Herre Jelger Risselada

List of Publications by Year
in descending order

39 papers	7,478 citations	331538 21 h-index	302012 39 g-index
43 all docs	43 docs citations	43 times ranked	8433 citing authors

#	Article	IF	Citations
1	The MARTINI Force Field:â€‰ Coarse Grained Model for Biomolecular Simulations. Journal of Physical Chemistry B, 2007, 111, 7812-7824.	1.2	4,650
2	Membrane protein sequestering by ionic proteinâ€“lipid interactions. Nature, 2011, 479, 552-555.	13.7	515
3	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.	3.3	493
4	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	1.3	212
5	3D Pressure Field in Lipid Membranes and Membrane-Protein Complexes. Physical Review Letters, 2009, 102, 078101.	2.9	180
6	Curvature effects on lipid packing and dynamics in liposomes revealed by coarse grained molecular dynamics simulations. Physical Chemistry Chemical Physics, 2009, 11, 2056.	1.3	172
7	Caught in the Act: Visualization of SNAREâ€Mediated Fusion Events in Molecular Detail. ChemBioChem, 2011, 12, 1049-1055.	1.3	134
8	How SNARE molecules mediate membrane fusion: Recent insights from molecular simulations. Current Opinion in Structural Biology, 2012, 22, 187-196.	2.6	121
9	Impact of nanoparticles on amyloid peptide and protein aggregation: a review with a focus on gold nanoparticles. Nanoscale, 2018, 10, 20894-20913.	2.8	121
10	Expansion of the fusion stalk and its implication for biological membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11043-11048.	3.3	99
11	A tethering complex drives the terminal stage of SNARE-dependent membrane fusion. Nature, 2017, 551, 634-638.	13.7	92
12	Goldâ€Induced Fibril Growth: The Mechanism of Surfaceâ€Facilitated Amyloid Aggregation. Angewandte Chemie - International Edition, 2016, 55, 11242-11246.	7.2	81
13	Thermodynamically reversible paths of the first fusion intermediate reveal an important role for membrane anchors of fusion proteins. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2571-2576.	3.3	65
14	Application of Mean Field Boundary Potentials in Simulations of Lipid Vesicles. Journal of Physical Chemistry B, 2008, 112, 7438-7447.	1.2	63
15	Line-Tension Controlled Mechanism for Influenza Fusion. PLoS ONE, 2012, 7, e38302.	1.1	63
16	Curvature-Dependent Elastic Properties of Liquid-Ordered Domains Result in Inverted Domain Sorting on Uniaxially Compressed Vesicles. Physical Review Letters, 2011, 106, 148102.	2.9	41
17	<scp>SNARE</scp> â€mediated membrane fusion arrests at pore expansion to regulate the volume ofÂanÂorganelle. EMBO Journal, 2018, 37, .	3.5	39
18	<scp>PspF</scp>â€binding domain <scp>PspA</scp>_{1â€“144} and the <scp>PspA</scp>Â·<scp>F</scp> complex: New insights into the coiledâ€“coilâ€dependent regulation of <scp>AAA</scp>+ proteins. Molecular Microbiology, 2015, 98, 743-759.	1.2	33

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19	The freezing process of small lipid vesicles at molecular resolution. Soft Matter, 2009, 5, 4531.	1.2	30
20	Free Energy Landscape of Rim-Pore Expansion in Membrane Fusion. Biophysical Journal, 2014, 107, 2287-2295.	0.2	30
21	Exploiting Lipid Permutation Symmetry to Compute Membrane Remodeling Free Energies. Physical Review Letters, 2016, 117, 188102.	2.9	27
22	SNAREs, tethers and SM proteins: how to overcome the final barriers to membrane fusion?. Biochemical Journal, 2020, 477, 243-258.	1.7	23
23	Membrane Fusion Stalks and Lipid Rafts: A Love-Hate Relationship. Biophysical Journal, 2017, 112, 2475-2478.	0.2	22
24	TatBC-Independent TatA/Tat Substrate Interactions Contribute to Transport Efficiency. PLoS ONE, 2015, 10, e0119761.	1.1	20
25	Steric hindrance of SNARE transmembrane domainÂorganization impairs the hemifusionâ€toâ€fusion transition. EMBO Reports, 2016, 17, 1590-1608.	2.0	20
26	Liquids relax and unify strain in graphene. Nature Communications, 2020, 11, 898.	5.8	20
27	Membrane Thinning Induces Sorting of Lipids and the Amphipathic Lipid Packing Sensor (ALPS) Protein Motif. Frontiers in Physiology, 2020, 11, 250.	1.3	20
28	How proteins open fusion pores: insights from molecular simulations. European Biophysics Journal, 2021, 50, 279-293.	1.2	17
29	Mechanistic insights into the size-dependent effects of nanoparticles on inhibiting and accelerating amyloid fibril formation. Journal of Colloid and Interface Science, 2022, 622, 804-818.	5.0	17
30	Quantifying Membrane Curvature Sensing of Peripheral Proteins by Simulated Buckling and Umbrella Sampling. Journal of Chemical Theory and Computation, 2021, 17, 5276-5286.	2.3	10
31	Efficient Quantification of Lipid Packing Defect Sensing by Amphipathic Peptides: Comparing Martini 2 and 3 with CHARMM36. Journal of Chemical Theory and Computation, 2022, 18, 4503-4514.	2.3	9
32	Martini 3: a coarse-grained force field with an eye for atomic detail. Nature Methods, 2021, 18, 342-343.	9.0	7
33	Fusion Pores Live on the Edge. Journal of Physical Chemistry Letters, 2020, 11, 1204-1208.	2.1	6
34	Cholesterol: The Plasma Membraneâ€™s Constituent that Chooses Sides. Biophysical Journal, 2019, 116, 2235-2236.	0.2	5
35	Density Field Thermodynamic Integration (DFTI): A â€œSoftâ€•Approach to Calculate the Free Energy of Surfactant Self-Assemblies. Journal of Physical Chemistry B, 2020, 124, 6775-6785.	1.2	5
36	Growth, Polymorphism, and Spatially Controlled Surface Immobilization of Biotinylated Variants of IAPP_{21â€“27} Fibrils. Biomacromolecules, 2020, 21, 783-792.	2.6	3

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37	Where are those lipid nano rings?. Journal of Colloid and Interface Science, 2021, 587, 789-796.	5.0	3
38	Gold lÃsst Fibrillen wachsen: der Mechanismus der oberflÃchenunterstÃ¼tzten Amyloidâ€Aggregation. Angewandte Chemie, 2016, 128, 11408-11412.	1.6	2
39	Simulations Move Toward a Cure for Viral Diseases. Structure, 2015, 23, 439-440.	1.6	1