

Yinglong Miao

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.

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 | 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 |
| 84 | Mechanism of RNA recognition by a Musashi RNA-binding protein.. <i>Current Research in Structural Biology</i> , 2022 , 4, 10-20 | 2.8 | 6 |
| 83 | Mechanism of Peptide Agonist Binding in CXCR4 Chemokine Receptor.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 821055 | 5.6 | 0 |
| 82 | Structure and mechanism of the β secretase intramembrane protease complex.. <i>Current Opinion in Structural Biology</i> , 2022 , 74, 102373 | 8.1 | 1 |
| 81 | Molecular Simulations and Drug Discovery of Adenosine Receptors.. <i>Molecules</i> , 2022 , 27, | 4.8 | 1 |
| 80 | 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 |
| 79 | 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 |
| 78 | Gaussian accelerated molecular dynamics (GaMD): principles and applications.. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021 , 11, e1521 | 7.9 | 28 |
| 77 | Pathways and Mechanism of Caffeine Binding to Human Adenosine A Receptor. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 673170 | 5.6 | 2 |
| 76 | Mechanism of Ligand Recognition by Human ACE2 Receptor. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4814-4822 | 6.4 | 3 |
| 75 | Recognition of single-stranded nucleic acids by small-molecule splicing modulators. <i>Nucleic Acids Research</i> , 2021 , 49, 7870-7883 | 20.1 | 2 |
| 74 | Positive allosteric mechanisms of adenosine A receptor-mediated analgesia. <i>Nature</i> , 2021 , 597, 571-576 | 50.4 | 12 |
| 73 | 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 |
| 72 | 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 |
| 71 | Mechanisms of β Secretase Activation and Substrate Processing. <i>ACS Central Science</i> , 2020 , 6, 969-983 | 16.8 | 12 |
| 70 | 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 |
| 69 | Mechanism of ligand recognition by human ACE2 receptor 2020 , | | 2 |

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| 68 | Computer-aided GPCR drug discovery 2020 , 283-293 | | 3 |
| 67 | 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 |
| 66 | 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 |
| 65 | 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 |
| 64 | 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 |
| 63 | 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 |
| 62 | Identification and Validation of a Secondary Metabolite Derivative as an Inhibitor of the Musashi-RNA Interaction. <i>Cancers</i> , 2020 , 12, | 6.6 | 3 |
| 61 | Deciphering Off-Target Effects in CRISPR-Cas9 through Accelerated Molecular Dynamics. <i>ACS Central Science</i> , 2019 , 5, 651-662 | 16.8 | 57 |
| 60 | 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 |
| 59 | Mechanistic Insights into Specific G Protein Interactions with Adenosine Receptors. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6462-6473 | 3.4 | 51 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | Ligand Binding Pathways and Conformational Transitions of the HIV Protease. <i>Biochemistry</i> , 2018 , 57, 1533-1541 | 3.2 | 33 |
| 53 | Ensemble Docking in Drug Discovery. <i>Biophysical Journal</i> , 2018 , 114, 2271-2278 | 2.9 | 203 |
| 52 | Mapping the allosteric sites of the A adenosine receptor. <i>Chemical Biology and Drug Design</i> , 2018 , 91, 5-16 | 2.9 | 18 |
| 51 | Structural Basis for Binding of Allosteric Drug Leads in the Adenosine A Receptor. <i>Scientific Reports</i> , 2018 , 8, 16836 | 4.9 | 38 |

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| 50 | 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 |
| 49 | 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 |
| 48 | Gaussian accelerated molecular dynamics for elucidation of drug pathways. <i>Expert Opinion on Drug Discovery</i> , 2018 , 13, 1055-1065 | 6.2 | 21 |
| 47 | Acceleration of biomolecular kinetics in Gaussian accelerated molecular dynamics. <i>Journal of Chemical Physics</i> , 2018 , 149, 072308 | 3.9 | 24 |
| 46 | Quasielastic neutron scattering in biology: Theory and applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3638-3650 | 4 | 12 |
| 45 | Activation mechanisms of the first sphingosine-1-phosphate receptor. <i>Protein Science</i> , 2017 , 26, 1150-1160 | 6.9 | 11 |
| 44 | Ligand Binding in the Extracellular Vestibule of the Neurotransmitter Transporter Homologue LeuT. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 619-628 | 5.7 | 9 |
| 43 | Reactive Center Loop Insertion in E1-Antitrypsin Captured by Accelerated Molecular Dynamics Simulation. <i>Biochemistry</i> , 2017 , 56, 634-646 | 3.2 | 16 |
| 42 | Gaussian Accelerated Molecular Dynamics in NAMD. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 9-19 | 6.4 | 64 |
| 41 | Gaussian Accelerated Molecular Dynamics: Theory, Implementation, and Applications. <i>Annual Reports in Computational Chemistry</i> , 2017 , 13, 231-278 | 1.8 | 47 |
| 40 | 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 |
| 39 | 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 |
| 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 | G-protein coupled receptors: advances in simulation and drug discovery. <i>Current Opinion in Structural Biology</i> , 2016 , 41, 83-89 | 8.1 | 60 |
| 36 | General trends of dihedral conformational transitions in a globular protein. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016 , 84, 501-14 | 4.2 | 6 |
| 35 | Unconstrained Enhanced Sampling for Free Energy Calculations of Biomolecules: A Review. <i>Molecular Simulation</i> , 2016 , 42, 1046-1055 | 2 | 93 |
| 34 | Hybrid finite element and Brownian dynamics method for charged particles. <i>Journal of Chemical Physics</i> , 2016 , 144, 164107 | 3.9 | 1 |
| 33 | 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 |

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| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | Multi-conformer ensemble docking to difficult protein targets. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1026-34 | 3.4 | 46 |
| 28 | 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 |
| 27 | Accelerated molecular dynamics simulations of protein folding. <i>Journal of Computational Chemistry</i> , 2015 , 36, 1536-49 | 3.5 | 106 |
| 26 | Investigation of the conformational dynamics of the apo A2A adenosine receptor. <i>Protein Science</i> , 2015 , 24, 1004-12 | 6.3 | 10 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | Activation of the M2 Muscarinic Receptor and Computer-Aided Design of Receptor-Selective Allosteric Drugs. <i>Biophysical Journal</i> , 2014 , 106, 101a | 2.9 | |
| 21 | Population based reweighting of scaled molecular dynamics. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 12759-68 | 3.4 | 75 |
| 20 | Zaccai neutron resilience and site-specific hydration dynamics in a globular protein. <i>European Physical Journal E</i> , 2013 , 36, 72 | 1.5 | 5 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Temperature Dependent Dynamics of Cytochrome P450cam from Elastic Incoherent Neutron Scattering. <i>Biophysical Journal</i> , 2012 , 102, 382a | 2.9 | |
| 15 | 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 |

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| 14 | 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 |
| 13 | Active-site hydration and water diffusion in cytochrome P450cam: a highly dynamic process. <i>Biophysical Journal</i> , 2011 , 101, 1493-503 | 2.9 | 22 |
| 12 | 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 |
| 11 | Viral structural transition mechanisms revealed by multiscale molecular dynamics/order parameter extrapolation simulation. <i>Biopolymers</i> , 2010 , 93, 61-73 | 2.2 | 17 |
| 10 | 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 |
| 9 | Molecular dynamics/order parameter extrapolation for bionanosystem simulations. <i>Journal of Computational Chemistry</i> , 2009 , 30, 423-37 | 3.5 | 29 |
| 8 | Stochastic dynamics of bionanosystems: Multiscale analysis and specialized ensembles. <i>Journal of Chemical Physics</i> , 2008 , 128, 234908 | 3.9 | 32 |
| 7 | All-atom multiscaling and new ensembles for dynamical nanoparticles. <i>Journal of Chemical Physics</i> , 2006 , 125, 44901 | 3.9 | 31 |
| 6 | Viral structural transitions: an all-atom multiscale theory. <i>Journal of Chemical Physics</i> , 2006 , 125, 214901 | 3.9 | 34 |
| 5 | Ligand Gaussian accelerated molecular dynamics (LiGaMD): Characterization of ligand binding thermodynamics and kinetics | | 1 |
| 4 | G-Protein-Coupled Receptor-Membrane Interactions Depend on the Receptor Activation state | | 1 |
| 3 | Retrospective Ensemble Docking of Allosteric Modulators in an Adenosine G-Protein-Coupled Receptor | | 1 |
| 2 | Mechanism of RNA recognition by a Musashi RNA-binding protein | | 1 |
| 1 | Molecular mechanism of off-target effects in CRISPR-Cas9 | | 4 |