

# David R Slochower

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

931  
citations

623734

14  
h-index

940533

16  
g-index

21  
all docs

21  
docs citations

21  
times ranked

1684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinase Associated-1 Domains Drive MARK/PAR1 Kinases to Membrane Targets by Binding Acidic Phospholipids. <i>Cell</i> , 2010, 143, 966-977.	28.9	150
2	Overview of the SAMPL5 host-guest challenge: Are we doing better?. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 1-19.	2.9	140
3	Escaping Atom Types in Force Fields Using Direct Chemical Perception. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 6076-6092.	5.3	110
4	Polyelectrolyte properties of filamentous biopolymers and their consequences in biological fluids. <i>Soft Matter</i> , 2014, 10, 1439.	2.7	91
5	The SAMPL6 SAMPLing challenge: assessing the reliability and efficiency of binding free energy calculations. <i>Journal of Computer-Aided Molecular Design</i> , 2020, 34, 601-633.	2.9	86
6	Transmembrane orientation and possible role of the fusogenic peptide from parainfluenza virus 5 (PIV5) in promoting fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3958-3963.	7.1	65
7	Open collaborative writing with Manubot. <i>PLoS Computational Biology</i> , 2019, 15, e1007128.	3.2	51
8	Counterion-mediated cluster formation by polyphosphoinositides. <i>Chemistry and Physics of Lipids</i> , 2014, 182, 38-51.	3.2	42
9	Quantum and All-Atom Molecular Dynamics Simulations of Protonation and Divalent Ion Binding to Phosphatidylinositol 4,5-Bisphosphate (PIP <sub>2</sub> ). <i>Journal of Physical Chemistry B</i> , 2013, 117, 8322-8329.	2.6	38
10	Counterion-mediated pattern formation in membranes containing anionic lipids. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 177-188.	14.7	33
11	The SAMPL5 host-guest challenge: computing binding free energies and enthalpies from explicit solvent simulations by the attach-pull-release (APR) method. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 133-145.	2.9	33
12	Binding Thermodynamics of Host-Guest Systems with SMIRNOFF99Frosst 1.0.5 from the Open Force Field Initiative. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6225-6242.	5.3	21
13	Salmon-derived thrombin inhibits development of chronic pain through an endothelial barrier protective mechanism dependent on APC. <i>Biomaterials</i> , 2016, 80, 96-105.	11.4	20
14	Divalent cations bind to phosphoinositides to induce ion and isomer specific propensities for nano-cluster initiation in bilayer membranes. <i>Royal Society Open Science</i> , 2020, 7, 192208.	2.4	17
15	Motor-like Properties of Nonmotor Enzymes. <i>Biophysical Journal</i> , 2018, 114, 2174-2179.	0.5	13
16	Physical chemistry and membrane properties of two phosphatidylinositol bisphosphate isomers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12608-12615.	2.8	12
17	Molecular and Continuum Modeling Methods for Understanding the Role of Polyphosphoinositides in Inducing Cellular Morphology Changes. <i>Biophysical Journal</i> , 2019, 116, 374a.	0.5	0