

Yifei Qi

List of Publications by Year in descending order

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254
papers

15,318
citations

36303

51
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111
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258
all docs

258
docs citations

258
times ranked

13175
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of novel inhibitors of SARS-CoV-2 main protease. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 12526-12534.	3.5	2
2	Insights into small molecule inhibitor bindings to PD-L1 with residue-specific binding free energy calculation. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 12277-12285.	3.5	1
3	HobPre: accurate prediction of human oral bioavailability for small molecules. <i>Journal of Cheminformatics</i> , 2022, 14, 1.	6.1	32
4	Discovery of novel inhibitors of CDK2 using docking and physics-based binding free energy calculation. <i>Chemical Biology and Drug Design</i> , 2022, 99, 662-673.	3.2	4
5	Computational Alanine Scanning Reveals Common Features of TCR/pMHC Recognition in HLA-DQ8-Associated Celiac Disease. <i>Methods in Molecular Biology</i> , 2022, 2385, 293-312.	0.9	0
6	<i>Ab initio</i> neural network MD simulation of thermal decomposition of a high energy material CL-20/TNT. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 11801-11811.	2.8	13
7	Mutational Effect of Some Major COVID-19 Variants on Binding of the S Protein to ACE2. <i>Biomolecules</i> , 2022, 12, 572.	4.0	8
8	HergSPred: Accurate Classification of hERG Blockers/Nonblockers with Machine-Learning Models. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1830-1839.	5.4	26
9	AA-Score: a New Scoring Function Based on Amino Acid-Specific Interaction for Molecular Docking. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 2499-2509.	5.4	11
10	SeBPPI: A Sequence-Based Protein-Protein Binding Predictor. <i>Journal of Computational Biophysics and Chemistry</i> , 2022, 21, 729-737.	1.7	2
11	Rational Design of P450 aMOx for Improving Anti-Markovnikov Selectivity Based on the "Butterfly" Model. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, .	3.5	2
12	Immune Escape Mechanisms of SARS-CoV-2 Delta and Omicron Variants against Two Monoclonal Antibodies That Received Emergency Use Authorization. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6064-6073.	4.6	14
13	Molecular basis of SMAC-XIAP binding and the effect of electrostatic polarization. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 743-752.	3.5	7
14	Alanine scanning combined with interaction entropy studying the differences of binding mechanism on HIV-1 and HIV-2 proteases with inhibitor. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 1588-1599.	3.5	5
15	Identification of three new compounds that directly target human serine hydroxymethyltransferase 2. <i>Chemical Biology and Drug Design</i> , 2021, 97, 221-230.	3.2	6
16	Inhibition mechanism and hot-spot prediction of nine potential drugs for SARS-CoV-2 M ^{pro} by large-scale molecular dynamic simulations combined with accurate binding free energy calculations. <i>Nanoscale</i> , 2021, 13, 8313-8332.	5.6	8
17	A fixed multi-site interaction charge model for an accurate prediction of the QM/MM interactions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21001-21012.	2.8	1
18	Molecular mechanism related to the binding of fluorophores to Mango-II revealed by multiple-replica molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 10636-10649.	2.8	6

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19	Cyclopentadienyl radical formation from the reaction of excited nitrogen atoms with benzene: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12408-12420.	2.8	9
20	Residue-specific binding mechanisms of PD-L1 to its monoclonal antibodies by computational alanine scanning. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15591-15600.	2.8	0
21	Multiscale polarizable coarse-graining water models on cluster-level electrostatic dipoles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8926-8935.	2.8	3
22	Engineering the biomimetic cofactors of NMNH for cytochrome P450 BM3 based on binding conformation refinement. <i>RSC Advances</i> , 2021, 11, 12036-12042.	3.6	4
23	Quantitative analysis of ACE2 binding to coronavirus spike proteins: SARS-CoV-2 vs. SARS-CoV and RaTG13. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13926-13933.	2.8	11
24	Thermodynamic Insights of Base Flipping in TNA Duplex: Force Fields, Salt Concentrations, and Free-Energy Simulation Methods. <i>CCS Chemistry</i> , 2021, 3, 1026-1039.	7.8	23
25	Computational Analysis of Residue-Specific Binding Free Energies of Androgen Receptor to Ligands. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 646524.	3.5	5
26	An electrostatic energy-based charge model for molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2021, 154, 134107.	3.0	5
27	Fragment-Based Ab Initio Molecular Dynamics Simulation for Combustion. <i>Molecules</i> , 2021, 26, 3120.	3.8	1
28	Investigation on the characteristics and mechanisms of ACE inhibitory peptides by a thorough analysis of all 8000 tripeptides via binding free energy calculation. <i>Food Science and Nutrition</i> , 2021, 9, 2943-2953.	3.4	11
29	Analysis of the binding modes of the first- and second-generation antiandrogens with respect to F876L mutation. <i>Chemical Biology and Drug Design</i> , 2021, 98, 60-72.	3.2	1
30	DeepBSP: a Machine Learning Method for Accurate Prediction of Protein-Ligand Docking Structures. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 2231-2240.	5.4	44
31	Automatically Constructed Neural Network Potentials for Molecular Dynamics Simulation of Zinc Proteins. <i>Frontiers in Chemistry</i> , 2021, 9, 692200.	3.6	10
32	Ultra-coarse-graining modeling of liquid water. <i>Journal of Chemical Physics</i> , 2021, 154, 224506.	3.0	3
33	Anchor-Locker Binding Mechanism of the Coronavirus Spike Protein to Human ACE2: Insights from Computational Analysis. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3529-3542.	5.4	26
34	MolGpka: A Web Server for Small Molecule pK _a Prediction Using a Graph-Convolutional Neural Network. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 3159-3165.	5.4	79
35	Investigating effects of bridging water on the binding of neuraminidase ligands using computational alanine scanning combined with interaction entropy method. <i>Journal of Molecular Liquids</i> , 2021, 336, 116214.	4.9	1
36	Rational Design of Pepsin for Enhanced Thermostability via Exploiting the Guide of Structural Weakness on Stability. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	5

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37	CHARMM-GUI Supports Hydrogen Mass Repartitioning and Different Protonation States of Phosphates in Lipopolysaccharides. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 831-839.	5.4	59
38	Computational analysis of binding free energies, hotspots and the binding mechanism of Bcl-xL/Bcl-2 binding to Bad/Bax. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2025-2037.	2.8	6
39	Introducing the effective polarizable bond (EPB) model in DNA simulations. <i>Chemical Physics Letters</i> , 2021, 785, 139160.	2.6	0
40	Computational Insights into the Binding Mechanism of OxyS sRNA with Chaperone Protein Hfq. <i>Biomolecules</i> , 2021, 11, 1653.	4.0	1
41	Automated Construction of Neural Network Potential Energy Surface: The Enhanced Self-Organizing Incremental Neural Network Deep Potential Method. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5425-5437.	5.4	6
42	Targeting mechanism for SARS-CoV-2 <i>in silico</i> : interaction and key groups of TMPRSS2 toward four potential drugs. <i>Nanoscale</i> , 2021, 13, 19218-19237.	5.6	2
43	Binding modes and conformational changes of FK506-binding protein 51 induced by inhibitor bindings: insight into molecular mechanisms based on multiple simulation technologies. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 2141-2155.	3.5	16
44	Decoding molecular mechanism of inhibitor bindings to CDK2 using molecular dynamics simulations and binding free energy calculations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 985-996.	3.5	29
45	CHARMM-GUI DEER facilitator for spin-pair distance distribution calculations and preparation of restrained-ensemble molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2020, 41, 415-420.	3.3	19
46	LLPSDB: a database of proteins undergoing liquid-liquid phase separation <i>in vitro</i> . <i>Nucleic Acids Research</i> , 2020, 48, D320-D327.	14.5	130
47	Determining Optimal Coarse-Grained Representation for Biomolecules Using Internal Cluster Validation Indexes. <i>Journal of Computational Chemistry</i> , 2020, 41, 14-20.	3.3	9
48	Theoretical understanding of the thermodynamics and interactions in transcriptional regulator TtgR-ligand binding. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1511-1524.	2.8	13
49	Binding Modes of Small-Molecule Inhibitors to the EED Pocket of PRC2. <i>ChemPhysChem</i> , 2020, 21, 263-271.	2.1	11
50	Development of a New Scoring Function for Virtual Screening: APBScore. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 6355-6365.	5.4	11
51	Complex reaction processes in combustion unraveled by neural network-based molecular dynamics simulation. <i>Nature Communications</i> , 2020, 11, 5713.	12.8	111
52	A three-point coarse-grained model of five-water cluster with permanent dipoles and quadrupoles. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26289-26298.	2.8	2
53	Double-Well Ultra-Coarse-Grained Model to Describe Protein Conformational Transitions. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6678-6689.	5.3	20
54	An Approach to Computing Solvent Reorganization Energy. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 6513-6519.	5.3	3

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55	An ab initio/RRKM study of the reaction mechanism and product branching ratios of CH ₃ OH ⁺ and CH ₃ OH ⁺⁺ dissociation. <i>Journal of Molecular Structure</i> , 2020, 1217, 128410.	3.6	4
56	DenseCPD: Improving the Accuracy of Neural-Network-Based Computational Protein Sequence Design with DenseNet. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1245-1252.	5.4	47
57	Computational approaches to studying methylated H4K20 recognition by DNA repair factor 53BP1. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6136-6144.	2.8	11
58	Entropic effect and residue specific entropic contribution to the cooperativity in streptavidin–biotin binding. <i>Nanoscale</i> , 2020, 12, 7134-7145.	5.6	21
59	How CuCl and CuCl ₂ Insert into C–N Bonds of Diazo Compounds: An Electronic Structure and Mechanistic Study. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2029-2035.	2.5	5
60	Atomic-level reconstruction of biomolecules by a rigid-fragment- and local-frame-based (RF-LF) strategy. <i>Journal of Molecular Modeling</i> , 2020, 26, 31.	1.8	3
61	Molecular Mechanism of Selective Binding of NMS-P118 to PARP-1 and PARP-2: A Computational Perspective. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 50.	3.5	13
62	Developing an effective polarizable bond method for small molecules with application to optimized molecular docking. <i>RSC Advances</i> , 2020, 10, 15530-15540.	3.6	14
63	An Energy Optimization Strategy Based on the Perfect Conformation of Prolyl Endopeptidase for Improving Catalytic Efficiency. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 5129-5137.	5.2	8
64	An accurate free energy estimator: based on MM/PBSA combined with interaction entropy for protein–ligand binding affinity. <i>Nanoscale</i> , 2020, 12, 10737-10750.	5.6	88
65	A method for efficient calculation of thermal stability of proteins upon point mutations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8461-8466.	2.8	12
66	Accelerated Molecular Dynamics Simulation for Helical Proteins Folding in Explicit Water. <i>Frontiers in Chemistry</i> , 2019, 7, 540.	3.6	56
67	Molecular Dynamics Simulation of Zinc Ion in Water with an ab Initio Based Neural Network Potential. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6587-6595.	2.5	24
68	A Fragment Quantum Mechanical Method for Metalloproteins. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 1430-1439.	5.3	17
69	Study of SHMT2 Inhibitors and Their Binding Mechanism by Computational Alanine Scanning. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3871-3878.	5.4	21
70	Computational analysis for residue-specific CDK2-inhibitor bindings. <i>Chinese Journal of Chemical Physics</i> , 2019, 32, 134-142.	1.3	10
71	Mechanistic Studies of CO ₂ Cycloaddition Reaction Catalyzed by Amine-Functionalized Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019, 7, 615.	3.6	20
72	Drug-resistance mechanisms of three mutations in anaplastic lymphoma kinase against two inhibitors based on MM/PBSA combined with interaction entropy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20951-20964.	2.8	9

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73	A force consistent method for electrostatic energy calculation in fluctuating charge model. <i>Journal of Chemical Physics</i> , 2019, 151, 094105.	3.0	3
74	CHARMM-GUI <i>Glycan Modeler</i> for modeling and simulation of carbohydrates and glycoconjugates. <i>Glycobiology</i> , 2019, 29, 320-331.	2.5	222
75	CHARMM <i>Nanodisc Builder</i> for modeling and simulation of various nanodisc systems. <i>Journal of Computational Chemistry</i> , 2019, 40, 893-899.	3.3	42
76	End-Point Binding Free Energy Calculation with MM/PBSA and MM/GBSA: Strategies and Applications in Drug Design. <i>Chemical Reviews</i> , 2019, 119, 9478-9508.	47.7	1,064
77	Sulfur-substitution-induced base flipping in the DNA duplex. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14923-14940.	2.8	21
78	Effect of mutations on binding of ligands to guanine riboswitch probed by free energy perturbation and molecular dynamics simulations. <i>Nucleic Acids Research</i> , 2019, 47, 6618-6631.	14.5	130
79	Computational analysis of hot spots and binding mechanism in the PD-1/PD-L1 interaction. <i>RSC Advances</i> , 2019, 9, 14944-14956.	3.6	23
80	BAR-based optimum adaptive steered MD for configurational sampling. <i>Journal of Computational Chemistry</i> , 2019, 40, 1270-1289.	3.3	22
81	DeepDDG: Predicting the Stability Change of Protein Point Mutations Using Neural Networks. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 1508-1514.	5.4	146
82	Understanding the selectivity of inhibitors toward PI4KIII [±] and PI4KIII ² based molecular modeling. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22103-22112.	2.8	22
83	Formation mechanism and spectroscopy of C ₆ H radicals in extreme environments: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23044-23055.	2.8	5
84	Accurate and Efficient Calculation of Protein-Protein Binding Free Energy-Interaction Entropy with Residue Type-Specific Dielectric Constants. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 272-281.	5.4	37
85	Calculation of hot spots for protein-protein interaction in p53/PM1-MDM2/MDMX complexes. <i>Journal of Computational Chemistry</i> , 2019, 40, 1045-1056.	3.3	22
86	CHARMM-GUI <i>Membrane Builder</i> for Complex Biological Membrane Simulations with Glycolipids and Lipoglycans. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 775-786.	5.3	388
87	An efficient method for computing excess free energy of liquid. <i>Science China Chemistry</i> , 2018, 61, 135-140.	8.2	20
88	Computational Protein Design with Deep Learning Neural Networks. <i>Scientific Reports</i> , 2018, 8, 6349.	3.3	112
89	Computational Alanine Scanning with Interaction Entropy for Protein-Ligand Binding Free Energies. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1772-1780.	5.3	78
90	Multiple Conformational States Contribute to the 3D Structure of a Glucan Decasaccharide: A Combined SAXS and MD Simulation Study. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1169-1175.	2.6	9

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91	A Coupled Ionization-Conformational Equilibrium Is Required To Understand the Properties of Ionizable Residues in the Hydrophobic Interior of Staphylococcal Nuclease. <i>Journal of the American Chemical Society</i> , 2018, 140, 1639-1648.	13.7	22
92	Crius: A novel fragmentâ€based algorithm of <i>de novo</i> substrate prediction for enzymes. <i>Protein Science</i> , 2018, 27, 1526-1534.	7.6	0
93	Assessing the performance of MM/PBSA and MM/GBSA methods. 7. Entropy effects on the performance of end-point binding free energy calculation approaches. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14450-14460.	2.8	243
94	Unfolding of a ClC chloride transporter retains memory of its evolutionary history. <i>Nature Chemical Biology</i> , 2018, 14, 489-496.	8.0	39
95	Interaction entropy for computational alanine scanning in protein-protein binding. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018, 8, e1342.	14.6	51
96	Hydrogen-bond structure dynamics in bulk water: insights from <i>ab initio</i> simulations with coupled cluster theory. <i>Chemical Science</i> , 2018, 9, 2065-2073.	7.4	98
97	The impact of interior dielectric constant and entropic change on HIV-1 complex binding free energy prediction. <i>Structural Dynamics</i> , 2018, 5, 064101.	2.3	44
98	Effect of Substituents in Different Positions of Aminothiazole Hinge-Binding Scaffolds on Inhibitorâ€CDK2 Association Probed by Interaction Entropy Method. <i>ACS Omega</i> , 2018, 3, 18052-18064.	3.5	18
99	Probing the Ion-Specific Effects at the Water/Air Interface and Water-Mediated Ion Pairing in Sodium Halide Solution with <i>Ab Initio</i> Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10202-10209.	2.6	19
100	Exploring the Reasons for Decrease in Binding Affinity of HIV-2 Against HIV-1 Protease Complex Using Interaction Entropy Under Polarized Force Field. <i>Frontiers in Chemistry</i> , 2018, 6, 380.	3.6	14
101	Functional loop dynamics of the S-component of ECF transporter FolT. <i>Molecular Physics</i> , 2018, 116, 2613-2621.	1.7	0
102	Electrostatic Polarization Effect on Cooperative Aggregation of Full Length Human Islet Amyloid. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 1587-1595.	5.4	2
103	Automated Fragmentation QM/MM Calculation of NMR Chemical Shifts for Protein-Ligand Complexes. <i>Frontiers in Chemistry</i> , 2018, 6, 150.	3.6	14
104	A Force Balanced Fragmentation Method for ab Initio Molecular Dynamic Simulation of Protein. <i>Frontiers in Chemistry</i> , 2018, 6, 189.	3.6	5
105	Residue-specific free energy analysis in ligand bindings to JAK2. <i>Molecular Physics</i> , 2018, 116, 2633-2641.	1.7	16
106	Evaluation of the Coupled Two-Dimensional Main Chain Torsional Potential in Modeling Intrinsically Disordered Proteins. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 267-274.	5.4	6
107	Performance Comparison of Systematic Methods for Rigorous Definition of Coarse-Grained Sites of Large Biomolecules. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 214-222.	5.4	6
108	Protein simulation using coarse-grained two-bead multipole force field with polarizable water models. <i>Journal of Chemical Physics</i> , 2017, 146, 065101.	3.0	3

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109	Effect of polarization on HIV-1 protease and fluoro-substituted inhibitors binding energies by large scale molecular dynamics simulations. <i>Scientific Reports</i> , 2017, 7, 42223.	3.3	20
110	Two-bead polarizable water models combined with a two-bead multipole force field (TMFF) for coarse-grained simulation of proteins. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7410-7419.	2.8	9
111	Modeling and simulation of bacterial outer membranes and interactions with membrane proteins. <i>Current Opinion in Structural Biology</i> , 2017, 43, 131-140.	5.7	42
112	Interaction Entropy for Computational Alanine Scanning. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1112-1122.	5.4	80
113	Fragment Quantum Mechanical Method for Large-Sized Ionâ€“Water Clusters. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2021-2034.	5.3	54
114	Direct folding simulation of helical proteins using an effective polarizable bond force field. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15273-15284.	2.8	13
115	An Electrochemical Biosensor with Dual Signal Outputs: Toward Simultaneous Quantification of pH and O ₂ in the Brain upon Ischemia and in a Tumor during Cancer Starvation Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10471-10475.	13.8	84
116	Single Biosensor for Simultaneous Quantification of Glucose and pH in a Rat Brain of Diabetic Model Using Both Current and Potential Outputs. <i>Analytical Chemistry</i> , 2017, 89, 6656-6662.	6.5	45
117	Interaction entropy for protein-protein binding. <i>Journal of Chemical Physics</i> , 2017, 146, 124124.	3.0	92
118	Full QM Calculation of RNA Energy Using Electrostatically Embedded Generalized Molecular Fractionation with Conjugate Caps Method. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2503-2514.	2.5	21
119	CHARMM-GUI MDFF/xMDFF Utilizer for Molecular Dynamics Flexible Fitting Simulations in Various Environments. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3718-3723.	2.6	24
120	CHARMMâ€“GUI Martini Maker for modeling and simulation of complex bacterial membranes with lipopolysaccharides. <i>Journal of Computational Chemistry</i> , 2017, 38, 2354-2363.	3.3	150
121	Origins of Protons in Câ€“H Bond Insertion Products of Phenols: Proton-Self-Sufficient Function via Water Molecules. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6523-6529.	2.5	8
122	A theoretical study of the substituent effect on reactions of amines, carbon dioxide and ethylene oxide catalyzed by binary ionic liquids. <i>RSC Advances</i> , 2017, 7, 51521-51527.	3.6	11
123	An Electrochemical Biosensor with Dual Signal Outputs: Toward Simultaneous Quantification of pH and O ₂ in the Brain upon Ischemia and in a Tumor during Cancer Starvation Therapy. <i>Angewandte Chemie</i> , 2017, 129, 10607-10611.	2.0	19
124	Proteinâ€“Ligand Empirical Interaction Components for Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1793-1806.	5.4	51
125	CHARMMâ€“GUI 10 years for biomolecular modeling and simulation. <i>Journal of Computational Chemistry</i> , 2017, 38, 1114-1124.	3.3	224
126	Ab initio Quantum Mechanics/Molecular Mechanics Molecular Dynamics Simulation of CO in the Heme Distal Pocket of Myoglobin. <i>Chinese Journal of Chemical Physics</i> , 2017, 30, 705-716.	1.3	5

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127	Asymmetric Cryo-EM Structure of Anthrax Toxin Protective Antigen Pore with Lethal Factor N-Terminal Domain. <i>Toxins</i> , 2017, 9, 298.	3.4	12
128	Computational Study of PCSK9-EGFA Complex with Effective Polarizable Bond Force Field. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 101.	3.5	3
129	Preferred conformations of <i>N</i> -glycan core pentasaccharide in solution and in glycoproteins. <i>Glycobiology</i> , 2016, 26, cvv083.	2.5	34
130	A new algorithm for construction of coarse-grained sites of large biomolecules. <i>Journal of Computational Chemistry</i> , 2016, 37, 795-804.	3.3	18
131	A systematic study on RNA NMR chemical shift calculation based on the automated fragmentation QM/MM approach. <i>RSC Advances</i> , 2016, 6, 108590-108602.	3.6	14
132	Conformational Flexibility of a Short Loop near the Active Site of the SARS-3CLpro is Essential to Maintain Catalytic Activity. <i>Scientific Reports</i> , 2016, 6, 20918.	3.3	20
133	Constructing Optimal Coarse-Grained Sites of Huge Biomolecules by Fluctuation Maximization. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 2091-2100.	5.3	19
134	Interaction Entropy: A New Paradigm for Highly Efficient and Reliable Computation of Protein-Ligand Binding Free Energy. <i>Journal of the American Chemical Society</i> , 2016, 138, 5722-5728.	13.7	297
135	Replacing Arginine 33 for Alanine in the Hemophore HasA from <i>Pseudomonas aeruginosa</i> Causes Closure of the H32 Loop in the Apo-Protein. <i>Biochemistry</i> , 2016, 55, 2622-2631.	2.5	12
136	PBSA_E: A PBSA-Based Free Energy Estimator for Protein-Ligand Binding Affinity. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 854-861.	5.4	12
137	Effects of Spin-Labels on Membrane Burial Depth of MARCKS-ED Residues. <i>Biophysical Journal</i> , 2016, 111, 1600-1603.	0.5	0
138	DFT Calculations on the Mechanism of Transition-Metal-Catalyzed Reaction of Diazo Compounds with Phenols: O-H Insertion versus C-H Insertion. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6485-6492.	2.5	45
139	A Semiautomated Structure-Based Method To Predict Substrates of Enzymes via Molecular Docking: A Case Study with <i>Candida antarctica</i> Lipase B. <i>Journal of Chemical Information and Modeling</i> , 2016, 56, 1979-1994.	5.4	5
140	The origin of the cooperativity in the streptavidin-biotin system: A computational investigation through molecular dynamics simulations. <i>Scientific Reports</i> , 2016, 6, 27190.	3.3	28
141	Examination of the quality of various force fields and solvation models for the equilibrium simulations of GA88 and GB88. <i>Journal of Molecular Modeling</i> , 2016, 22, 177.	1.8	5
142	TMFF: A Two-Bead Multipole Force Field for Coarse-Grained Molecular Dynamics Simulation of Protein. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 6147-6156.	5.3	12
143	BamA POTRA Domain Interacts with a Native Lipid Membrane Surface. <i>Biophysical Journal</i> , 2016, 110, 2698-2709.	0.5	65
144	The effect of POPC acyl chains packing by aromatic amino acid methyl esters investigated by ATR-FTIR combined with QM calculations. <i>RSC Advances</i> , 2016, 6, 45569-45577.	3.6	7

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145	Calculations of Solvation Free Energy through Energy Reweighting from Molecular Mechanics to Quantum Mechanics. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 499-511.	5.3	78
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