

Paul S Nerenberg

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7051781/publications.pdf>

Version: 2024-02-01

20
papers

1,065
citations

623734

14
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

1410
citing authors

#	ARTICLE	IF	CITATIONS
1	New developments in force fields for biomolecular simulations. <i>Current Opinion in Structural Biology</i> , 2018, 49, 129-138.	5.7	181
2	Optimizing Protein-Solvent Force Fields to Reproduce Intrinsic Conformational Preferences of Model Peptides. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1220-1230.	5.3	149
3	Optimizing Solute-Water van der Waals Interactions To Reproduce Solvation Free Energies. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4524-4534.	2.6	145
4	Homogeneous and Heterogeneous Tertiary Structure Ensembles of Amyloid- β Peptides. <i>Biochemistry</i> , 2011, 50, 7612-7628.	2.5	130
5	Non-bonded force field model with advanced restrained electrostatic potential charges (RESP2). <i>Communications Chemistry</i> , 2020, 3, .	4.5	98
6	Perturbing the folding energy landscape of the bacterial immunity protein Im7 by site-specific N-linked glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22528-22533.	7.1	72
7	Differential Unfolding of β 1 and β 2 Chains in Type I Collagen and Collagenolysis. <i>Journal of Molecular Biology</i> , 2008, 382, 246-256.	4.2	37
8	Do collagenases unwind triple-helical collagen before peptide bond hydrolysis? Reinterpreting experimental observations with mathematical models. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1154-1161.	2.6	36
9	Cleavage Site Specificity and Conformational Selection in Type I Collagen Degradation. <i>Biochemistry</i> , 2010, 49, 4147-4158.	2.5	34
10	The Contribution of Interchain Salt Bridges to Triple-Helical Stability in Collagen. <i>Biophysical Journal</i> , 2010, 98, 2634-2643.	0.5	32
11	Disordered Structural Ensembles of Vasopressin and Oxytocin and Their Mutants. <i>Journal of Physical Chemistry B</i> , 2015, 119, 896-905.	2.6	32
12	Systematic Optimization of Water Models Using Liquid/Vapor Surface Tension Data. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7061-7073.	2.6	31
13	Optimizing Protein-Protein van der Waals Interactions for the AMBER ff9x/ff12 Force Field. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 273-281.	5.3	23
14	Embedding β 42 in Heterogeneous Membranes Depends on Cholesterol Asymmetries. <i>Biophysical Journal</i> , 2013, 105, 899-910.	0.5	18
15	Physical Basis of Metal-Binding Specificity in <i>Escherichia coli</i> NikR. <i>Journal of the American Chemical Society</i> , 2009, 131, 10220-10228.	13.7	14
16	Benchmarking Electronic Structure Methods for Accurate Fixed-Charge Electrostatic Models. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 249-258.	5.4	12
17	Building capacity for undergraduate education and training in computational molecular science: A collaboration between the MERCURY consortium and the Molecular Sciences Software Institute. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26359.	2.0	9
18	Development and Validation of AMBER-FB15-Compatible Force Field Parameters for Phosphorylated Amino Acids. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11927-11942.	2.6	8

#	ARTICLE	IF	CITATIONS
19	Phosphoserine inhibits neighboring arginine methylation in the RKS motif of histone H3. Archives of Biochemistry and Biophysics, 2021, 698, 108716.	3.0	4
20	Metal Preference At The Second Metal Binding Site Of E. coli NikR. Biophysical Journal, 2009, 96, 58a.	0.5	0