

Gia G Maisuradze

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,311
citations

430874

18
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

1403
citing authors

#	ARTICLE	IF	CITATIONS
1	Principal Component Analysis for Protein Folding Dynamics. <i>Journal of Molecular Biology</i> , 2009, 385, 312-329.	4.2	331
2	Relation between Free Energy Landscapes of Proteins and Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 583-595.	5.3	132
3	Free energy landscape of a biomolecule in dihedral principal component space: Sampling convergence and correspondence between structures and minima. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 569-578.	2.6	107
4	Investigation of Protein Folding by Coarse-Grained Molecular Dynamics with the UNRES Force Field. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4471-4485.	2.5	91
5	Simulation of the Opening and Closing of Hsp70 Chaperones by Coarse-Grained Molecular Dynamics. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1750-1764.	5.3	63
6	How main-chains of proteins explore the free-energy landscape in native states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19708-19713.	7.1	52
7	How Adequate are One- and Two-Dimensional Free Energy Landscapes for Protein Folding Dynamics?. <i>Physical Review Letters</i> , 2009, 102, 238102.	7.8	48
8	Determination of side-chain rotamer and side-chain and backbone virtual bond stretching potentials of mean force from AM1 energy surfaces of terminally blocked amino acid residues, for coarse-grained simulations of protein structure and folding. II. Results, comparison with statistical potentials, and implementation in the UNRES force field. <i>Journal of Computational Chemistry</i> , 2010, 31, 1154-1167.	3.3	36
9	Folding kinetics of WW domains with the united residue force field for bridging microscopic motions and experimental measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18243-18248.	7.1	36
10	Lysosomal enzyme tripeptidyl peptidase 1 destabilizes fibrillar A β by multiple endoproteolytic cleavages within the β -sheet domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1493-1498.	7.1	33
11	Elucidating Important Sites and the Mechanism for Amyloid Fibril Formation by Coarse-Grained Molecular Dynamics. <i>ACS Chemical Neuroscience</i> , 2017, 8, 201-209.	3.5	32
12	Evidence, from Simulations, of a Single State with Residual Native Structure at the Thermal Denaturation Midpoint of a Small Globular Protein. <i>Journal of the American Chemical Society</i> , 2010, 132, 9444-9452.	13.7	31
13	Anomalous diffusion and dynamical correlation between the side chains and the main chain of proteins in their native state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10346-10351.	7.1	29
14	Nonexponential decay of internal rotational correlation functions of native proteins and self-similar structural fluctuations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19844-19849.	7.1	28
15	Sequence-, structure-, and dynamics-based comparisons of structurally homologous CheY-like proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1578-1583.	7.1	24
16	From a Highly Disordered to a Metastable State: Uncovering Insights of β -Synuclein. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1051-1065.	3.5	22
17	Dependence of the Formation of Tau and A β Peptide Mixed Aggregates on the Secondary Structure of the N-Terminal Region of A β . <i>Journal of Physical Chemistry B</i> , 2018, 122, 7049-7056.	2.6	22
18	New Insights into Protein (Un)Folding Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1082-1086.	4.6	20

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19	Accounting for a mirror-image conformation as a subtle effect in protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8458-8463.	7.1	19
20	Local vs Global Motions in Protein Folding. Journal of Chemical Theory and Computation, 2013, 9, 2907-2921.	5.3	18
21	Kinks, loops, and protein folding, with protein A as an example. Journal of Chemical Physics, 2014, 140, 025101.	3.0	18
22	Effects of Mutation, Truncation, and Temperature on the Folding Kinetics of a WW Domain. Journal of Molecular Biology, 2012, 420, 350-365.	4.2	17
23	Preventing fibril formation of a protein by selective mutation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13549-13554.	7.1	17
24	Theory of inhomogeneous environmental gaussian broadening of resonance Raman excitation profiles for polyatomic molecules in solution. Journal of Raman Spectroscopy, 1989, 20, 359-365.	2.5	14
25	Hidden Protein Folding Pathways in Free-Energy Landscapes Uncovered by Network Analysis. Journal of Chemical Theory and Computation, 2012, 8, 1176-1189.	5.3	13
26	Investigation of Phosphorylation-Induced Folding of an Intrinsically Disordered Protein by Coarse-Grained Molecular Dynamics. Journal of Chemical Theory and Computation, 2021, 17, 3203-3220.	5.3	11
27	Curvature and Torsion of Protein Main Chain as Local Order Parameters of Protein Unfolding. Journal of Physical Chemistry B, 2020, 124, 4391-4398.	2.6	9
28	Missense Mutations Modify the Conformational Ensemble of the $\hat{I}\pm$ -Synuclein Monomer Which Exhibits a Two-Phase Characteristic. Frontiers in Molecular Biosciences, 2021, 8, 786123.	3.5	9
29	Wild-Type $\hat{I}\pm$ -Synuclein and Variants Occur in Different Disordered Dimers and Pre-Fibrillar Conformations in Early Stage of Aggregation. Frontiers in Molecular Biosciences, 0, 9, .	3.5	7
30	Statistical Model To Decipher Protein Folding/Unfolding at a Local Scale. Journal of Physical Chemistry B, 2018, 122, 3540-3549.	2.6	6
31	Eliminating a Protein Folding Intermediate by Tuning a Local Hydrophobic Contact. Journal of Physical Chemistry B, 2017, 121, 3276-3284.	2.6	5
32	New Insights into Folding, Misfolding, and Nonfolding Dynamics of a WW Domain. Journal of Physical Chemistry B, 2020, 124, 3855-3872.	2.6	4
33	Mechanistic Kinetic Model Reveals How Amyloidogenic Hydrophobic Patches Facilitate the Amyloid- \hat{I}^2 Fibril Elongation. ACS Chemical Neuroscience, 2022, 13, 987-1001.	3.5	4
34	How Useful can the Voigt Profile be in Protein Folding Processes?. Protein Journal, 2021, 40, 140-147.	1.6	1
35	Microscopic Physics-Based Models of Proteins and Nucleic Acids. , 2017, , 67-120.		1
36	Probing Protein Aggregation Using the Coarse-Grained UNRES Force Field. Methods in Molecular Biology, 2022, 2340, 79-104.	0.9	1

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37	Tribute to Harold A. Scheraga. Journal of Physical Chemistry B, 2020, 124, 10301-10302.	2.6	0