

# Wouter Boomsma

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6346862/publications.pdf>

Version: 2024-02-01

24  
papers

1,155  
citations

430754

18  
h-index

610775

24  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Assignment of DNA Sequences Using Bayesian Phylogenetics. <i>Systematic Biology</i> , 2008, 57, 750-757.	2.7	170
2	Combining Experiments and Simulations Using the Maximum Entropy Principle. <i>PLoS Computational Biology</i> , 2014, 10, e1003406.	1.5	167
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, 8932-8937.	3.3	113
4	The PCNA interaction motifs revisited: thinking outside the PIP-box. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4923-4943.	2.4	77
5	Fast phylogenetic DNA barcoding. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 3997-4002.	1.8	64
6	Potentials of Mean Force for Protein Structure Prediction Vindicated, Formalized and Generalized. <i>PLoS ONE</i> , 2010, 5, e13714.	1.1	64
7	Learning meaningful representations of protein sequences. <i>Nature Communications</i> , 2022, 13, 1914.	5.8	55
8	Barnaba: software for analysis of nucleic acid structures and trajectories. <i>Rna</i> , 2019, 25, 219-231.	1.6	50
9	Inference of Structure Ensembles of Flexible Biomolecules from Sparse, Averaged Data. <i>PLoS ONE</i> , 2013, 8, e79439.	1.1	50
10	Bayesian inference of protein ensembles from SAXS data. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 5832-5838.	1.3	49
11	Beyond rotamers: a generative, probabilistic model of side chains in proteins. <i>BMC Bioinformatics</i> , 2010, 11, 306.	1.2	40
12	PHAISTOS: A framework for Markov chain Monte Carlo simulation and inference of protein structure. <i>Journal of Computational Chemistry</i> , 2013, 34, 1697-1705.	1.5	35
13	Single-particle diffusional fingerprinting: A machine-learning framework for quantitative analysis of heterogeneous diffusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	35
14	Fast large-scale clustering of protein structures using Gauss integrals. <i>Bioinformatics</i> , 2012, 28, 510-515.	1.8	29
15	Random coil chemical shifts for serine, threonine and tyrosine phosphorylation over a broad pH range. <i>Journal of Biomolecular NMR</i> , 2019, 73, 713-725.	1.6	24
16	Full cyclic coordinate descent: solving the protein loop closure problem in C $\alpha$ space. <i>BMC Bioinformatics</i> , 2005, 6, 159.	1.2	23
17	Subtle Monte Carlo Updates in Dense Molecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 695-702.	2.3	22
18	Protein Structure Validation and Refinement Using Amide Proton Chemical Shifts Derived from Quantum Mechanics. <i>PLoS ONE</i> , 2013, 8, e84123.	1.1	21

#	ARTICLE	IF	CITATIONS
19	Generative probabilistic models extend the scope of inferential structure determination. <i>Journal of Magnetic Resonance</i> , 2011, 213, 182-186.	1.2	17
20	IDDomainSpotter: Compositional bias reveals domains in long disordered protein regionsâ€”Insights from transcription factors. <i>Protein Science</i> , 2020, 29, 169-183.	3.1	14
21	Robust Estimation of Diffusion-Optimized Ensembles for Enhanced Sampling. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 543-553.	2.3	12
22	Driving Structural Transitions in Molecular Simulations Using the Nonequilibrium Candidate Monte Carlo. <i>Journal of Physical Chemistry B</i> , 2018, 122, 1195-1204.	1.2	7
23	Monte Carlo Sampling of Protein Folding by Combining an All-Atom Physics-Based Model with a Native State Bias. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11174-11185.	1.2	3
24	A Sticky Cage can Slow Down Folding. <i>Biophysical Journal</i> , 2013, 104, 964-965.	0.2	1