

Taras Pogorelov

List of Publications by Year in descending order

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44
papers

1,527
citations

430874

18
h-index

395702

33
g-index

51
all docs

51
docs citations

51
times ranked

2067
citing authors

#	ARTICLE	IF	CITATIONS
1	Photodynamics in Complex Environments: <i>Ab Initio</i> Multiple Spawning Quantum Mechanical/Molecular Mechanical Dynamics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3280-3291.	2.6	259
2	Ab initio protein structure prediction. <i>Current Opinion in Structural Biology</i> , 2002, 12, 176-181.	5.7	176
3	Accelerating Membrane Insertion of Peripheral Proteins with a Novel Membrane Mimetic Model. <i>Biophysical Journal</i> , 2012, 102, 2130-2139.	0.5	123
4	Bioinformatic Mapping of Radical <i>S</i> -Adenosylmethionine-Dependent Ribosomally Synthesized and Post-Translationally Modified Peptides Identifies New C ¹ , C ² , and C ³ -Linked Thioether-Containing Peptides. <i>Journal of the American Chemical Society</i> , 2019, 141, 8228-8238.	13.7	123
5	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. <i>Cell</i> , 2019, 179, 1098-1111.e23.	28.9	122
6	Molecular Determinants of Phospholipid Synergy in Blood Clotting. <i>Journal of Biological Chemistry</i> , 2011, 286, 23247-23253.	3.4	94
7	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. <i>Biophysical Journal</i> , 2015, 109, 2012-2022.	0.5	89
8	Structural insights into enzymatic [4+2] <i>aza</i> -cycloaddition in thiopeptide antibiotic biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12928-12933.	7.1	70
9	Partitioning of Amino Acids into a Model Membrane: Capturing the Interface. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1481-1492.	2.6	48
10	Atomic-level description of protein-lipid interactions using an accelerated membrane model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1573-1583.	2.6	40
11	In-Cell Protein-Protein Contacts: Transient Interactions in the Crowd. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5667-5673.	4.6	40
12	Variations in the Fast Folding Rates of the λ -Repressor: A Hybrid Molecular Dynamics Study. <i>Biophysical Journal</i> , 2004, 87, 207-214.	0.5	34
13	Efficient Exploration of Membrane-Associated Phenomena at Atomic Resolution. <i>Journal of Membrane Biology</i> , 2015, 248, 563-582.	2.1	33
14	Bioinformatics-Guided Expansion and Discovery of Graspptides. <i>ACS Chemical Biology</i> , 2021, 16, 2787-2797.	3.4	31
15	Conformational Dynamics of the Human Islet Amyloid Polypeptide in a Membrane Environment: Toward the Aggregation Prone Form. <i>Biochemistry</i> , 2016, 55, 2031-2042.	2.5	27
16	Cytochrome <i>c</i> Exit Strategy: Dissociation Studies and Evolutionary Implications. <i>Journal of Physical Chemistry B</i> , 2007, 111, 618-634.	2.6	25
17	Mapping fast protein folding with multiple-site fluorescent probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7966-7971.	7.1	24
18	Protein-Phospholipid interactions in blood clotting. <i>Thrombosis Research</i> , 2010, 125, S23-S25.	1.7	23

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19	Extension of the Highly Mobile Membrane Mimetic to Transmembrane Systems through Customized <i>in Silico</i> Solvents. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3764-3776.	2.6	19
20	Crowding, Sticking, and Partial Folding of GTT WW Domain in a Small Cytoplasm Model. <i>Journal of Physical Chemistry B</i> , 2020, 124, 4732-4740.	2.6	18
21	C3-OH of Amphotericin B Plays an Important Role in Ion Conductance. <i>Journal of the American Chemical Society</i> , 2015, 137, 15102-15104.	13.7	16
22	Calcium-Induced Lipid Nanocluster Structures: Sculpturing of the Plasma Membrane. <i>Biochemistry</i> , 2018, 57, 6897-6905.	2.5	14
23	Discovery of Prenyltransferase Inhibitors with <i>In Vitro</i> and <i>In Vivo</i> Antibacterial Activity. <i>ACS Infectious Diseases</i> , 2020, 6, 2979-2993.	3.8	14
24	Can Local Probes Go Global? A Joint Experimental-Simulation Analysis of α -85 Folding. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1960-1965.	4.6	12
25	Fast pressure-jump all-atom simulations and experiments reveal site-specific protein dehydration-folding dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5356-5361.	7.1	10
26	Fungicidal amphotericin B sponges are assemblies of staggered asymmetric homodimers encasing large void volumes. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 972-981.	8.2	10
27	A cancer mutation promotes EphA4 oligomerization and signaling by altering the conformation of the SAM domain. <i>Journal of Biological Chemistry</i> , 2021, 297, 100876.	3.4	9
28	Filling Up the Heme Pocket Stabilizes Apomyoglobin and Speeds Up Its Folding. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6511-6518.	2.6	8
29	Coaction of Electrostatic and Hydrophobic Interactions: Dynamic Constraints on Disordered TrkA Juxtamembrane Domain. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10709-10717.	2.6	5
30	Sonification-Enhanced Lattice Model Animations for Teaching the Protein Folding Reaction. <i>Journal of Chemical Education</i> , 2022, 99, 1220-1230.	2.3	4
31	Control of Nucleophile Chemoselectivity in Cyanobactin YcaO Heterocyclases PatD and TruD. <i>ACS Chemical Biology</i> , 2022, 17, 1215-1225.	3.4	3
32	Characterizing Structure and Dynamics of Calcium-Induced Clusters of Phosphatidylserine in Mixed Lipid Bilayers. <i>Biophysical Journal</i> , 2011, 100, 172a.	0.5	1
33	Glycophorin a Helix Insertion, Positioning, and Dimerization in Model Membranes. <i>Biophysical Journal</i> , 2012, 102, 413a.	0.5	1
34	Calcium-Induced Sculpturing of the Plasma Membrane: Lipid Microclusters Cast by Anionic Lipids. <i>Biophysical Journal</i> , 2017, 112, 467a-468a.	0.5	1
35	Spontaneous Binding of Membrane-Anchoring Proteins Captured with a Highly Mobile Membrane-Mimetic Model. <i>Biophysical Journal</i> , 2011, 100, 639a-640a.	0.5	0
36	Host Defense Peptides: Molecular Details of Attack on Bacterial and Neoplastic Mammalian Model Membranes. <i>Biophysical Journal</i> , 2013, 104, 21a.	0.5	0

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37	Mapping the Mechanism of Fast Protein Folding with Multiple Probes. Biophysical Journal, 2015, 108, 347a-348a.	0.5	0
38	CDD., 2015, ,.		0
39	Atomic Resolution Studies of Sterol Interactions by Solid-State NMR Spectroscopy. Biophysical Journal, 2016, 110, 36a.	0.5	0
40	Capturing Transmembrane Dimer Structures with Mobile Membranes: Point Mutations Take Charge. Biophysical Journal, 2016, 110, 427a-428a.	0.5	0
41	Anionic Lipids Take Charge: Juxtamembrane Domain Interactions with Cellular Membrane. Biophysical Journal, 2018, 114, 463a.	0.5	0
42	The Role of TMAO in Protein Folding: A Joint Experimental and Simulation Study. Biophysical Journal, 2018, 114, 51a.	0.5	0
43	Fast Pressure Jump Reveals Site-Specific Protein Dehydration-Folding Dynamics. Biophysical Journal, 2019, 116, 38a.	0.5	0
44	Describing Antifungal Drug-Sterol Interactions Inside the Membrane: The Role of Dynamics. Biophysical Journal, 2021, 120, 191a.	0.5	0