

# Mateusz Chwastyk

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

403  
citations

758635

12  
h-index

794141

19  
g-index

22  
all docs

22  
docs citations

22  
times ranked

567  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative determination of mechanical stability in the novel coronavirus spike protein. <i>Nanoscale</i> , 2020, 12, 16409-16413.	2.8	49
2	Cotranslational folding of deeply knotted proteins. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354105.	0.7	40
3	Polysaccharide-Protein Complexes in a Coarse-Grained Model. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12028-12041.	1.2	38
4	Structure-based analysis of thermodynamic and mechanical properties of cavity-containing proteins—A case study of plant pathogenesis-related proteins of class 10. <i>FEBS Journal</i> , 2014, 281, 416-429.	2.2	30
5	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
6	Coarse-grained model of the native cellulose $\alpha$ and the transformation pathways to the $\beta$ allomorph. <i>Cellulose</i> , 2016, 23, 1573-1591.	2.4	29
7	Elastic moduli of biological fibers in a coarse-grained model: crystalline cellulose and $\beta$ -amyloids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28195-28206.	1.3	27
8	Multiple folding pathways of proteins with shallow knots and co-translational folding. <i>Journal of Chemical Physics</i> , 2015, 143, 045101.	1.2	25
9	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
10	The volume of cavities in proteins and virus capsids. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 1275-1286.	1.5	22
11	Topological transformations in proteins: effects of heating and proximity of an interface. <i>Scientific Reports</i> , 2017, 7, 39851.	1.6	15
12	Structural entanglements in protein complexes. <i>Journal of Chemical Physics</i> , 2017, 146, 225102.	1.2	14
13	Theoretical tests of the mechanical protection strategy in protein nanomechanics. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 717-726.	1.5	13
14	Conformational Biases of $\beta$ -Synuclein and Formation of Transient Knots. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11-19.	1.2	12
15	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
16	Networks of interbasin traffic in intrinsically disordered proteins. <i>Physical Review Research</i> , 2020, 2, .	1.3	7
17	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
18	Transient knots in intrinsically disordered proteins and neurodegeneration. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 174, 79-103.	0.9	5

#	ARTICLE	IF	CITATIONS
19	Knotted Proteins under Tension. Israel Journal of Chemistry, 2014, 54, 1241-1249.	1.0	3
20	Nascent Folding of Proteins Across the Three Domains of Life. Frontiers in Molecular Biosciences, 2021, 8, 692230.	1.6	3
21	Contact-Based Analysis of Aggregation of Intrinsically Disordered Proteins. Methods in Molecular Biology, 2022, 2340, 105-120.	0.4	1