

Thomas Hamelryck

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24
papers

2,836
citations

13
h-index

33
g-index

33
ext. papers

3,990
ext. citations

4.6
avg, IF

4.28
L-index

#	Paper	IF	Citations
24	A community proposal to integrate structural bioinformatics activities in ELIXIR (3D-Bioinfo Community). <i>F1000Research</i> , 2020 , 9,	3.6	9
23	GISA: using Gauss Integrals to identify rare conformations in protein structures. <i>PeerJ</i> , 2020 , 8, e9159	3.1	2
22	Langevin diffusions on the torus: estimation and applications. <i>Statistics and Computing</i> , 2019 , 29, 1-22	1.8	5
21	MyPMFs: a simple tool for creating statistical potentials to assess protein structural models. <i>Biochimie</i> , 2018 , 151, 37-41	4.6	3
20	A Generative Angular Model of Protein Structure Evolution. <i>Molecular Biology and Evolution</i> , 2017 , 34, 2085-2100	8.3	9
19	Bayesian inference of protein ensembles from SAXS data. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 5832-8	3.6	39
18	Computational Redesign of Thioredoxin Is Hypersensitive toward Minor Conformational Changes in the Backbone Template. <i>Journal of Molecular Biology</i> , 2016 , 428, 4361-4377	6.5	13
17	Proteins, physics and probability kinematics: a Bayesian formulation of the protein folding problem. <i>Wiley Series in Probability and Statistics</i> , 2015 , 356-376	1.3	2
16	Bayesian inference of protein structure from chemical shift data. <i>PeerJ</i> , 2015 , 3, e861	3.1	8
15	Equilibrium simulations of proteins using molecular fragment replacement and NMR chemical shifts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13852-7	11.5	26
14	Probabilistic Determination of Native State Ensembles of Proteins. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3484-91	6.4	35
13	FragBuilder: an efficient Python library to setup quantum chemistry calculations on peptides models. <i>PeerJ</i> , 2014 , 2, e277	3.1	3
12	PHAISTOS: a framework for Markov chain Monte Carlo simulation and inference of protein structure. <i>Journal of Computational Chemistry</i> , 2013 , 34, 1697-705	3.5	31
11	Protein structure validation and refinement using amide proton chemical shifts derived from quantum mechanics. <i>PLoS ONE</i> , 2013 , 8, e84123	3.7	20
10	Inference of structure ensembles of flexible biomolecules from sparse, averaged data. <i>PLoS ONE</i> , 2013 , 8, e79439	3.7	41
9	Subtle Monte Carlo Updates in Dense Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 695-702	6.4	21
8	Mixtures of concentrated multivariate sine distributions with applications to bioinformatics. <i>Journal of Applied Statistics</i> , 2012 , 39, 2475-2492	1	13

7	Beyond rotamers: a generative, probabilistic model of side chains in proteins. <i>BMC Bioinformatics</i> , 2010 , 11, 306	3.6	32
6	Potentials of mean force for protein structure prediction vindicated, formalized and generalized. <i>PLoS ONE</i> , 2010 , 5, e13714	3.7	51
5	Probabilistic models and machine learning in structural bioinformatics. <i>Statistical Methods in Medical Research</i> , 2009 , 18, 505-26	2.3	13
4	Biopython: freely available Python tools for computational molecular biology and bioinformatics. <i>Bioinformatics</i> , 2009 , 25, 1422-3	7.2	2308
3	A generative, probabilistic model of local protein structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8932-7	11.5	84
2	Sampling realistic protein conformations using local structural bias. <i>PLoS Computational Biology</i> , 2006 , 2, e131	5	66
1	GISA: Using Gauss Integrals to identify rare conformations in protein structures		1