Rebecca Notman

List of Publications by Year
in descending order

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Version: 2024-02-01

28 papers	1,559 citations	361413 20 h-index	477307 29 g-index
45 all docs	45 docs citations	45 times ranked	2338 citing authors

#	Article	IF	Citations
1	Molecular Basis for Dimethylsulfoxide (DMSO) Action on Lipid Membranes. Journal of the American Chemical Society, 2006, 128, 13982-13983.	13.7	346
2	Antifreeze (Glyco)protein Mimetic Behavior of Poly(vinyl alcohol): Detailed Structure Ice Recrystallization Inhibition Activity Study. Biomacromolecules, 2013, 14, 1578-1586.	5.4	187
3	The Permeability Enhancing Mechanism of DMSO in Ceramide Bilayers Simulated by Molecular Dynamics. Biophysical Journal, 2007, 93, 2056-2068.	0.5	152
4	Breaching the skin barrier â€" Insights from molecular simulation of model membranes. Advanced Drug Delivery Reviews, 2013, 65, 237-250.	13.7	96
5	Molecular Dynamics Studies of the Interactions of Water and Amino Acid Analogues with Quartz Surfaces. Langmuir, 2009, 25, 1638-1644.	3.5	80
6	Nanofiber-Based Delivery of Therapeutic Peptides to the Brain. ACS Nano, 2013, 7, 1016-1026.	14.6	77
7	Probing the Molecular Mechanisms of Quartz-Binding Peptides. Langmuir, 2010, 26, 11003-11009.	3.5	72
8	Ice recrystallisation inhibition by polyols: comparison of molecular and macromolecular inhibitors and role of hydrophobic units. Biomaterials Science, 2013, 1, 478.	5.4	56
9	Synthesis and structure of oxetane containing tripeptide motifs. Chemical Communications, 2014, 50, 8797.	4.1	47
10	Simulations of Skin Barrier Function: Free Energies of Hydrophobic and Hydrophilic Transmembrane Pores in Ceramide Bilayers. Biophysical Journal, 2008, 95, 4763-4771.	0.5	42
11	Interaction of Oleic Acid with Dipalmitoylphosphatidylcholine (DPPC) Bilayers Simulated by Molecular Dynamics. Journal of Physical Chemistry B, 2007, 111, 12748-12755.	2.6	37
12	Type IX Collagen Interacts with Fibronectin Providing an Important Molecular Bridge in Articular Cartilage. Journal of Biological Chemistry, 2011, 286, 34986-34997.	3.4	35
13	Probing the Biomimetic Ice Nucleation Inhibition Activity of Poly(vinyl alcohol) and Comparison to Synthetic and Biological Polymers. Biomacromolecules, 2015, 16, 2820-2826.	5.4	35
14	Ethanol induces the formation of water-permeable defects in model bilayers of skin lipids. Chemical Communications, 2015, 51, 5406-5409.	4.1	33
15	Permeation pathways through lateral domains in model membranes of skin lipids. Physical Chemistry Chemical Physics, 2018, 20, 2162-2174.	2.8	32
16	Macrocyclisation of small peptides enabled by oxetane incorporation. Chemical Science, 2019, 10, 2465-2472.	7.4	31
17	Complete Structure of an Epithelial Keratin Dimer: Implications for Intermediate Filament Assembly. PLoS ONE, 2015, 10, e0132706.	2.5	30
18	Solution Study of Engineered Quartz Binding Peptides Using Replica Exchange Molecular Dynamics. Biomacromolecules, 2010, 11, 3266-3274.	5.4	28

#	Article	IF	Citations
19	Influence of Block Copolymerization on the Antifreeze Protein Mimetic Ice Recrystallization Inhibition Activity of Poly(vinyl alcohol). Biomacromolecules, 2016, 17, 3033-3039.	5.4	26
20	Permeation of polystyrene nanoparticles across model lipid bilayer membranes. Soft Matter, 2013, 9, 10265.	2.7	25
21	Effects of the Oncogenic V₆₆₄E Mutation on Membrane Insertion, Structure, and Sequence-Dependent Interactions of the Neu Transmembrane Domain in Micelles and Model Membranes: An Integrated Biophysical and Simulation Study. Biochemistry, 2012, 51, 2558-2568.	2.5	18
22	Synthesis of star-branched poly(vinyl alcohol) and ice recrystallization inhibition activity. European Polymer Journal, 2017, 88, 320-327.	5.4	15
23	Comparison of umbrella sampling and steered molecular dynamics methods for computing free energy profiles of aromatic substrates through phospholipid bilayers. Journal of Chemical Physics, 2020, 153, 034115.	3.0	15
24	Probing diameter-selective solubilisation of carbon nanotubes by reversible cyclic peptides using molecular dynamics simulations. Nanoscale, 2010, 2, 98-106.	5.6	13
25	De novo design of transmembrane helixâ€“helix interactions and measurement of stability in a biological membrane. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1248-1257.	2.6	11
26	The aggregation of striped nanoparticles in mixed phospholipid bilayers. Nanoscale, 2020, 12, 4868-4881.	5.6	8
27	Impact of oxetane incorporation on the structure and stability of alpha-helical peptides. Physical Chemistry Chemical Physics, 2020, 22, 25075-25083.	2.8	2
28	T-shaped Peptide Amphiphiles Self Assemble into Nanofiber Networks. Pharmaceutical Nanotechnology, 2018, 5, 215-219.	1.5	2