

Xiaoqin Zou

List of Publications by Year in descending order

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73
papers

4,552
citations

117453

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h-index

106150

65
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76
all docs

76
docs citations

76
times ranked

4438
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances and Challenges in Protein-Ligand Docking. <i>International Journal of Molecular Sciences</i> , 2010, 11, 3016-3034.	1.8	418
2	Scoring functions and their evaluation methods for proteinâ€“ligand docking: recent advances and future directions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12899.	1.3	380
3	Ensemble docking of multiple protein structures: Considering protein structural variations in molecular docking. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 66, 399-421.	1.5	314
4	An iterative knowledgeâ€“based scoring function for proteinâ€“protein recognition. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 557-579.	1.5	242
5	Inclusion of Solvation in Ligand Binding Free Energy Calculations Using the Generalized-Born Model. <i>Journal of the American Chemical Society</i> , 1999, 121, 8033-8043.	6.6	228
6	An iterative knowledge-based scoring function to predict proteinâ€“ligand interactions: I. Derivation of interaction potentials. <i>Journal of Computational Chemistry</i> , 2006, 27, 1866-1875.	1.5	167
7	Challenges, Applications, and Recent Advances of Protein-Ligand Docking in Structure-Based Drug Design. <i>Molecules</i> , 2014, 19, 10150-10176.	1.7	163
8	Prediction of homoprotein and heteroprotein complexes by protein docking and templateâ€“based modeling: A CASPâ€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 323-348.	1.5	148
9	An iterative knowledge-based scoring function to predict proteinâ€“ligand interactions: II. Validation of the scoring function. <i>Journal of Computational Chemistry</i> , 2006, 27, 1876-1882.	1.5	141
10	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
11	Inclusion of Solvation and Entropy in the Knowledge-Based Scoring Function for Proteinâ€“Ligand Interactions. <i>Journal of Chemical Information and Modeling</i> , 2010, 50, 262-273.	2.5	118
12	A knowledge-based scoring function for protein-RNA interactions derived from a statistical mechanics-based iterative method. <i>Nucleic Acids Research</i> , 2014, 42, e55-e55.	6.5	110
13	Rational Truncation of an RNA Aptamer to Prostate-Specific Membrane Antigen Using Computational Structural Modeling. <i>Nucleic Acid Therapeutics</i> , 2011, 21, 299-314.	2.0	106
14	Docking-based inverse virtual screening: methods, applications, and challenges. <i>Biophysics Reports</i> , 2018, 4, 1-16.	0.2	99
15	Blind prediction of homoâ€“and heteroâ€“protein complexes: The CASP13â€“CAPRI experiment. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1200-1221.	1.5	99
16	Efficient molecular docking of NMR structures: Application to HIV-1 protease. <i>Protein Science</i> , 2006, 16, 43-51.	3.1	93
17	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
18	Fully Blind Docking at the Atomic Level for Protein-Peptide Complex Structure Prediction. <i>Structure</i> , 2016, 24, 1842-1853.	1.6	86

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19	Ion sensing in the RCK1 domain of BK channels. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18700-18705.	3.3	78
20	Prediction of protein assemblies, the next frontier: The <sc>CASP14</sc>CAPRI experiment. Proteins: Structure, Function and Bioinformatics, 2021, 89, 1800-1823.	1.5	73
21	The Two ATP Binding Sites of Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Play Distinct Roles in Gating Kinetics and Energetics. Journal of General Physiology, 2006, 128, 413-422.	0.9	71
22	Design, docking, and evaluation of multiple libraries against multiple targets. Proteins: Structure, Function and Bioinformatics, 2001, 42, 296-318.	1.5	66
23	MDockPP: A hierarchical approach for protein-protein docking and its application to CAPRI rounds 15-19. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3096-3103.	1.5	65
24	Statistical mechanics-based method to extract atomic distance-dependent potentials from protein structures. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2648-2661.	1.5	60
25	An inverse docking approach for identifying new potential anti-cancer targets. Journal of Molecular Graphics and Modelling, 2011, 29, 795-799.	1.3	60
26	MDockPeP: An <i>ab initio</i> protein-peptide docking server. Journal of Computational Chemistry, 2018, 39, 2409-2413.	1.5	59
27	Identifying the molecular target sites for CFTR potentiators GLPG1837 and VX-770. Journal of General Physiology, 2019, 151, 912-928.	0.9	57
28	Pairwise GB/SA Scoring Function for Structure-based Drug Design. Journal of Physical Chemistry B, 2004, 108, 5453-5462.	1.2	56
29	CFTR Gating II. Journal of General Physiology, 2005, 125, 377-394.	0.9	52
30	Blind prediction of interfacial water positions in CAPRI. Proteins: Structure, Function and Bioinformatics, 2014, 82, 620-632.	1.5	50
31	Electrostatics of Ligand Binding: Parametrization of the Generalized Born Model and Comparison with the Poisson-Boltzmann Approach. Journal of Physical Chemistry B, 2006, 110, 9304-9313.	1.2	48
32	A nonredundant structure dataset for benchmarking protein-RNA computational docking. Journal of Computational Chemistry, 2013, 34, 311-318.	1.5	46
33	Two-stage electro-mechanical coupling of a KV channel in voltage-dependent activation. Nature Communications, 2020, 11, 676.	5.8	46
34	High affinity ATP/ADP analogues as new tools for studying CFTR gating. Journal of Physiology, 2005, 569, 447-457.	1.3	45
35	Predicting peptide binding sites on protein surfaces by clustering chemical interactions. Journal of Computational Chemistry, 2015, 36, 49-61.	1.5	41
36	Molecular modeling of the heterodimer of human CFTR's nucleotide-binding domains using a protein-protein docking approach. Journal of Molecular Graphics and Modelling, 2009, 27, 822-828.	1.3	31

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37	Scoring and Lessons Learned with the CSAR Benchmark Using an Improved Iterative Knowledge-Based Scoring Function. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2097-2106.	2.5	31
38	ATP Hydrolysis-Coupled Gating of CFTR Chloride Channels: Structure and Function. <i>Biochemistry</i> , 2001, 40, 5579-5586.	1.2	22
39	A PIP2 substitute mediates voltage sensor-pore coupling in KCNQ activation. <i>Communications Biology</i> , 2020, 3, 385.	2.0	22
40	Binding interface and impact on protease cleavage for an RNA aptamer to HIV-1 reverse transcriptase. <i>Nucleic Acids Research</i> , 2020, 48, 2709-2722.	6.5	22
41	Construction and Test of Ligand Decoy Sets Using MDock: Community Structure Activity Resource Benchmarks for Binding Mode Prediction. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 2107-2114.	2.5	21
42	Iterative Knowledge-Based Scoring Functions Derived from Rigid and Flexible Decoy Structures: Evaluation with the 2013 and 2014 CSAR Benchmarks. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1013-1021.	2.5	21
43	TRIC-A Channel Maintains Store Calcium Handling by Interacting With Type 2 Ryanodine Receptor in Cardiac Muscle. <i>Circulation Research</i> , 2020, 126, 417-435.	2.0	19
44	Inclusion of the orientational entropic effect and low-resolution experimental information for protein-protein docking in Critical Assessment of PRredicted Interactions (CAPRI). <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2183-2191.	1.5	18
45	Automated Large-Scale File Preparation, Docking, and Scoring: Evaluation of ITScore and STScore Using the 2012 Community Structure Activity Resource Benchmark. <i>Journal of Chemical Information and Modeling</i> , 2013, 53, 1905-1914.	2.5	18
46	Improving binding mode and binding affinity predictions of docking by ligand-based search of protein conformations: evaluation in D3R grand challenge 2015. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 689-699.	1.3	15
47	Structural basis of prostate-specific membrane antigen recognition by the A9g RNA aptamer. <i>Nucleic Acids Research</i> , 2020, 48, 11130-11145.	6.5	15
48	Computation and Simulation of the Structural Characteristics of the Kidney Urea Transporter and Behaviors of Urea Transport. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5124-5131.	1.2	13
49	PepPro: A Nonredundant Structure Data Set for Benchmarking Peptide-Protein Computational Docking. <i>Journal of Computational Chemistry</i> , 2020, 41, 362-369.	1.5	13
50	Predicting Protein-Peptide Complex Structures by Accounting for Peptide Flexibility and the Physicochemical Environment. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 27-39.	2.5	13
51	Lessons learned from participating in D3R 2016 Grand Challenge 2: compounds targeting the farnesoid X receptor. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 103-111.	1.3	12
52	Multiscale Generalized Born Modeling of Ligand Binding Energies for Virtual Database Screening. <i>Journal of Physical Chemistry B</i> , 2009, 113, 11793-11799.	1.2	11
53	Mean-Force Scoring Functions for Protein-Ligand Binding. <i>Annual Reports in Computational Chemistry</i> , 2010, , 280-296.	0.9	11
54	Performance of MDockPP in CAPRI rounds 28-29 and 31-35 including the prediction of water-mediated interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 424-434.	1.5	11

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55	Predicting proteinâ€“ligand binding modes for CELPP and GC3: workflows and insight. <i>Journal of Computer-Aided Molecular Design</i> , 2019, 33, 367-374.	1.3	11
56	A Bayesian statistical approach of improving knowledgeâ€“based scoring functions for proteinâ€“ligand interactions. <i>Journal of Computational Chemistry</i> , 2014, 35, 932-943.	1.5	10
57	Carbohydrate-protein interactions: advances and challenges. <i>Communications in Information and Systems</i> , 2021, 21, 147-163.	0.3	9
58	The three-way junction structure of the HIV-1 PBS-segment binds host enzyme important for viral infectivity. <i>Nucleic Acids Research</i> , 2021, 49, 5925-5942.	6.5	9
59	INI1/SMARCB1 Rpt1 domain mimics TAR RNA in binding to integrase to facilitate HIV-1 replication. <i>Nature Communications</i> , 2021, 12, 2743.	5.8	9
60	MDock: An Ensemble Docking Suite for Molecular Docking, Scoring and In Silico Screening. <i>Methods in Pharmacology and Toxicology</i> , 2015, , 153-166.	0.1	8
61	MDock: A Suite for Molecular Inverse Docking and Target Prediction. <i>Methods in Molecular Biology</i> , 2021, 2266, 313-322.	0.4	7
62	Performance of human and server prediction in <sc>CAPRI</sc> rounds 38â€“45. <i>Proteins: Structure, Function and Bioinformatics</i> , 2020, 88, 1110-1120.	1.5	6
63	Modulating the voltage sensor of a cardiac potassium channel shows antiarrhythmic effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	6
64	Dissimilar Ligands Bind in a Similar Fashion: A Guide to Ligand Binding-Mode Prediction with Application to CELPP Studies. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12320.	1.8	6
65	ITScorePro: An Efficient Scoring Program for Evaluating the Energy Scores of Protein Structures for Structure Prediction. <i>Methods in Molecular Biology</i> , 2014, 1137, 71-81.	0.4	5
66	SM-TF: A structural database of small molecule-transcription factor complexes. <i>Journal of Computational Chemistry</i> , 2016, 37, 1559-1564.	1.5	4
67	MDockPeP: A Web Server for Blind Prediction of Proteinâ€“Peptide Complex Structures. <i>Methods in Molecular Biology</i> , 2020, 2165, 259-272.	0.4	4
68	A Selective Tether Recruits Activated Response Regulator CheB to Its Chemoreceptor Substrate. <i>MBio</i> , 2021, 12, e0310621.	1.8	4
69	Modeling of flux, binding and substitution of urea molecules in the urea transporter dvUT. <i>Journal of Molecular Graphics and Modelling</i> , 2017, 76, 504-511.	1.3	3
70	Rapid Identification of Inhibitors and Prediction of Ligand Selectivity for Multiple Proteins: Application to Protein Kinases. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2288-2298.	1.2	3
71	Scoring functions for protein-RNA complex structure prediction: advances, applications, and future directions. <i>Communications in Information and Systems</i> , 2020, 20, 1-22.	0.3	3
72	The Usage of ACCLUSTER for Peptide Binding Site Prediction. <i>Methods in Molecular Biology</i> , 2017, 1561, 3-9.	0.4	2

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73	MDockServer: An Efficient Docking Platform for Inverse Virtual Screening. Biophysical Journal, 2018, 114, 56a.	0.2	1