

Horia I Petrache

List of Publications by Year in descending order

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24
papers

1,585
citations

687363

13
h-index

677142

22
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25
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docs citations

25
times ranked

3741
citing authors

#	ARTICLE	IF	CITATIONS
1	Area per Lipid and Acyl Length Distributions in Fluid Phosphatidylcholines Determined by 2H NMR Spectroscopy. <i>Biophysical Journal</i> , 2000, 79, 3172-3192.	0.5	598
2	Interbilayer interactions from high-resolution x-ray scattering. <i>Physical Review E</i> , 1998, 57, 7014-7024.	2.1	247
3	Fluid phase structure of EPC and DMPC bilayers. <i>Chemistry and Physics of Lipids</i> , 1998, 95, 83-94.	3.2	245
4	Analysis of Simulated NMR Order Parameters for Lipid Bilayer Structure Determination. <i>Biophysical Journal</i> , 1999, 76, 2479-2487.	0.5	102
5	Elastic properties of polyunsaturated phosphatidylethanolamines influence rhodopsin function. <i>Faraday Discussions</i> , 2013, 161, 383-395.	3.2	57
6	Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. <i>Physical Review E</i> , 1998, 58, 7769-7776.	2.1	56
7	Structural Properties of Docosahexaenoyl Phospholipid Bilayers Investigated by Solid-State 2H NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 12611-12622.	13.7	54
8	Elastic deformation and area per lipid of membranes: Atomistic view from solid-state deuterium NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 246-259.	2.6	51
9	Solid-State 2H NMR Shows Equivalence of Dehydration and Osmotic Pressures in Lipid Membrane Deformation. <i>Biophysical Journal</i> , 2011, 100, 98-107.	0.5	40
10	Effect of Substrate Roughness on D Spacing Supports Theoretical Resolution of Vapor Pressure Paradox. <i>Biophysical Journal</i> , 1998, 74, 1421-1427.	0.5	26
11	Direct affinity of dopamine to lipid membranes investigated by Nuclear Magnetic Resonance spectroscopy. <i>Neuroscience Letters</i> , 2016, 618, 104-109.	2.1	20
12	Flexible lipid nanomaterials studied by NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18422-18457.	2.8	19
13	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3506-3509.	13.8	17
14	Effects of Lipid Interactions on Model Vesicle Engulfment by Alveolar Macrophages. <i>Biophysical Journal</i> , 2014, 106, 598-609.	0.5	13
15	Molecular dynamics simulations of ionic concentration gradients across model bilayers. <i>Journal of Chemical Physics</i> , 2003, 118, 1957-1969.	3.0	9
16	Biofabrication of spheroids fusion-based tumor models: computational simulation of glucose effects. <i>Biofabrication</i> , 2021, 13, 035010.	7.1	9
17	Vitamin E Promotes the Inverse Hexagonal Phase via a Novel Mechanism: Implications for Antioxidant Role. <i>Langmuir</i> , 2020, 36, 4908-4916.	3.5	6
18	Reorganization of Ternary Lipid Mixtures of Nonphosphorylated Phosphatidylinositol Interacting with Angiomotin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 8404-8415.	2.6	4

#	ARTICLE	IF	CITATIONS
19	Inferring Models of Bacterial Dynamics toward Point Sources. PLoS ONE, 2015, 10, e0140428.	2.5	4
20	Environmental Effects on Glycophorin A Folding and Structure Examined through Molecular Simulations. Journal of Chemical Theory and Computation, 2005, 1, 375-388.	5.3	3
21	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. Angewandte Chemie, 2017, 129, 3560-3563.	2.0	3
22	Membrane Area Deformation under Osmotic Stress: Deuterium NMR Approach. Biophysical Journal, 2012, 102, 505a-506a.	0.5	2
23	Generalized Circulant Matrices. Proceedings (mdpi), 2018, 2, .	0.2	0
24	Correction: Flexible lipid nanomaterials studied by NMR spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 19083-19083.	2.8	0