactions: Structure, Thermodynamics, and Kinetics. Annual Reports in Computational Chemistry, 2008, , 67-87.	0.9	3
38	meta-PPISP: a meta web server for protein-protein interaction site prediction. Bioinformatics, 2007, 23, 3386-3387.	1.8	162
39	PI2PE: protein interface/interior prediction engine. Nucleic Acids Research, 2007, 35, W357-W362.	6.5	32
40	Interaction-site prediction for protein complexes: a critical assessment. Bioinformatics, 2007, 23, 2203-2209.	1.8	161
41	Do electrostatic interactions destabilize protein-nucleic acid binding?. Biopolymers, 2007, 86, 112-118.	1.2	46
42	A holistic approach to protein docking. Proteins: Structure, Function and Bioinformatics, 2007, 69, 743-749.	1.5	20
43	Ca <sup>2+</sup> Binding Effects on the C2 Domain Conformation of Human Cytosolic Phospholipase A2. Protein and Peptide Letters, 2006, 13, 91-94.	0.4	0
44	Mechanism of inhibition of Ca <sup>2+</sup> -transport activity of sarcoplasmic reticulum Ca <sup>2+</sup> -ATPase by anisodamine. Indian Journal of Biochemistry and Biophysics, 2006, 43, 351-9.	0.2	0
45	Predicting protein secondary structure and solvent accessibility with an improved multiple linear regression method. Proteins: Structure, Function and Bioinformatics, 2005, 61, 473-480.	1.5	18
46	Thermal and conformational stability of Ssh10b protein from archaeon Sulfolobus shibattaе. Biochemical Journal, 2004, 382, 433-440.	1.7	21