

Michael Habeck

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.

68

papers

3,593

citations

27

h-index

59

g-index

73

ext. papers

4,071

ext. citations

7.2

avg, IF

5.11

L-index

#	Paper	IF	Citations
68	Bayesian Random Tomography of Particle Systems. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 658269	5.6	
67	A graph-based algorithm for detecting rigid domains in protein structures. <i>BMC Bioinformatics</i> , 2021 , 22, 66	3.6	
66	Non-negative blind deconvolution for signal processing in a CRISPR-edited iPSC-cardiomyocyte model of dilated cardiomyopathy. <i>FEBS Letters</i> , 2021 , 595, 2544-2557	3.8	0
65	Bayesian inference of chromatin structure ensembles from population-averaged contact data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7824-7830	11.5	5
64	Architecture of the flexible tail tube of bacteriophage SPP1. <i>Nature Communications</i> , 2020 , 11, 5759	17.4	14
63	Auto-regulation of Rab5 GEF activity in Rabex5 by allosteric structural changes, catalytic core dynamics and ubiquitin binding. <i>ELife</i> , 2019 , 8,	8.9	8
62	A probabilistic network model for structural transitions in biomolecules. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018 , 86, 634-643	4.2	1
61	An evolutionarily conserved glycine-tyrosine motif forms a folding core in outer membrane proteins. <i>PLoS ONE</i> , 2017 , 12, e0182016	3.7	15
60	Data-driven coarse graining of large biomolecular structures. <i>PLoS ONE</i> , 2017 , 12, e0183057	3.7	6
59	Bayesian Modeling of Biomolecular Assemblies with Cryo-EM Maps. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 15	5.6	12
58	The adaptor protein CIN85 assembles intracellular signaling clusters for B cell activation. <i>Science Signaling</i> , 2016 , 9, ra66	8.8	11
57	Cooperative binding: a multiple personality. <i>Journal of Mathematical Biology</i> , 2016 , 72, 1747-74	2	11
56	Inferential Structure Determination of Chromosomes from Single-Cell Hi-C Data. <i>PLoS Computational Biology</i> , 2016 , 12, e1005292	5	36
55	Comparison of the kinetics of different Markov models for ligand binding under varying conditions. <i>Journal of Chemical Physics</i> , 2015 , 142, 094104	3.9	4
54	Bayesian inference of initial models in cryo-electron microscopy using pseudo-atoms. <i>Biophysical Journal</i> , 2015 , 108, 1165-75	2.9	12
53	Bayesian evidence and model selection 2015 , 47, 50-67		41
52	Solid-state NMR Study of the YadA Membrane-Anchored Domain in the Bacterial Outer Membrane. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12602-6	16.4	12

51	Hybrid Structure of the Type 1 Pilus of Uropathogenic Escherichia coli. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11691-5	16.4	27
50	Hybrid Structure of the Type 1 Pilus of Uropathogenic Escherichia coli. <i>Angewandte Chemie</i> , 2015 , 127, 11857-11861	3.6	3
49	Festkörper-NMR-Studien an der Membrananker-Domäne von YadA in der bakteriellen Außenmembran. <i>Angewandte Chemie</i> , 2015 , 127, 12792-12797	3.6	2
48	Structure and evolution of N-domains in AAA metalloproteases. <i>Journal of Molecular Biology</i> , 2015 , 427, 910-923	6.5	18
47	Bayesian approach to inverse statistical mechanics. <i>Physical Review E</i> , 2014 , 89, 052113	2.4	13
46	Kinetics or equilibrium? A commentary on a recent simulation study of semiochemical dose-response curves of insect olfactory sensing. <i>Journal of Chemical Ecology</i> , 2014 , 40, 1163-4	2.7	2
45	A derivation of the Grand Canonical Partition Function for systems with a finite number of binding sites using a Markov chain model for the dynamics of single molecules. <i>Journal of Mathematical Chemistry</i> , 2014 , 52, 665-674	2.1	4
44	Bayesian weighting of statistical potentials in NMR structure calculation. <i>PLoS ONE</i> , 2014 , 9, e100197	3.7	4
43	Structures of the human and Drosophila 80S ribosome. <i>Nature</i> , 2013 , 497, 80-5	50.4	358
42	Estimation of Interaction Potentials through the Configurational Temperature Formalism. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 5685-92	6.4	9
41	A probabilistic model for secondary structure prediction from protein chemical shifts. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013 , 81, 984-93	4.2	11
40	Confidence-guided local structure prediction with HHfrag. <i>PLoS ONE</i> , 2013 , 8, e76512	3.7	1
39	Inferential NMR/X-ray-based structure determination of a dibenzo[a,d]cycloheptenone inhibitor-p38MAP kinase complex in solution. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2359-62	16.4	6
38	CSB: a Python framework for structural bioinformatics. <i>Bioinformatics</i> , 2012 , 28, 2996-7	7.2	10
37	Membrane-protein structure determination by solid-state NMR spectroscopy of microcrystals. <i>Nature Methods</i> , 2012 , 9, 1212-7	21.6	128
36	Structure-activity analysis of the dermcidin-derived peptide DCD-1L, an anionic antimicrobial peptide present in human sweat. <i>Journal of Biological Chemistry</i> , 2012 , 287, 8434-43	5.4	72
35	Is the C-terminal insertional signal in Gram-negative bacterial outer membrane proteins species-specific or not?. <i>BMC Genomics</i> , 2012 , 13, 510	4.5	37
34	Inferential NMR/X-ray-Based Structure Determination of a Dibenzo[a,d]cycloheptenone Inhibitor-p38MAP Kinase Complex in Solution. <i>Angewandte Chemie</i> , 2012 , 124, 2409-2412	3.6	2

33	Calibration of Boltzmann distribution priors in Bayesian data analysis. <i>Physical Review E</i> , 2012 , 86, 066705-4	5.4	3
32	Bayesian estimation of free energies from equilibrium simulations. <i>Physical Review Letters</i> , 2012 , 109, 100601	7.4	28
31	Statistical mechanics analysis of sparse data. <i>Journal of Structural Biology</i> , 2011 , 173, 541-8	3.4	14
30	A blind deconvolution approach for improving the resolution of cryo-EM density maps. <i>Journal of Computational Biology</i> , 2011 , 18, 335-46	1.7	9
29	HHfrag: HMM-based fragment detection using HHpred. <i>Bioinformatics</i> , 2011 , 27, 3110-6	7.2	23
28	Cryo-EM structure and rRNA model of a translating eukaryotic 80S ribosome at 5.5-Å resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19748-53	11.5	158
27	Localization of eukaryote-specific ribosomal proteins in a 5.5-Å cryo-EM map of the 80S eukaryotic ribosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19754-9	11.5	112
26	Generation of three-dimensional random rotations in fitting and matching problems. <i>Computational Statistics</i> , 2009 , 24, 719-731	1	6
25	Influence of different assignment conditions on the determination of symmetric homodimeric structures with ARIA. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 75, 569-85	4.2	29
24	The GD box: a widespread noncontiguous supersecondary structural element. <i>Protein Science</i> , 2009 , 18, 1961-6	6.3	10
23	Structure and activity of the N-terminal substrate recognition domains in proteasomal ATPases. <i>Molecular Cell</i> , 2009 , 34, 580-90	17.6	106
22	Accurate NMR structures through minimization of an extended hybrid energy. <i>Structure</i> , 2008 , 16, 1305-12	4.2	43
21	Comparative analysis of structural and dynamic properties of the loaded and unloaded hemophore HasA: functional implications. <i>Journal of Molecular Biology</i> , 2008 , 376, 517-25	6.5	47
20	Mixture models for protein structure ensembles. <i>Bioinformatics</i> , 2008 , 24, 2184-92	7.2	8
19	Structure of the human voltage-dependent anion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15370-5	11.5	434
18	ISD: a software package for Bayesian NMR structure calculation. <i>Bioinformatics</i> , 2008 , 24, 1104-5	7.2	28
17	A unifying probabilistic framework for analyzing residual dipolar couplings. <i>Journal of Biomolecular NMR</i> , 2008 , 40, 135-44	3	16
16	Graphical analysis of NMR structural quality and interactive contact map of NOE assignments in ARIA. <i>BMC Structural Biology</i> , 2008 , 8, 30	2.7	4

15	Probabilistic structure calculation. <i>Comptes Rendus Chimie</i> , 2008 , 11, 356-369	2.7	3
14	Bayesian reconstruction of the density of states. <i>Physical Review Letters</i> , 2007 , 98, 200601	7.4	14
13	ARIA2: automated NOE assignment and data integration in NMR structure calculation. <i>Bioinformatics</i> , 2007 , 23, 381-2	7.2	404
12	Weighting of experimental evidence in macromolecular structure determination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1756-61	11.5	66
11	Error distribution derived NOE distance restraints. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006 , 64, 652-64	4.2	11
10	Structure validation of the Josephin domain of ataxin-3: conclusive evidence for an open conformation. <i>Journal of Biomolecular NMR</i> , 2006 , 36, 267-77	3	37
9	Modeling errors in NOE data with a log-normal distribution improves the quality of NMR structures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16026-7	16.4	34
8	Bayesian estimation of Karplus parameters and torsion angles from three-bond scalar couplings constants. <i>Journal of Magnetic Resonance</i> , 2005 , 177, 160-5	3	21
7	Inferential structure determination. <i>Science</i> , 2005 , 309, 303-6	33.3	268
6	Replica-exchange Monte Carlo scheme for bayesian data analysis. <i>Physical Review Letters</i> , 2005 , 94, 018105	10.5	56
5	Bayesian inference applied to macromolecular structure determination. <i>Physical Review E</i> , 2005 , 72, 031912	12	27
4	Correction of spin diffusion during iterative automated NOE assignment. <i>Journal of Magnetic Resonance</i> , 2004 , 167, 334-42	3	51
3	NOE assignment with ARIA 2.0: the nuts and bolts. <i>Methods in Molecular Biology</i> , 2004 , 278, 379-402	1.4	50
2	ARIA: automated NOE assignment and NMR structure calculation. <i>Bioinformatics</i> , 2003 , 19, 315-6	7.2	397
1	Structural and functional studies of titinwf3 modules reveal conserved surface patterns and binding to myosin S1--a possible role in the Frank-Starling mechanism of the heart. <i>Journal of Molecular Biology</i> , 2001 , 313, 431-47	6.5	82