

# 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  
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.	2.8	0
2	Biofabrication of spheroids fusion-based tumor models: computational simulation of glucose effects. Biofabrication, 2021, 13, 035010.	7.1	9
3	Vitamin E Promotes the Inverse Hexagonal Phase via a Novel Mechanism: Implications for Antioxidant Role. Langmuir, 2020, 36, 4908-4916.	3.5	6
4	Flexible lipid nanomaterials studied by NMR spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 18422-18457.	2.8	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.	2.6	4
7	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. Angewandte Chemie - International Edition, 2017, 56, 3506-3509.	13.8	17
8	Cation-Selective Channel Regulated by Anions According to Their Hofmeister Ranking. Angewandte Chemie, 2017, 129, 3560-3563.	2.0	3
9	Direct affinity of dopamine to lipid membranes investigated by Nuclear Magnetic Resonance spectroscopy. Neuroscience Letters, 2016, 618, 104-109.	2.1	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.	2.6	51
11	Inferring Models of Bacterial Dynamics toward Point Sources. PLoS ONE, 2015, 10, e0140428.	2.5	4
12	Effects of Lipid Interactions on Model Vesicle Engulfment by Alveolar Macrophages. Biophysical Journal, 2014, 106, 598-609.	0.5	13
13	Elastic properties of polyunsaturated phosphatidylethanolamines influence rhodopsin function. Faraday Discussions, 2013, 161, 383-395.	3.2	57
14	Membrane Area Deformation under Osmotic Stress: Deuterium NMR Approach. Biophysical Journal, 2012, 102, 505a-506a.	0.5	2
15	Solid-State 2H NMR Shows Equivalence of Dehydration and Osmotic Pressures in Lipid Membrane Deformation. Biophysical Journal, 2011, 100, 98-107.	0.5	40
16	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
17	Molecular dynamics simulations of ionic concentration gradients across model bilayers. Journal of Chemical Physics, 2003, 118, 1957-1969.	3.0	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.	13.7	54

#	ARTICLE	IF	CITATIONS
19	Area per Lipid and Acyl Length Distributions in Fluid Phosphatidylcholines Determined by <sup>2</sup> H NMR Spectroscopy. <i>Biophysical Journal</i> , 2000, 79, 3172-3192.	0.5	598
20	Analysis of Simulated NMR Order Parameters for Lipid Bilayer Structure Determination. <i>Biophysical Journal</i> , 1999, 76, 2479-2487.	0.5	102
21	Fluid phase structure of EPC and DMPC bilayers. <i>Chemistry and Physics of Lipids</i> , 1998, 95, 83-94.	3.2	245
22	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
23	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
24	Interbilayer interactions from high-resolution x-ray scattering. <i>Physical Review E</i> , 1998, 57, 7014-7024.	2.1	247