

Herre Jelger Risselada

List of Publications by Year in descending order

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39
papers

7,478
citations

331670

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docs citations

43
times ranked

8433
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic insights into the size-dependent effects of nanoparticles on inhibiting and accelerating amyloid fibril formation. <i>Journal of Colloid and Interface Science</i> , 2022, 622, 804-818.	9.4	17
2	Efficient Quantification of Lipid Packing Defect Sensing by Amphipathic Peptides: Comparing Martini 2 and 3 with CHARMM36. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 4503-4514.	5.3	9
3	Where are those lipid nano rings?. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 789-796.	9.4	3
4	Martini 3: a coarse-grained force field with an eye for atomic detail. <i>Nature Methods</i> , 2021, 18, 342-343.	19.0	7
5	Quantifying Membrane Curvature Sensing of Peripheral Proteins by Simulated Buckling and Umbrella Sampling. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5276-5286.	5.3	10
6	How proteins open fusion pores: insights from molecular simulations. <i>European Biophysics Journal</i> , 2021, 50, 279-293.	2.2	17
7	Growth, Polymorphism, and Spatially Controlled Surface Immobilization of Biotinylated Variants of IAPP ₂₁₋₂₇ Fibrils. <i>Biomacromolecules</i> , 2020, 21, 783-792.	5.4	3
8	Density Field Thermodynamic Integration (DFTI): A “Soft” Approach to Calculate the Free Energy of Surfactant Self-Assemblies. <i>Journal of Physical Chemistry B</i> , 2020, 124, 6775-6785.	2.6	5
9	Liquids relax and unify strain in graphene. <i>Nature Communications</i> , 2020, 11, 898.	12.8	20
10	Fusion Pores Live on the Edge. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1204-1208.	4.6	6
11	Membrane Thinning Induces Sorting of Lipids and the Amphipathic Lipid Packing Sensor (ALPS) Protein Motif. <i>Frontiers in Physiology</i> , 2020, 11, 250.	2.8	20
12	SNAREs, tethers and SM proteins: how to overcome the final barriers to membrane fusion?. <i>Biochemical Journal</i> , 2020, 477, 243-258.	3.7	23
13	Thermodynamically reversible paths of the first fusion intermediate reveal an important role for membrane anchors of fusion proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2571-2576.	7.1	65
14	Cholesterol: The Plasma Membrane’s Constituent that Chooses Sides. <i>Biophysical Journal</i> , 2019, 116, 2235-2236.	0.5	5
15	Impact of nanoparticles on amyloid peptide and protein aggregation: a review with a focus on gold nanoparticles. <i>Nanoscale</i> , 2018, 10, 20894-20913.	5.6	121
16	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 343001.	2.8	212
17	<scp>SNARE</scp>-mediated membrane fusion arrests at pore expansion to regulate the volume of an organelle. <i>EMBO Journal</i> , 2018, 37, .	7.8	39
18	Membrane Fusion Stalks and Lipid Rafts: A Love-Hate Relationship. <i>Biophysical Journal</i> , 2017, 112, 2475-2478.	0.5	22

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19	A tethering complex drives the terminal stage of SNARE-dependent membrane fusion. <i>Nature</i> , 2017, 551, 634-638.	27.8	92
20	Steric hindrance of SNARE transmembrane domain organization impairs the hemifusion-to-fusion transition. <i>EMBO Reports</i> , 2016, 17, 1590-1608.	4.5	20
21	Gold-induced Fibril Growth: The Mechanism of Surface-Facilitated Amyloid Aggregation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11242-11246.	13.8	81
22	Exploiting Lipid Permutation Symmetry to Compute Membrane Remodeling Free Energies. <i>Physical Review Letters</i> , 2016, 117, 188102.	7.8	27
23	Gold lässt Fibrillen wachsen: der Mechanismus der oberflächenunterstützten Amyloid-Aggregation. <i>Angewandte Chemie</i> , 2016, 128, 11408-11412.	2.0	2
24	PspF-binding domain PspA ₁₄₄ and the PspA-F complex: New insights into the coiled-coil-dependent regulation of AAA+ proteins. <i>Molecular Microbiology</i> , 2015, 98, 743-759.	2.5	33
25	TatBC-Independent TatA/Tat Substrate Interactions Contribute to Transport Efficiency. <i>PLoS ONE</i> , 2015, 10, e0119761.	2.5	20
26	Simulations Move Toward a Cure for Viral Diseases. <i>Structure</i> , 2015, 23, 439-440.	3.3	1
27	Expansion of the fusion stalk and its implication for biological membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11043-11048.	7.1	99
28	Free Energy Landscape of Rim-Pore Expansion in Membrane Fusion. <i>Biophysical Journal</i> , 2014, 107, 2287-2295.	0.5	30
29	How SNARE molecules mediate membrane fusion: Recent insights from molecular simulations. <i>Current Opinion in Structural Biology</i> , 2012, 22, 187-196.	5.7	121
30	Line-Tension Controlled Mechanism for Influenza Fusion. <i>PLoS ONE</i> , 2012, 7, e38302.	2.5	63
31	Curvature-Dependent Elastic Properties of Liquid-Ordered Domains Result in Inverted Domain Sorting on Uniaxially Compressed Vesicles. <i>Physical Review Letters</i> , 2011, 106, 148102.	7.8	41
32	Membrane protein sequestering by ionic protein-lipid interactions. <i>Nature</i> , 2011, 479, 552-555.	27.8	515
33	Caught in the Act: Visualization of SNARE-Mediated Fusion Events in Molecular Detail. <i>ChemBioChem</i> , 2011, 12, 1049-1055.	2.6	134
34	The freezing process of small lipid vesicles at molecular resolution. <i>Soft Matter</i> , 2009, 5, 4531.	2.7	30
35	3D Pressure Field in Lipid Membranes and Membrane-Protein Complexes. <i>Physical Review Letters</i> , 2009, 102, 078101.	7.8	180
36	Curvature effects on lipid packing and dynamics in liposomes revealed by coarse grained molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2056.	2.8	172

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37	Application of Mean Field Boundary Potentials in Simulations of Lipid Vesicles. Journal of Physical Chemistry B, 2008, 112, 7438-7447.	2.6	63
38	The molecular face of lipid rafts in model membranes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17367-17372.	7.1	493
39	The MARTINI Force Field: A Coarse Grained Model for Biomolecular Simulations. Journal of Physical Chemistry B, 2007, 111, 7812-7824.	2.6	4,650