

Mateusz Chwastyk

List of Publications by Year in descending order

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21
papers

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758635

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docs citations

22
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Contact-Based Analysis of Aggregation of Intrinsically Disordered Proteins. <i>Methods in Molecular Biology</i> , 2022, 2340, 105-120.	0.4	1
2	Nascent Folding of Proteins Across the Three Domains of Life. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 692230.	1.6	3
3	Conformational Biases of α -Synuclein and Formation of Transient Knots. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11-19.	1.2	12
4	Properties of Cavities in Biological Structures—A Survey of the Protein Data Bank. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 591381.	1.6	11
5	Quantitative determination of mechanical stability in the novel coronavirus spike protein. <i>Nanoscale</i> , 2020, 12, 16409-16413.	2.8	49
6	Transient knots in intrinsically disordered proteins and neurodegeneration. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 174, 79-103.	0.9	5
7	Networks of interbasin traffic in intrinsically disordered proteins. <i>Physical Review Research</i> , 2020, 2, .	1.3	7
8	Topological transformations in proteins: effects of heating and proximity of an interface. <i>Scientific Reports</i> , 2017, 7, 39851.	1.6	15
9	Structural entanglements in protein complexes. <i>Journal of Chemical Physics</i> , 2017, 146, 225102.	1.2	14
10	Elastic moduli of biological fibers in a coarse-grained model: crystalline cellulose and β -amyloids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28195-28206.	1.3	27
11	Non-local effects of point mutations on the stability of a protein module. <i>Journal of Chemical Physics</i> , 2017, 147, 105101.	1.2	6
12	The volume of cavities in proteins and virus capsids. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1275-1286.	1.5	22
13	Coarse-grained model of the native cellulose α and the transformation pathways to the β allomorph. <i>Cellulose</i> , 2016, 23, 1573-1591.	2.4	29
14	Multiple folding pathways of proteins with shallow knots and co-translational folding. <i>Journal of Chemical Physics</i> , 2015, 143, 045101.	1.2	25
15	Cotranslational folding of deeply knotted proteins. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354105.	0.7	40
16	Statistical radii associated with amino acids to determine the contact map: fixing the structure of a type I cohesin domain in the <i>Clostridium thermocellum</i> cellulosome. <i>Physical Biology</i> , 2015, 12, 046002.	0.8	22
17	Polysaccharide—Protein Complexes in a Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12028-12041.	1.2	38
18	Synthesis of ZnAl_2O_4 :(Er^{3+} , Yb^{3+}) spinel-type nanocrystalline upconverting luminescent marker in HeLa carcinoma cells, using a combustion aerosol method route. <i>RSC Advances</i> , 2014, 4, 56596-56604.	1.7	29

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19	Theoretical tests of the mechanical protection strategy in protein nanomechanics. Proteins: Structure, Function and Bioinformatics, 2014, 82, 717-726.	1.5	13
20	Knotted Proteins under Tension. Israel Journal of Chemistry, 2014, 54, 1241-1249.	1.0	3
21	Structure-based analysis of thermodynamic and mechanical properties of cavity-containing proteins—case study of plant pathogenesis-related proteins of class 10. FEBS Journal, 2014, 281, 416-429.	2.2	30