Taras Pogorelov

List of Publications by Year in descending order

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	Sonification-Enhanced Lattice Model Animations for Teaching the Protein Folding Reaction. Journal of Chemical Education, 2022, 99, 1220-1230.	2.3	4
2	Control of Nucleophile Chemoselectivity in Cyanobactin YcaO Heterocyclases PatD and TruD. ACS Chemical Biology, 2022, 17, 1215-1225.	3.4	3
3	Describing Antifungal Drug-Sterol Interactions Inside the Membrane: The Role of Dynamics. Biophysical Journal, 2021, 120, 191a.	0.5	0
4	A cancer mutation promotes EphA4 oligomerization and signaling by altering the conformation of the SAM domain. Journal of Biological Chemistry, 2021, 297, 100876.	3.4	9
5	Bioinformatics-Guided Expansion and Discovery of Graspetides. ACS Chemical Biology, 2021, 16, 2787-2797.	3.4	31
6	Fungicidal amphotericin B sponges are assemblies of staggered asymmetric homodimers encasing large void volumes. Nature Structural and Molecular Biology, 2021, 28, 972-981.	8.2	10
7	Discovery of Prenyltransferase Inhibitors with In Vitro and In Vivo Antibacterial Activity. ACS Infectious Diseases, 2020, 6, 2979-2993.	3.8	14
8	Crowding, Sticking, and Partial Folding of GTT WW Domain in a Small Cytoplasm Model. Journal of Physical Chemistry B, 2020, 124, 4732-4740.	2.6	18
9	Atoms to Phenotypes: Molecular Design Principles of Cellular Energy Metabolism. Cell, 2019, 179, 1098-1111.e23.	28.9	122
10	In-Cell Proteinâ€“Protein Contacts: Transient Interactions in the Crowd. Journal of Physical Chemistry Letters, 2019, 10, 5667-5673.	4.6	40
11	Bioinformatic Mapping of Radical S-Adenosylmethionine-Dependent Ribosomally Synthesized and Post-Translationally Modified Peptides Identifies New Cî±, Cî², and Cî³-Linked Thioether-Containing Peptides. Journal of the American Chemical Society, 2019, 141, 8228-8238.	13.7	123
12	Fast Pressure Jump Reveals Site-Specific Protein Dehydration-Folding Dynamics. Biophysical Journal, 2019, 116, 38a.	0.5	0
13	Fast pressure-jump all-atom simulations and experiments reveal site-specific protein dehydration-folding dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5356-5361.	7.1	10
14	Coaction of Electrostatic and Hydrophobic Interactions: Dynamic Constraints on Disordered TrkA Juxtamembrane Domain. Journal of Physical Chemistry B, 2019, 123, 10709-10717.	2.6	5
15	Anionic Lipids Take Charge: Juxtamembrane Domain Interactions with Cellular Membrane. Biophysical Journal, 2018, 114, 463a.	0.5	0
16	Calcium-Induced Lipid Nanocluster Structures: Sculpturing of the Plasma Membrane. Biochemistry, 2018, 57, 6897-6905.	2.5	14
17	The Role of TMAO in Protein Folding: A Joint Experimental and Simulation Study. Biophysical Journal, 2018, 114, 51a.	0.5	0
18	Calcium-Induced Sculpturing of the Plasma Membrane: Lipid Microclusters Cast by Anionic Lipids. Biophysical Journal, 2017, 112, 467a-468a.	0.5	1

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19	Extension of the Highly Mobile Membrane Mimetic to Transmembrane Systems through Customized in Silico Solvents. Journal of Physical Chemistry B, 2017, 121, 3764-3776.	2.6	19
20	Structural insights into enzymatic [4+2] aza -cycloaddition in thiopeptide antibiotic biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12928-12933.	7.1	70
21	Atomic Resolution Studies of Sterol Interactions by Solid-State NMR Spectroscopy. Biophysical Journal, 2016, 110, 36a.	0.5	0
22	Atomic-level description of proteinâ€“lipid interactions using an accelerated membrane model. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1573-1583.	2.6	40
23	Capturing Transmembrane Dimer Structures with Mobile Membranes: Point Mutations Take Charge. Biophysical Journal, 2016, 110, 427a-428a.	0.5	0
24	Can Local Probes Go Global? A Joint Experimentâ€“Simulation Analysis of Î»_{6â€“85} Folding. Journal of Physical Chemistry Letters, 2016, 7, 1960-1965.	4.6	12
25	Conformational Dynamics of the Human Islet Amyloid Polypeptide in a Membrane Environment: Toward the Aggregation Prone Form. Biochemistry, 2016, 55, 2031-2042.	2.5	27
26	Mapping the Mechanism of Fast Protein Folding with Multiple Probes. Biophysical Journal, 2015, 108, 347a-348a.	0.5	0
27	CDD. , 2015, , .		0
28	Efficient Exploration of Membrane-Associated Phenomena at Atomic Resolution. Journal of Membrane Biology, 2015, 248, 563-582.	2.1	33
29	Mapping fast protein folding with multiple-site fluorescent probes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7966-7971.	7.1	24
30	C3-OH of Amphotericin B Plays an Important Role in Ion Conductance. Journal of the American Chemical Society, 2015, 137, 15102-15104.	13.7	16
31	CHARMM-GUI HMMM Builder for Membrane Simulations with the Highly Mobile Membrane-Mimetic Model. Biophysical Journal, 2015, 109, 2012-2022.	0.5	89
32	Filling Up the Heme Pocket Stabilizes Apomyoglobin and Speeds Up Its Folding. Journal of Physical Chemistry B, 2014, 118, 6511-6518.	2.6	8
33	Partitioning of Amino Acids into a Model Membrane: Capturing the Interface. Journal of Physical Chemistry B, 2014, 118, 1481-1492.	2.6	48
34	Host Defense Peptides: Molecular Details of Attack on Bacterial and Neoplastic Mammalian Model Membranes. Biophysical Journal, 2013, 104, 21a.	0.5	0
35	Glycophorin a Helix Insertion, Positioning, and Dimerization in Model Membranes. Biophysical Journal, 2012, 102, 413a.	0.5	1
36	Accelerating Membrane Insertion of Peripheral Proteins with a Novel Membrane Mimetic Model. Biophysical Journal, 2012, 102, 2130-2139.	0.5	123

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37	Spontaneous Binding of Membrane-Anchoring Proteins Captured with a Highly Mobile Membrane-Mimetic Model. Biophysical Journal, 2011, 100, 639a-640a.	0.5	0
38	Charachterizing Structure and Dynamics of Calcium-Induced Clusters ofÂPhosphatidylserine in Mixed Lipid Bilayers. Biophysical Journal, 2011, 100, 172a.	0.5	1
39	Molecular Determinants of Phospholipid Synergy in Blood Clotting. Journal of Biological Chemistry, 2011, 286, 23247-23253.	3.4	94
40	Protein-Phospholipid interactions in blood clotting. Thrombosis Research, 2010, 125, S23-S25.	1.7	23
41	Photodynamics in Complex Environments: Ab Initio Multiple Spawning Quantum Mechanical/Molecular Mechanical Dynamics. Journal of Physical Chemistry B, 2009, 113, 3280-3291.	2.6	259
42	Cytochrome c2Exit Strategy:Â Dissociation Studies and Evolutionary Implications. Journal of Physical Chemistry B, 2007, 111, 618-634.	2.6	25
43	Variations in the Fast Folding Rates of the Î»-Repressor: A Hybrid Molecular Dynamics Study. Biophysical Journal, 2004, 87, 207-214.	0.5	34
44	Ab initio protein structure prediction. Current Opinion in Structural Biology, 2002, 12, 176-181.	5.7	176