

Denis Bucher

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.

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	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	14586
26	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
25	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
24	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
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	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
21	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
20	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
19	Insertion of the Ca ²⁺ -independent phospholipase A ₂ into a phospholipid bilayer via coarse-grained and atomistic molecular dynamics simulations. <i>PLoS Computational Biology</i> , 2013 , 9, e1003156	5	27
18	Oriental relaxation of water trapped inside C60 fullerenes. <i>Chemical Physics Letters</i> , 2012 , 534, 38-42	4.5	24
17	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
16	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
15	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
14	Accessing a hidden conformation of the maltose binding protein using accelerated molecular dynamics. <i>PLoS Computational Biology</i> , 2011 , 7, e1002034	5	92
13	Molecular simulations of ion channels: a quantum chemist's perspective. <i>Journal of General Physiology</i> , 2010 , 135, 549-54	3.4	32
12	Dissociation of NaCl in water from ab initio molecular dynamics simulations. <i>Journal of Chemical Physics</i> , 2010 , 132, 114510	3.9	95
11	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

10	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
9	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
8	Importance of water polarization for ion permeation in narrow pores. <i>Chemical Physics Letters</i> , 2009 , 477, 207-210	2.5	18
7	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
6	Polarization of water in the first hydration shell of K ⁺ and Ca ²⁺ ions. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10786-90	3.4	35
5	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
4	Polarization effects and charge transfer in the KcsA potassium channel. <i>Biophysical Chemistry</i> , 2006 , 124, 292-301	3.5	78
3	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
2	Cryo-EM structural studies of the agonist complexed human TRPV4 ion-channel reveals novel structural rearrangements resulting in an open-conformation		4
1	Insight into Lipopolysaccharide Translocation by Cryo-EM structures of a LptDE Transporter in Complex with Pro-Macrobodies		1