Horia I Petrache

List of Publications by Year
in descending order

24 papers	1,585 citations	686830 13 h-index	676716 22 g-index
25 all docs	25 docs citations	25 times ranked	3741 citing authors

#	Article	IF	Citations
1	Correction: Flexible lipid nanomaterials studied by NMR spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 19083-19083.	1.3	0
2	Biofabrication of spheroids fusion-based tumor models: computational simulation of glucose effects. Biofabrication, 2021, 13, 035010.	3.7	9
3	Vitamin E Promotes the Inverse Hexagonal Phase via a Novel Mechanism: Implications for Antioxidant Role. Langmuir, 2020, 36, 4908-4916.	1.6	6
4	Flexible lipid nanomaterials studied by NMR spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 18422-18457.	1.3	19
5	Generalized Circulant Matrices. Proceedings (mdpi), 2018, 2, .	0.2	0
6	Reorganization of Ternary Lipid Mixtures of Nonphosphorylated Phosphatidylinositol Interacting with Angiomotin. Journal of Physical Chemistry B, 2018, 122, 8404-8415.	1.2	4
7	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. Angewandte Chemie - International Edition, 2017, 56, 3506-3509.	7.2	17
8	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. Angewandte Chemie, 2017, 129, 3560-3563.	1.6	3
9	Direct affinity of dopamine to lipid membranes investigated by Nuclear Magnetic Resonance spectroscopy. Neuroscience Letters, 2016, 618, 104-109.	1.0	20
10	Elastic deformation and area per lipid of membranes: Atomistic view from solid-state deuterium NMR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 246-259.	1.4	51
11	Inferring Models of Bacterial Dynamics toward Point Sources. PLoS ONE, 2015, 10, e0140428.	1.1	4
12	Effects of Lipid Interactions on Model Vesicle Engulfment by Alveolar Macrophages. Biophysical Journal, 2014, 106, 598-609.	0.2	13
13	Elastic properties of polyunsaturated phosphatidylethanolamines influence rhodopsin function. Faraday Discussions, 2013, 161, 383-395.	1.6	57
14	Membrane Area Deformation under Osmotic Stress: Deuterium NMR Approach. Biophysical Journal, 2012, 102, 505a-506a.	0.2	2
15	Solid-State 2H NMR Shows Equivalence of Dehydration and Osmotic Pressures in Lipid Membrane Deformation. Biophysical Journal, 2011, 100, 98-107.	0.2	40
16	Environmental Effects on Glycophorin A Folding and Structure Examined through Molecular Simulations. Journal of Chemical Theory and Computation, 2005, 1, 375-388.	2.3	3
17	Molecular dynamics simulations of ionic concentration gradients across model bilayers. Journal of Chemical Physics, 2003, 118, 1957-1969.	1.2	9
18	Structural Properties of Docosahexaenoyl Phospholipid Bilayers Investigated by Solid-State 2H NMR Spectroscopy. Journal of the American Chemical Society, 2001, 123, 12611-12622.	6.6	54

#	Article	IF	Citations
19	Area per Lipid and Acyl Length Distributions in Fluid Phosphatidylcholines Determined by 2H NMR Spectroscopy. Biophysical Journal, 2000, 79, 3172-3192.	0.2	598
20	Analysis of Simulated NMR Order Parameters for Lipid Bilayer Structure Determination. Biophysical Journal, 1999, 76, 2479-2487.	0.2	102
21	Fluid phase structure of EPC and DMPC bilayers. Chemistry and Physics of Lipids, 1998, 95, 83-94.	1.5	245
22	Effect of Substrate Roughness on D Spacing Supports Theoretical Resolution of Vapor Pressure Paradox. Biophysical Journal, 1998, 74, 1421-1427.	0.2	26
23	Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. Physical Review E, 1998, 58, 7769-7776.	0.8	56
24	Interbilayer interactions from high-resolution x-ray scattering. Physical Review E, 1998, 57, 7014-7024.	0.8	247