

# Dominik Gront

## List of Publications by Year in descending order

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56  
papers

2,316  
citations

394421

19  
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233421

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58  
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58  
docs citations

58  
times ranked

2731  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Unprecedented Number of Cytochrome P450s Are Involved in Secondary Metabolism in <i>Salinispora</i> Species. <i>Microorganisms</i> , 2022, 10, 871.	3.6	8
2	Contrasting Health Effects of Bacteroidetes and Firmicutes Lies in Their Genomes: Analysis of P450s, Ferredoxins, and Secondary Metabolite Clusters. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5057.	4.1	17
3	Lifestyles Shape the Cytochrome P450 Repertoire of the Bacterial Phylum Proteobacteria. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5821.	4.1	7
4	Automated Protein Secondary Structure Assignment from C $\alpha$ Positions Using Neural Networks. <i>Biomolecules</i> , 2022, 12, 841.	4.0	1
5	In Silico Analysis of P450s and Their Role in Secondary Metabolism in the Bacterial Class Gammaproteobacteria. <i>Molecules</i> , 2021, 26, 1538.	3.8	11
6	Ancient Bacterial Class Alphaproteobacteria Cytochrome P450 Monooxygenases Can Be Found in Other Bacterial Species. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5542.	4.1	9
7	VisuaLife: library for interactive visualization in rich web applications. <i>Bioinformatics</i> , 2021, 37, 3662-3663.	4.1	6
8	In Silico Structural Modeling and Analysis of Interactions of Tremellomycetes Cytochrome P450 Monooxygenases CYP51s with Substrates and Azoles. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7811.	4.1	4
9	Diversification of Ferredoxins across Living Organisms. <i>Current Issues in Molecular Biology</i> , 2021, 43, 1374-1390.	2.4	9
10	Ensuring scientific reproducibility in bio-macromolecular modeling via extensive, automated benchmarks. <i>Nature Communications</i> , 2021, 12, 6947.	12.8	16
11	More P450s Are Involved in Secondary Metabolite Biosynthesis in <i>Streptomyces</i> Compared to <i>Bacillus</i> , <i>Cyanobacteria</i> , and <i>Mycobacterium</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 4814.	4.1	20
12	Better together: Elements of successful scientific software development in a distributed collaborative community. <i>PLoS Computational Biology</i> , 2020, 16, e1007507.	3.2	27
13	Practical Considerations for Atomistic Structure Modeling with Cryo-EM Maps. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2436-2442.	5.4	11
14	Macromolecular modeling and design in Rosetta: recent methods and frameworks. <i>Nature Methods</i> , 2020, 17, 665-680.	19.0	513
15	BioShell 3.0: Library for Processing Structural Biology Data. <i>Biomolecules</i> , 2020, 10, 461.	4.0	7
16	Comparison of $\alpha$ -Helix and $\beta$ -Sheet Structure Adaptation to a Quantum Dot Geometry: Toward the Identification of an Optimal Motif for a Protein Nanoparticle Cover. <i>ACS Omega</i> , 2019, 4, 13086-13099.	3.5	10
17	Parallel Implementation of a Sequential Markov Chain in Monte Carlo Simulations of Physical Systems with Pairwise Interactions. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 2797-2806.	5.3	2
18	Protein Structure Prediction Using Coarse-Grained Models. <i>Springer Series on Bio- and Neurosystems</i> , 2019, , 27-59.	0.2	3

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19	Denatured proteins and early folding intermediates simulated in a reduced conformational space.. Acta Biochimica Polonica, 2019, 53, 131-143.	0.5	25
20	Coarse-Grained Modeling of the Interplay between Secondary Structure Propensities and Protein Fold Assembly. Journal of Chemical Theory and Computation, 2018, 14, 2277-2287.	5.3	9
21	In silico analysis of cytochrome P450 monooxygenases in chronic granulomatous infectious fungus <i>Sporothrix schenckii</i> : Special focus on CYP51. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2018, 1866, 166-177.	2.3	17
22	Mutation goals in the vitamin D receptor predicted by computational methods. Journal of Steroid Biochemistry and Molecular Biology, 2018, 183, 210-220.	2.5	0
23	SURPASS Low-Resolution Coarse-Grained Protein Modeling. Journal of Chemical Theory and Computation, 2017, 13, 5766-5779.	5.3	18
24	Biofunctionalisation of p-doped silicon with cytochrome c <sub>553</sub> minimises charge recombination and enhances photovoltaic performance of the all-solid-state photosystem I-based biophotocathode. RSC Advances, 2017, 7, 47854-47866.	3.6	21
25	Coarse-Grained Protein Models and Their Applications. Chemical Reviews, 2016, 116, 7898-7936.	47.7	721
26	Improving thermal stability of thermophilic l -threonine aldolase from <i>Thermotoga maritima</i> . Journal of Biotechnology, 2015, 199, 69-76.	3.8	8
27	Assessing Uncertainty in the Polish Agricultural Greenhouse Gas Emission Inventory Using Monte Carlo Simulation. Outlook on Agriculture, 2014, 43, 61-65.	3.4	8
28	BioShell-Threading: versatile Monte Carlo package for protein 3D threading. BMC Bioinformatics, 2014, 15, 22.	2.6	17
29	Coarse-Grained Protein Models in Structure Prediction. Springer Series in Bio-/neuroinformatics, 2014, , 25-53.	0.1	1
30	De Novo Protein Structure Determination from Incomplete Experimental Data. Biophysical Journal, 2013, 104, 228a.	0.5	0
31	Combining Coarse-Grained Protein Models with Replica-Exchange All-Atom Molecular Dynamics. International Journal of Molecular Sciences, 2013, 14, 9893-9905.	4.1	22
32	BioShell Threader: protein homology detection based on sequence profiles and secondary structure profiles. Nucleic Acids Research, 2012, 40, W257-W262.	14.5	10
33	Assessing the accuracy of template-based structure prediction metaservers by comparison with structural genomics structures. Journal of Structural and Functional Genomics, 2012, 13, 213-225.	1.2	10
34	Optimization of Profile-to-Profile Alignment Parameters for One-Dimensional Threading. Journal of Computational Biology, 2012, 19, 879-886.	1.6	4
35	From Coarse-Grained to Atomic-Level Characterization of Protein Dynamics: Transition State for the Folding of B Domain of Protein A. Journal of Physical Chemistry B, 2012, 116, 7026-7032.	2.6	31
36	Optimization of protein models. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2012, 2, 479-493.	14.6	32

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37	Generalized Fragment Picking in Rosetta: Design, Protocols and Applications. PLoS ONE, 2011, 6, e23294.	2.5	172
38	The crystal structure of the AF2331 protein from <i>Archaeoglobus fulgidus</i> DSM 4304 forms an unusual interdigitated dimer with a new type of $I\pm + I^2$ fold. Protein Science, 2009, 18, 2410-2419.	7.6	11
39	Fast and accurate methods for predicting short-range constraints in protein models. Journal of Computer-Aided Molecular Design, 2008, 22, 783-788.	2.9	0
40	Utility library for structural bioinformatics. Bioinformatics, 2008, 24, 584-585.	4.1	38
41	Efficient scheme for optimization of parallel tempering Monte Carlo method. Journal of Physics Condensed Matter, 2007, 19, 036225.	1.8	25
42	Comparative modeling without implicit sequence alignments. Bioinformatics, 2007, 23, 2522-2527.	4.1	16
43	T-Pile a package for thermodynamic calculations for biomolecules. Bioinformatics, 2007, 23, 1840-1842.	4.1	3
44	Backbone building from quadrilaterals: A fast and accurate algorithm for protein backbone reconstruction from alpha carbon coordinates. Journal of Computational Chemistry, 2007, 28, 1593-1597.	3.3	102
45	Towards the high-resolution protein structure prediction. Fast refinement of reduced models with all-atom force field. BMC Structural Biology, 2007, 7, 43.	2.3	45
46	Type II restriction endonuclease R.Eco29kl is a member of the GIY-YIG nuclease superfamily. BMC Structural Biology, 2007, 7, 48.	2.3	32
47	BioShell—a package of tools for structural biology computations. Bioinformatics, 2006, 22, 621-622.	4.1	44
48	Denatured proteins and early folding intermediates simulated in a reduced conformational space. Acta Biochimica Polonica, 2006, 53, 131-44.	0.5	10
49	Clustering as a supporting tool for structural drug design. Acta Poloniae Pharmaceutica, 2006, 63, 436-8.	0.1	0
50	Protein structure prediction by tempering spatial constraints. Journal of Computer-Aided Molecular Design, 2005, 19, 603-608.	2.9	3
51	Exploring protein energy landscapes with hierarchical clustering. International Journal of Quantum Chemistry, 2005, 105, 826-830.	2.0	21
52	HCPM—program for hierarchical clustering of protein models. Bioinformatics, 2005, 21, 3179-3180.	4.1	30
53	A new approach to prediction of short-range conformational propensities in proteins. Bioinformatics, 2005, 21, 981-987.	4.1	8
54	A simple lattice model that exhibits a protein-like cooperative all-or-none folding transition. Biopolymers, 2003, 69, 399-405.	2.4	21

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55	A new combination of replica exchange Monte Carlo and histogram analysis for protein folding and thermodynamics. <i>Journal of Chemical Physics</i> , 2001, 115, 1569-1574.	3.0	29
56	Comparison of three Monte Carlo conformational search strategies for a proteinlike homopolymer model: Folding thermodynamics and identification of low-energy structures. <i>Journal of Chemical Physics</i> , 2000, 113, 5065.	3.0	66