Peter Minary

List of Publications by Year
in descending order

27 papers	1,246 citations	430874 18 h-index	526287 27 g-index
28 all docs	28 docs citations	28 times ranked	1589 citing authors

#	Article	IF	Citations
1	crisprSQL: a novel database platform for CRISPR/Cas off-target cleavage assays. Nucleic Acids Research, 2021, 49, D855-D861.	14.5	16
2	Hierarchical natural move Monte Carlo refines flexible RNA structures into cryo-EM densities. Rna, 2020, 26, 1755-1766.	3.5	6
3	Training-free measures based on algorithmic probability identify high nucleosome occupancy in DNA sequences. Nucleic Acids Research, 2019, 47, e129-e129.	14.5	9
4	HLA-DM Stabilizes the Empty MHCII Binding Groove: A Model Using Customized Natural Move Monte Carlo. Journal of Chemical Information and Modeling, 2019, 59, 2894-2899.	5.4	1
5	In silico structural modeling of multiple epigenetic marks on DNA. Bioinformatics, 2018, 34, 41-48.	4.1	4
6	Exploring peptide/MHC detachment processes using hierarchical natural move Monte Carlo. Bioinformatics, 2016, 32, 181-186.	4.1	21
7	Modeling Functional Motions of Biological Systems by Customized Natural Moves. Biophysical Journal, 2016, 111, 710-721.	0.5	7
8	Tertiary Element Interaction in HIV-1 TAR. Journal of Chemical Information and Modeling, 2016, 56, 1746-1754.	5.4	8
9	Tuning Cytokine Receptor Signaling by Re-orienting Dimer Geometry with Surrogate Ligands. Cell, 2015, 160, 1196-1208.	28.9	138
10	Training-free atomistic prediction of nucleosome occupancy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6293-6298.	7.1	25
11	Multiscale natural moves refine macromolecules using single-particle electron microscopy projection images. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9845-9850.	7.1	32
12	Modeling and design by hierarchical natural moves. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2890-2895.	7.1	42
13	Modeling nucleic acids. Current Opinion in Structural Biology, 2012, 22, 273-278.	5.7	85
14	Conformational Optimization with Natural Degrees of Freedom: A Novel Stochastic Chain Closure Algorithm. Journal of Computational Biology, 2010, 17, 993-1010.	1.6	23
15	Probing Protein Fold Space with a Simplified Model. Journal of Molecular Biology, 2008, 375, 920-933.	4.2	36
16	Dynamical Spatial Warping: A Novel Method for the Conformational Sampling of Biophysical Structure. SIAM Journal of Scientific Computing, 2008, 30, 2055-2083.	2.8	23
17	Discussion of â€œEqui-energy samplerâ€•by Kou, Zhou and Wong. Annals of Statistics, 2006, 34, .	2.6	3
18	Ab initio molecular dynamics: Concepts, recent developments, and future trends. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6654-6659.	7.1	232

#	Article	IF	Citations
19	Reaction Mechanism of cis-1,3-Butadiene Addition to the Si(100)-2 Ã— 1 Surface. Journal of the American Chemical Society, 2005, 127, 1110-1111.	13.7	28
20	Long range interactions on wires: A reciprocal space based formalism. Journal of Chemical Physics, 2004, 121, 11949-11956.	3.0	24
21	Reaction Pathway of the [4 + 2] Dielsâ˜Alder Adduct Formation on Si(100)-2Ã—1. Journal of the American Chemical Society, 2004, 126, 13920-13921.	13.7	27
22	Algorithms and novel applications based on the isokinetic ensemble. I. Biophysical and path integral molecular dynamics. Journal of Chemical Physics, 2003, 118, 2510.	3.0	89
23	Algorithms and novel applications based on the isokinetic ensemble. II. Ab initio molecular dynamics. Journal of Chemical Physics, 2003, 118, 2527.	3.0	19
24	On the use of the adiabatic molecular dynamics technique in the calculation of free energy profiles. Journal of Chemical Physics, 2002, 116, 4389-4402.	3.0	203
25	A new reciprocal space based treatment of long range interactions on surfaces. Journal of Chemical Physics, 2002, 116, 5351-5362.	3.0	73
26	Non-linear response and hydrogen bond dynamics for electron solvation in methanol. Chemical Physics Letters, 2000, 316, 465-470.	2.6	36
27	Nonadiabatic molecular dynamics simulation of photoexcitation experiments for the solvated electron in methanol. Journal of Chemical Physics, 1999, 110, 10953-10962.	3.0	35