

Kristyna Pluhackova

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

2,694
citations

304602

22
h-index

360920

35
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37
all docs

37
docs citations

37
times ranked

3902
citing authors

#	ARTICLE	IF	CITATIONS
1	Gasdermin-A3 pore formation propagates along variable pathways. <i>Nature Communications</i> , 2022, 13, 2609.	5.8	25
2	A cholesterol analog stabilizes the human β_2 -adrenergic receptor nonlinearly with temperature. <i>Science Signaling</i> , 2022, 15, .	1.6	8
3	The Hidden Intricacies of Aquaporins: Remarkable Details in a Common Structural Scaffold. <i>Small</i> , 2022, 18, .	5.2	8
4	Native-like membrane models of <i>E. coli</i> polar lipid extract shed light on the importance of lipid composition complexity. <i>BMC Biology</i> , 2021, 19, 4.	1.7	33
5	Monitoring the binding and insertion of a single transmembrane protein by an insertase. <i>Nature Communications</i> , 2021, 12, 7082.	5.8	16
6	Lipids and Phosphorylation Conjointly Modulate Complex Formation of β_2 -Adrenergic Receptor and β_2 -arrestin2. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 807913.	1.8	13
7	Lipid Dynamics in Membranes Slowed Down by Transmembrane Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 579388.	1.8	16
8	Structural Model of the mIgM B-Cell Receptor Transmembrane Domain From Self-Association Molecular Dynamics Simulations. <i>Frontiers in Immunology</i> , 2018, 9, 2947.	2.2	17
9	Closely related, yet unique: Distinct homo- and heterodimerization patterns of G protein coupled chemokine receptors and their fine-tuning by cholesterol. <i>PLoS Computational Biology</i> , 2018, 14, e1006062.	1.5	33
10	Dynamic processes in biological membrane mimics revealed by quasielastic neutron scattering. <i>Chemistry and Physics of Lipids</i> , 2017, 206, 28-42.	1.5	16
11	Critical Comparison of Biomembrane Force Fields: Protein-Lipid Interactions at the Membrane Interface. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 2310-2321.	2.3	62
12	The Multifaceted Role of SNARE Proteins in Membrane Fusion. <i>Frontiers in Physiology</i> , 2017, 8, 5.	1.3	226
13	A Critical Comparison of Biomembrane Force Fields: Structure and Dynamics of Model DMPC, POPC, and POPE Bilayers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3888-3903.	1.2	138
14	Exploring the Formation and the Structure of Synaptobrevin Oligomers in a Model Membrane. <i>Biophysical Journal</i> , 2016, 110, 2004-2015.	0.2	13
15	Binding Characteristics of Sphingosine-1-Phosphate to ApoM hints to Assisted Release Mechanism via the ApoM Calyx-Opening. <i>Scientific Reports</i> , 2016, 6, 30655.	1.6	21
16	A Coiled-Coil Peptide Shaping Lipid Bilayers upon Fusion. <i>Biophysical Journal</i> , 2016, 111, 2162-2175.	0.2	36
17	Synaptobrevin transmembrane domain determines the structure and dynamics of the SNARE motif and the linker region. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 855-865.	1.4	31
18	Dynamic Cholesterol-Conditioned Dimerization of the G Protein Coupled Chemokine Receptor Type 4. <i>PLoS Computational Biology</i> , 2016, 12, e1005169.	1.5	75

#	ARTICLE	IF	CITATIONS
19	Biomembranes in atomistic and coarse-grained simulations. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 323103.	0.7	61
20	Spontaneous Adsorption of Coiled-Coil Model Peptides K and E to a Mixed Lipid Bilayer. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4396-4408.	1.2	29
21	High-Throughput Simulations of Dimer and Trimer Assembly of Membrane Proteins. The DAFT Approach. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 2278-2291.	2.3	94
22	Extension of the LOPLS-AA Force Field for Alcohols, Esters, and Monoolein Bilayers and its Validation by Neutron Scattering Experiments. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15287-15299.	1.2	42
23	Synaptobrevin Transmembrane Domain Dimerization Studied by Multiscale Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2015, 109, 760-771.	0.2	22
24	Going Backward: An Efficient Multiscale Approach using Reverse Transformation. <i>Biophysical Journal</i> , 2014, 106, 640a.	0.2	2
25	Going Backward: A Flexible Geometric Approach to Reverse Transformation from Coarse Grained to Atomistic Models. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 676-690.	2.3	566
26	Molecular Dynamics Simulations of Membrane Proteins. <i>Methods in Molecular Biology</i> , 2013, 1033, 85-101.	0.4	26
27	Optimization of the OPLS-AA Force Field for Long Hydrocarbons. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 1459-1470.	2.3	474
28	Guanineâ€“aspartic acid interactions probed with IRâ€“UV resonance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3597.	1.3	14
29	Phenylalanyl-Glycyl-Phenylalanine Tripeptide: A Model System for Aromaticâˆ“Aromatic Side Chain Interactions in Proteins. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2248-2256.	2.3	23
30	Benchmark database on isolated small peptides containing an aromatic side chain: comparison between wave function and density functional theory methods and empirical force field. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2747.	1.3	146
31	On the Importance of Electron Correlation Effects for the Intramolecular Stacking Geometry of a Bis-Thiophene Derivative. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12469-12474.	1.1	23
32	Quantum Chemical Benchmark Energy and Geometry Database for Molecular Clusters and Complex Molecular Systems (www.begdb.com): A Users Manual and Examples. <i>Collection of Czechoslovak Chemical Communications</i> , 2008, 73, 1261-1270.	1.0	144
33	Vicinal Amino Alcohols as Organocatalysts in Asymmetric Cross-Aldol Reaction of Ketones:â€“ Application in the Synthesis of Convolutamidine A. <i>Organic Letters</i> , 2007, 9, 5473-5476.	2.4	178
34	Stabilisation energy of C6H6âˆ“C6X6 (X = F, Cl, Br, I, CN) complexes: complete basis set limit calculations at MP2 and CCSD(T) levels. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 755-760.	1.3	37
35	Theoretical Investigation of the Unexpected Red Shift in the Halothane[ellipsis (horizontal)]Acetone Complex. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
36	On the Nature of the Surprisingly Small (Red) Shift in the Halothaneâˆ“âˆ“âˆ“Acetone Complex. <i>ChemPhysChem</i> , 2007, 8, 1352-1356.	1.0	26