

Mark A Olson

List of Publications by Year in descending order

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903
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times ranked

1093
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-Molecule Probes Targeting the Viral PPxY-Host Nedd4 Interface Block Egress of a Broad Range of RNA Viruses. <i>Journal of Virology</i> , 2014, 88, 7294-7306.	3.4	86
2	In Silico Derived Small Molecules Bind the Filovirus VP35 Protein and Inhibit Its Polymerase Cofactor Activity. <i>Journal of Molecular Biology</i> , 2014, 426, 2045-2058.	4.2	75
3	Staphylococcal enterotoxins A and B share a common structural motif for binding class II major histocompatibility complex molecules. <i>Nature Structural Biology</i> , 1995, 2, 554-560.	9.7	68
4	Finding a new vaccine in the ricin protein fold. <i>Protein Engineering, Design and Selection</i> , 2004, 17, 391-397.	2.1	68
5	Evaluation of Disulfide Bond Position to Enhance the Thermal Stability of a Highly Stable Single Domain Antibody. <i>PLoS ONE</i> , 2014, 9, e115405.	2.5	43
6	Prediction of protein loop conformations using multiscale modeling methods with physical energy scoring functions. <i>Journal of Computational Chemistry</i> , 2008, 29, 820-831.	3.3	40
7	Secondary structural predictions for the clostridial neurotoxins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1994, 20, 293-300.	2.6	39
8	Protein Folding Simulations Combining Self-Guided Langevin Dynamics and Temperature-Based Replica Exchange. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2477-2487.	5.3	38
9	Ricin A-chain structural determinant for binding substrate analogues: A molecular dynamics simulation analysis. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997, 27, 80-95.	2.6	36
10	Calculation of Protein Heat Capacity from Replica-Exchange Molecular Dynamics Simulations with Different Implicit Solvent Models. <i>Journal of Physical Chemistry B</i> , 2008, 112, 15064-15073.	2.6	35
11	Comparison of two adaptive temperature-based replica exchange methods applied to a sharp phase transition of protein unfolding-folding. <i>Journal of Chemical Physics</i> , 2011, 134, 244111.	3.0	27
12	Modeling implicit reorganization in continuum descriptions of protein-protein interactions. , 2000, 38, 115-119.		26
13	Assessment of Detection and Refinement Strategies for de novo Protein Structures Using Force Field and Statistical Potentials. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 312-324.	5.3	26
14	Kinetic, Mutational, and Structural Studies of the Venezuelan Equine Encephalitis Virus Nonstructural Protein 2 Cysteine Protease. <i>Biochemistry</i> , 2016, 55, 3007-3019.	2.5	25
15	Efficient Conformational Sampling in Explicit Solvent Using a Hybrid Replica Exchange Molecular Dynamics Method. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 677-687.	5.3	24
16	Comparison between self-guided Langevin dynamics and molecular dynamics simulations for structure refinement of protein loop conformations. <i>Journal of Computational Chemistry</i> , 2011, 32, 3014-3022.	3.3	23
17	Small Molecule Analogues of the parasitic worm product ES-62 interact with the TIR domain of MyD88 to inhibit pro-inflammatory signaling. <i>Scientific Reports</i> , 2018, 8, 2123.	3.3	21
18	Comparison of volume and surface area nonpolar solvation free energy terms for implicit solvent simulations. <i>Journal of Chemical Physics</i> , 2013, 139, 044119.	3.0	20

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19	Modeling loop reorganization free energies of acetylcholinesterase: A comparison of explicit and implicit solvent models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 645-650.	2.6	17
20	Free-Energy Profiles of Membrane Insertion of the M2 Transmembrane Peptide from Influenza A Virus. <i>Biophysical Journal</i> , 2008, 95, 5021-5029.	0.5	17
21	Stability of isolated antibody-antigen complexes as a predictive tool for selecting toxin neutralizing antibodies. <i>MAbs</i> , 2017, 9, 43-57.	5.2	16
22	Structure refinement of protein model decoys requires accurate side-chain placement. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 469-478.	2.6	15
23	Structural and mutational analysis of a monomeric and dimeric form of a single domain antibody with implications for protein misfolding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3101-3116.	2.6	14
24	Evaluation of Unrestrained Replica-Exchange Simulations Using Dynamic Walkers in Temperature Space for Protein Structure Refinement. <i>PLoS ONE</i> , 2014, 9, e96638.	2.5	12
25	Molecular docking of superantigens with class II major histocompatibility complex proteins. <i>Journal of Molecular Recognition</i> , 1997, 10, 277-289.	2.1	11
26	Ex vivo inhibition of Clostridium botulinum neurotoxin types B, C, E, and F by small molecular weight inhibitors. <i>Toxicon</i> , 2015, 98, 12-19.	1.6	10
27	Experimental evaluation of single-domain antibodies predicted by molecular dynamics simulations to have elevated thermal stability. <i>Protein Science</i> , 2019, 28, 1909-1912.	7.6	9
28	Predicting differential antigen-antibody contact regions based on solvent accessibility. <i>The Protein Journal</i> , 1997, 16, 607-618.	1.1	8
29	Electrostatic effects on the free-energy balance in folding a ribosome-inactivating protein. <i>Biophysical Chemistry</i> , 2001, 91, 219-229.	2.8	8
30	Application of replica exchange umbrella sampling to protein structure refinement of nontemplate models. <i>Journal of Computational Chemistry</i> , 2013, 34, 1785-1793.	3.3	7
31	Can template-based protein models guide the design of sequence fitness for enhanced thermal stability of single domain antibodies?. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 395-402.	2.1	7
32	Accuracy of secondary structure and solvent accessibility predictions for a clostridial neurotoxin C-fragment. <i>The Protein Journal</i> , 1998, 17, 311-318.	1.1	5
33	Free-energy contributions to complex formation between botulinum neurotoxin type B and synaptobrevin fragment. <i>Protein Engineering, Design and Selection</i> , 2002, 15, 739-743.	2.1	5
34	On the Helix Propensity in Generalized Born Solvent Descriptions of Modeling the Dark Proteome. <i>Frontiers in Molecular Biosciences</i> , 2017, 4, 3.	3.5	5
35	Sequence Tolerance of a Single-Domain Antibody with a High Thermal Stability: Comparison of Computational and Experimental Fitness Profiles. <i>ACS Omega</i> , 2019, 4, 10444-10454.	3.5	4
36	Comparison of Replica Exchange Simulations of a Kinetically Trapped Protein Conformational State and its Native Form. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2234-2240.	2.6	3

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37	Membrane insertion of fusion peptides from Ebola and Marburg viruses studied by replica-exchange molecular dynamics simulations. <i>Journal of Computational Chemistry</i> , 2017, 38, 1342-1352.	3.3	3
38	Parallel Tempering of Dark Matter from the Ebola Virus Proteome: Comparison of CHARMM36m and CHARMM22 Force Fields with Implicit Solvent. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 111-118.	5.4	2
39	Conformational Selection of a Polyproline Peptide by Ebola Virus VP30. <i>Proteomics</i> , 2018, 18, e1800081.	2.2	2
40	Coarse-grained lattice model simulations of sequence-structure fitness of a ribosome-inactivating protein. <i>Biopolymers</i> , 2008, 89, 153-159.	2.4	1
41	Disorder-Order Transitions in Conformational Selection of a Peptide by Ebola Virus Nucleoprotein. <i>ACS Omega</i> , 2020, 5, 5691-5697.	3.5	1
42	Ricin A-chain structural determinant for binding substrate analogues: A molecular dynamics simulation analysis. , 1997, 27, 80.		1
43	Continuum Models of Macromolecular Association in Aqueous Solution. <i>Computational Chemistry - Reviews of Current Trends</i> , 1999, , 153-190.	0.4	0