

Alex Dickson

List of Publications by Year in descending order

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48
papers

1,337
citations

331670

21
h-index

377865

34
g-index

64
all docs

64
docs citations

64
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Creating Maps of the Ligand Binding Landscape for Kinetics-Based Drug Discovery. <i>Methods in Molecular Biology</i> , 2022, 2385, 325-334.	0.9	0
2	Local Ion Densities can Influence Transition Paths of Molecular Binding. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 858316.	3.5	2
3	The effect of the linker in urea-based soluble epoxide hydrolase inhibitors™ on their blood-brain penetration ability and drug-like properties. <i>FASEB Journal</i> , 2022, 36, .	0.5	0
4	A biosensor of protein foldedness identifies increased chaperone activity of chaperones in the nucleus following increased cytosolic protein aggregation. <i>Journal of Biological Chemistry</i> , 2022, 298, 102158.	3.4	2
5	Membrane-Mediated Ligand Unbinding of the PK-11195 Ligand from TSPO. <i>Biophysical Journal</i> , 2021, 120, 158-167.	0.5	25
6	ClassicalGSG: Prediction of $\log P$ using classical molecular force fields and geometric scattering for graphs. <i>Journal of Computational Chemistry</i> , 2021, 42, 1006-1017.	3.3	6
7	Predicting partition coefficients for the SAMPL7 physical property challenge using the ClassicalGSG method. <i>Journal of Computer-Aided Molecular Design</i> , 2021, 35, 819-830.	2.9	5
8	Perturbation of ACE2 Structural Ensembles by SARS-CoV-2 Spike Protein Binding. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5896-5906.	5.3	3
9	Identification and Characterization of Two Structurally Related Dipeptides that Enhance Catalytic Efficiency of Neurolysin. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 379, 191-202.	2.5	8
10	Enhanced Jarzynski free energy calculations using weighted ensemble. <i>Journal of Chemical Physics</i> , 2020, 153, 134116.	3.0	4
11	On Calculating Free Energy Differences Using Ensembles of Transition Paths. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 106.	3.5	30
12	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
13	Wepy: A Flexible Software Framework for Simulating Rare Events with Weighted Ensemble Resampling. <i>ACS Omega</i> , 2020, 5, 31608-31623.	3.5	21
14	REVO: Resampling of ensembles by variation optimization. <i>Journal of Chemical Physics</i> , 2019, 150, 244112.	3.0	43
15	Selectivity, ligand deconstruction, and cellular activity analysis of a BPTF bromodomain inhibitor. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 2020-2027.	2.8	18
16	Markov-State Transition Path Analysis of Electrostatic Channeling. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15284-15292.	3.1	12
17	Isothermal Analysis of ThermoFluor Data can readily provide Quantitative Binding Affinities. <i>Scientific Reports</i> , 2019, 9, 2650.	3.3	81
18	A Suite of Tutorials for the WESTPA Rare-Events Sampling Software [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2019, 1, .	6.4	16

#	ARTICLE	IF	CITATIONS
19	A biosensor-based framework to measure latent proteostasis capacity. <i>Nature Communications</i> , 2018, 9, 287.	12.8	43
20	Unbiased Molecular Dynamics of 11 min Timescale Drug Unbinding Reveals Transition State Stabilizing Interactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 618-628.	13.7	107
21	Long-Range Changes in Neurolysin Dynamics Upon Inhibitor Binding. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 444-452.	5.3	11
22	Mapping the Ligand Binding Landscape. <i>Biophysical Journal</i> , 2018, 115, 1707-1719.	0.5	33
23	Predicting ligand binding affinity using on- and off-rates for the SAMPL6 SAMPLing challenge. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 1001-1012.	2.9	38
24	Structural insights into lethal contractural syndrome type 3 (LCCS3) caused by a missense mutation of PIP5K β 3. <i>Biochemical Journal</i> , 2018, 475, 2257-2269.	3.7	7
25	How Does a Ligand Explore the Deep Channel of Neurolysin? A Conformational Dynamics Study with Wexplore and Elastic Network Modeling. <i>Biophysical Journal</i> , 2017, 112, 355a.	0.5	0
26	Multiple Ligand Unbinding Pathways and Ligand-Induced Destabilization Revealed by WExplore. <i>Biophysical Journal</i> , 2017, 112, 620-629.	0.5	73
27	Kinetics and Pathways of Extremely Long Ligand Release Events Revealed by Wexplore and Conformation Space Networks. <i>Biophysical Journal</i> , 2017, 112, 348a.	0.5	0
28	Optimal allosteric stabilization sites using contact stabilization analysis. <i>Journal of Computational Chemistry</i> , 2017, 38, 1138-1146.	3.3	1
29	Kinetics of Ligand Binding Through Advanced Computational Approaches: A Review. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2626-2641.	2.1	44
30	Ligand Residence Times and Exit Pathways Obtained in Silico without Biasing Forces. <i>Biophysical Journal</i> , 2016, 110, 203a-204a.	0.5	0
31	Capturing a Dynamic Chaperone-Substrate Interaction Using NMR-Informed Molecular Modeling. <i>Journal of the American Chemical Society</i> , 2016, 138, 9826-9839.	13.7	25
32	Ligand Release Pathways Obtained with WExplore: Residence Times and Mechanisms. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5377-5385.	2.6	50
33	NMR-Informed Molecular Modeling Uncovers the Conformational Landscape of Chaperone Binding with Unfolded Substrate. <i>Biophysical Journal</i> , 2016, 110, 369a.	0.5	0
34	Coupled folding and binding with 2D Window-Exchange Umbrella Sampling. <i>Journal of Computational Chemistry</i> , 2016, 37, 587-594.	3.3	21
35	pH-Dependent Transient Conformational States Control Optical Properties in Cyan Fluorescent Protein. <i>Journal of the American Chemical Society</i> , 2015, 137, 2892-2900.	13.7	17
36	Multiscale Modeling of a Conditionally Disordered pH-Sensing Chaperone. <i>Journal of Molecular Biology</i> , 2015, 427, 1670-1680.	4.2	27

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37	Efficient in silico exploration of RNA interhelical conformations using Euler angles and WExplore. <i>Nucleic Acids Research</i> , 2014, 42, 12126-12137.	14.5	25
38	WExplore: Hierarchical Exploration of High-Dimensional Spaces Using the Weighted Ensemble Algorithm. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3532-3542.	2.6	91
39	Native States of Fast-Folding Proteins Are Kinetic Traps. <i>Journal of the American Chemical Society</i> , 2013, 135, 4729-4734.	13.7	46
40	Binding and Folding of the Small Bacterial Chaperone HdeA. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13219-13225.	2.6	16
41	Quantifying Chaperone-Mediated Transitions in the Proteostasis Network of <i>E. coli</i> . <i>PLoS Computational Biology</i> , 2013, 9, e1003324.	3.2	5
42	Quantifying Hub-like Behavior in Protein Folding Networks. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3044-3052.	5.3	22
43	Flow-Dependent Unfolding and Refolding of an RNA by Nonequilibrium Umbrella Sampling. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2710-2720.	5.3	36
44	Entrainment of a driven oscillator as a dynamical phase transition. <i>Physical Review E</i> , 2011, 84, 061134.	2.1	4
45	Enhanced Sampling of Nonequilibrium Steady States. <i>Annual Review of Physical Chemistry</i> , 2010, 61, 441-459.	10.8	71
46	Incorporating friction and collective shear moves into a lattice gas. <i>Physical Review E</i> , 2010, 81, 051111.	2.1	0
47	Nonequilibrium umbrella sampling in spaces of many order parameters. <i>Journal of Chemical Physics</i> , 2009, 130, 074104.	3.0	68
48	Separating forward and backward pathways in nonequilibrium umbrella sampling. <i>Journal of Chemical Physics</i> , 2009, 131, 154104.	3.0	70