

Denis Bucher

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5366295/denis-bucher-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27
papers

1,171
citations

18
h-index

29
g-index

29
ext. papers

1,359
ext. citations

5.6
avg, IF

4.39
L-index

#	Paper	IF	Citations
27	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
26	Reaction Mechanism of HIV-1 Protease by Hybrid Car-Parrinello/Classical MD Simulations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11139-11149	3.4	100
25	Dissociation of NaCl in water from ab initio molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2010 , 132, 114510	3.9	95
24	Accessing a hidden conformation of the maltose binding protein using accelerated molecular dynamics. <i>PLoS Computational Biology</i> , 2011 , 7, e1002034	5	92
23	Polarization effects and charge transfer in the KcsA potassium channel. <i>Biophysical Chemistry</i> , 2006 , 124, 292-301	3.5	78
22	On the Use of Accelerated Molecular Dynamics to Enhance Configurational Sampling in Ab Initio Simulations. <i>Journal of Chemical Theory and Computation</i> , 2011 , 7, 890-897	6.4	67
21	Membranes serve as allosteric activators of phospholipase A2, enabling it to extract, bind, and hydrolyze phospholipid substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E516-25	11.5	64
20	Coordination numbers of K(+) and Na(+) Ions inside the selectivity filter of the KcsA potassium channel: insights from first principles molecular dynamics. <i>Biophysical Journal</i> , 2010 , 98, L47-9	2.9	55
19	The elusive 5'-deoxyadenosyl radical in coenzyme-B12-mediated reactions. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1591-9	16.4	48
18	Fluoroketone inhibition of Ca(2+)-independent phospholipase A2 through binding pocket association defined by hydrogen/deuterium exchange and molecular dynamics. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1330-7	16.4	41
17	Polarization of water in the first hydration shell of K+ and Ca2+ ions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10786-90	3.4	35
16	Accelerated Molecular Dynamics Simulations with the AMOEBA Polarizable Force Field on Graphics Processing Units. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4684-4691	6.4	32
15	Molecular simulations of ion channels: a quantum chemist's perspective. <i>Journal of General Physiology</i> , 2010 , 135, 549-54	3.4	32
14	The protonation state of the Glu-71/Asp-80 residues in the KcsA potassium channel: a first-principles QM/MM molecular dynamics study. <i>Biophysical Journal</i> , 2007 , 93, 2315-24	2.9	32
13	Shedding Light on Important Waters for Drug Design: Simulations versus Grid-Based Methods. <i>Journal of Chemical Information and Modeling</i> , 2018 , 58, 692-699	6.1	31
12	Insertion of the Ca(2+)-independent phospholipase A2 into a phospholipid bilayer via coarse-grained and atomistic molecular dynamics simulations. <i>PLoS Computational Biology</i> , 2013 , 9, e1003156	5	27
11	Orientational relaxation of water trapped inside C60 fullerenes. <i>Chemical Physics Letters</i> , 2012 , 534, 38-42	5	24

10	On the importance of ribose orientation in the substrate activation of the coenzyme B12-dependent mutases. <i>Chemistry - A European Journal</i> , 2009 , 15, 8578-85	4.8	18
9	Importance of water polarization for ion permeation in narrow pores. <i>Chemical Physics Letters</i> , 2009 , 477, 207-210	2.5	18
8	Developing Improved Charge Sets for the Modeling of the KcsA K(+) Channel Using QM/MM Electrostatic Potentials. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 2173-9	6.4	17
7	Ab Initio Study of Water Polarization in the Hydration Shell of Aqueous Hydroxide: Comparison between Polarizable and Nonpolarizable Water Models. <i>Journal of Chemical Theory and Computation</i> , 2010 , 6, 2888-95	6.4	15
6	Dipeptide Aggregation in Aqueous Solution from Fixed Point-Charge Force Fields. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1631-1637	6.4	8
5	Exploring the Photophysical Properties of Molecular Systems Using Excited State Accelerated ab Initio Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 2752-2761	6.4	8
4	Mechanistic Implications of Reductive Co-C Bond Cleavage in B-Dependent Methylmalonyl CoA Mutase. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 2210-2216	3.4	4
3	Cryo-EM structural studies of the agonist complexed human TRPV4 ion-channel reveals novel structural rearrangements resulting in an open-conformation		4
2	Insight into Lipopolysaccharide Translocation by Cryo-EM structures of a LptDE Transporter in Complex with Pro-Macrobodies		1
1	Discovery and Optimization of Orally Bioavailable Phthalazone and Cinnolone Carboxylic Acid Derivatives as S1P2 Antagonists against Fibrotic Diseases. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 14557-14586	8.3	06