

Yinglong Miao

List of Publications by Citations

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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.

85
papers

3,018
citations

31
h-index

54
g-index

117
ext. papers

3,984
ext. citations

5.3
avg, IF

6.02
L-index

#	Paper	IF	Citations
85	Gaussian Accelerated Molecular Dynamics: Unconstrained Enhanced Sampling and Free Energy Calculation. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3584-3595	6.4	302
84	Improved Reweighting of Accelerated Molecular Dynamics Simulations for Free Energy Calculation. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2677-2689	6.4	225
83	Ensemble Docking in Drug Discovery. <i>Biophysical Journal</i> , 2018 , 114, 2271-2278	2.9	203
82	Activation and dynamic network of the M2 muscarinic receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 10982-7	11.5	174
81	Accelerated molecular dynamics simulations of protein folding. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1536-49	3.5	106
80	Accelerated molecular dynamics simulations of ligand binding to a muscarinic G-protein-coupled receptor. <i>Quarterly Reviews of Biophysics</i> , 2015 , 48, 479-87	7	100
79	Unconstrained Enhanced Sampling for Free Energy Calculations of Biomolecules: A Review. <i>Molecular Simulation</i> , 2016 , 42, 1046-1055	2	93
78	CRISPR-Cas9 conformational activation as elucidated from enhanced molecular simulations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7260-7265	11.5	91
77	Graded activation and free energy landscapes of a muscarinic G-protein-coupled receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 12162-12167	11.5	79
76	Population based reweighting of scaled molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12759-68	3.4	75
75	Accelerated structure-based design of chemically diverse allosteric modulators of a muscarinic G protein-coupled receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5675-84	11.5	69
74	Striking Plasticity of CRISPR-Cas9 and Key Role of Non-target DNA, as Revealed by Molecular Simulations. <i>ACS Central Science</i> , 2016 , 2, 756-763	16.8	67
73	Gaussian Accelerated Molecular Dynamics in NAMD. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 9-19	6.4	64
72	Mechanism of the G-protein mimetic nanobody binding to a muscarinic G-protein-coupled receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3036-3041	11.5	64
71	Free energy landscape of G-protein coupled receptors, explored by accelerated molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6398-406	3.6	62
70	G-protein coupled receptors: advances in simulation and drug discovery. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 83-89	8.1	60
69	Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019 , 5, 651-662	16.8	57

68	Allosteric effects of sodium ion binding on activation of the m3 muscarinic g-protein-coupled receptor. <i>Biophysical Journal</i> , 2015 , 108, 1796-1806	2.9	53
67	Mechanistic Insights into Specific G Protein Interactions with Adenosine Receptors. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6462-6473	3.4	51
66	All-atom multiscale simulation of cowpea chlorotic mottle virus capsid swelling. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11181-95	3.4	51
65	Gaussian Accelerated Molecular Dynamics: Theory, Implementation, and Applications. <i>Annual Reports in Computational Chemistry</i> , 2017 , 13, 231-278	1.8	47
64	Multi-conformer ensemble docking to difficult protein targets. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1026-34	3.4	46
63	Derivation of mean-square displacements for protein dynamics from elastic incoherent neutron scattering. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5028-36	3.4	40
62	Temperature-dependent dynamical transitions of different classes of amino acid residue in a globular protein. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19576-9	16.4	38
61	Structural Basis for Binding of Allosteric Drug Leads in the Adenosine A Receptor. <i>Scientific Reports</i> , 2018 , 8, 16836	4.9	38
60	Mapping of allosteric druggable sites in activation-associated conformers of the M2 muscarinic receptor. <i>Chemical Biology and Drug Design</i> , 2014 , 83, 237-46	2.9	36
59	Peptide Gaussian accelerated molecular dynamics (Pep-GaMD): Enhanced sampling and free energy and kinetics calculations of peptide binding. <i>Journal of Chemical Physics</i> , 2020 , 153, 154109	3.9	36
58	Viral structural transitions: an all-atom multiscale theory. <i>Journal of Chemical Physics</i> , 2006 , 125, 214901	3.9	34
57	Ligand Binding Pathways and Conformational Transitions of the HIV Protease. <i>Biochemistry</i> , 2018 , 57, 1533-1541	3.2	33
56	Stochastic dynamics of bionanosystems: Multiscale analysis and specialized ensembles. <i>Journal of Chemical Physics</i> , 2008 , 128, 234908	3.9	32
55	Identification of SLAC1 anion channel residues required for CO/bicarbonate sensing and regulation of stomatal movements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11129-11137	11.5	32
54	All-atom multiscaling and new ensembles for dynamical nanoparticles. <i>Journal of Chemical Physics</i> , 2006 , 125, 44901	3.9	31
53	Ligand Gaussian Accelerated Molecular Dynamics (LiGaMD): Characterization of Ligand Binding Thermodynamics and Kinetics. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5526-5547	6.4	31
52	Improved Modeling of Peptide-Protein Binding Through Global Docking and Accelerated Molecular Dynamics Simulations. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 112	5.6	29
51	Molecular dynamics/order parameter extrapolation for bionanosystem simulations. <i>Journal of Computational Chemistry</i> , 2009 , 30, 423-37	3.5	29

50	Gaussian accelerated molecular dynamics (GaMD): principles and applications.. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1521	7.9	28
49	Self-assembly of nanocomponents into composite structures: derivation and simulation of Langevin equations. <i>Journal of Chemical Physics</i> , 2009 , 130, 194115	3.9	24
48	Acceleration of biomolecular kinetics in Gaussian accelerated molecular dynamics. <i>Journal of Chemical Physics</i> , 2018 , 149, 072308	3.9	24
47	Coupled flexibility change in cytochrome P450cam substrate binding determined by neutron scattering, NMR, and molecular dynamics simulation. <i>Biophysical Journal</i> , 2012 , 103, 2167-76	2.9	22
46	Active-site hydration and water diffusion in cytochrome P450cam: a highly dynamic process. <i>Biophysical Journal</i> , 2011 , 101, 1493-503	2.9	22
45	Replica Exchange Gaussian Accelerated Molecular Dynamics: Improved Enhanced Sampling and Free Energy Calculation. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 1853-1864	6.4	21
44	G-Protein-Coupled Receptor-Membrane Interactions Depend on the Receptor Activation State. <i>Journal of Computational Chemistry</i> , 2020 , 41, 460-471	3.5	21
43	Gaussian accelerated molecular dynamics for elucidation of drug pathways. <i>Expert Opinion on Drug Discovery</i> , 2018 , 13, 1055-1065	6.2	21
42	Mapping the allosteric sites of the A adenosine receptor. <i>Chemical Biology and Drug Design</i> , 2018 , 91, 5-16	2.9	18
41	Viral structural transition mechanisms revealed by multiscale molecular dynamics/order parameter extrapolation simulation. <i>Biopolymers</i> , 2010 , 93, 61-73	2.2	17
40	Reactive Center Loop Insertion in E1-Antitrypsin Captured by Accelerated Molecular Dynamics Simulation. <i>Biochemistry</i> , 2017 , 56, 634-646	3.2	16
39	Space warping order parameters and symmetry: application to multiscale simulation of macromolecular assemblies. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 8423-34	3.4	16
38	Molecular dynamic study of MlaC protein in Gram-negative bacteria: conformational flexibility, solvent effect and protein-phospholipid binding. <i>Protein Science</i> , 2016 , 25, 1430-7	6.3	15
37	Quasielastic neutron scattering in biology: Theory and applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3638-3650	4	12
36	Pathway and mechanism of drug binding to chemokine receptors revealed by accelerated molecular simulations. <i>Future Medicinal Chemistry</i> , 2020 , 12, 1213-1225	4.1	12
35	Mechanisms of ESecretase Activation and Substrate Processing. <i>ACS Central Science</i> , 2020 , 6, 969-983	16.8	12
34	A Computational Modeling Approach Predicts Interaction of the Antifungal Protein AFP from with Fungal Membranes via Its ECore Motif. <i>MSphere</i> , 2018 , 3,	5	12
33	Positive allosteric mechanisms of adenosine A receptor-mediated analgesia. <i>Nature</i> , 2021 , 597, 571-576	50.4	12

32	Activation mechanisms of the first sphingosine-1-phosphate receptor. <i>Protein Science</i> , 2017 , 26, 1150-1160	6.9	11
31	Structure of the Human Respiratory Syncytial Virus M2-1 Protein in Complex with a Short Positive-Sense Gene-End RNA. <i>Structure</i> , 2020 , 28, 979-990.e4	5.2	11
30	Investigation of the conformational dynamics of the apo A2A adenosine receptor. <i>Protein Science</i> , 2015 , 24, 1004-12	6.3	10
29	Ligand Binding in the Extracellular Vestibule of the Neurotransmitter Transporter Homologue LeuT. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 619-628	5.7	9
28	Retrospective ensemble docking of allosteric modulators in an adenosine G-protein-coupled receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129615	4	8
27	Mechanism of RNA recognition by a Musashi RNA-binding protein.. <i>Current Research in Structural Biology</i> , 2022 , 4, 10-20	2.8	6
26	General trends of dihedral conformational transitions in a globular protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 501-14	4.2	6
25	Recent advances in computational studies of GPCR-G protein interactions. <i>Advances in Protein Chemistry and Structural Biology</i> , 2019 , 116, 397-419	5.3	5
24	Zaccai neutron resilience and site-specific hydration dynamics in a globular protein. <i>European Physical Journal E</i> , 2013 , 36, 72	1.5	5
23	Agonist Binding and G Protein Coupling in Histamine H Receptor: A Molecular Dynamics Study. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
22	Molecular mechanism of off-target effects in CRISPR-Cas9		4
21	Computer-aided GPCR drug discovery 2020 , 283-293		3
20	Identification and Validation of an Secondary Metabolite Derivative as an Inhibitor of the Musashi-RNA Interaction. <i>Cancers</i> , 2020 , 12,	6.6	3
19	Mechanism of Ligand Recognition by Human ACE2 Receptor. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4814-4822	6.4	3
18	Binding Analysis Using Accelerated Molecular Dynamics Simulations and Future Perspectives.. <i>Advances and Applications in Bioinformatics and Chemistry</i> , 2022 , 15, 1-19	1.5	2
17	Mechanism of ligand recognition by human ACE2 receptor 2020 ,		2
16	Pathways and Mechanism of Caffeine Binding to Human Adenosine A Receptor. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 673170	5.6	2
15	Recognition of single-stranded nucleic acids by small-molecule splicing modulators. <i>Nucleic Acids Research</i> , 2021 , 49, 7870-7883	20.1	2

14	Docking simulation and antibiotic discovery targeting the MlaC protein in Gram-negative bacteria. <i>Chemical Biology and Drug Design</i> , 2019 , 93, 647-652	2.9	2
13	Ligand Gaussian accelerated molecular dynamics (LiGaMD): Characterization of ligand binding thermodynamics and kinetics		1
12	G-Protein-Coupled Receptor-Membrane Interactions Depend on the Receptor Activation state		1
11	Retrospective Ensemble Docking of Allosteric Modulators in an Adenosine G-Protein-Coupled Receptor		1
10	Mechanism of RNA recognition by a Musashi RNA-binding protein		1
9	Efficient purification and assembly of ribonucleoprotein complex for interaction analysis by MST assay coupled with GaMD simulations. <i>STAR Protocols</i> , 2021 , 2, 100315	1.4	1
8	Hybrid finite element and Brownian dynamics method for charged particles. <i>Journal of Chemical Physics</i> , 2016 , 144, 164107	3.9	1
7	Specific Engineered G Protein Coupling to Histamine Receptors Revealed from Cellular Assay Experiments and Accelerated Molecular Dynamics Simulations. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
6	Structure and mechanism of the β secretase intramembrane protease complex.. <i>Current Opinion in Structural Biology</i> , 2022 , 74, 102373	8.1	1
5	Molecular Simulations and Drug Discovery of Adenosine Receptors.. <i>Molecules</i> , 2022 , 27,	4.8	1
4	Mechanism of Peptide Agonist Binding in CXCR4 Chemokine Receptor.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 821055	5.6	0
3	Mechanism of tethered agonist-mediated signaling by polycystin-1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2113786119	11.5	0
2	Activation of the M2 Muscarinic Receptor and Computer-Aided Design of Receptor-Selective Allosteric Drugs. <i>Biophysical Journal</i> , 2014 , 106, 101a	2.9	
1	Temperature Dependent Dynamics of Cytochrome P450cam from Elastic Incoherent Neutron Scattering. <i>Biophysical Journal</i> , 2012 , 102, 382a	2.9	