

Milka Doktorova

List of Publications by Year in descending order

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48
papers

1,383
citations

471371

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31
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all docs

54
docs citations

54
times ranked

1397
citing authors

#	ARTICLE	IF	CITATIONS
1	Cholesterol stiffening of lipid membranes and drug interactions: Insights from neutron spin echo and deuterium NMR spectroscopy. , 2022, , 771-796.		1
2	Probing the Link between Pancreatistatin and Mitochondrial Apoptosis through Changes in the Membrane Dynamics on the Nanoscale. Molecular Pharmaceutics, 2022, 19, 1839-1852.	2.3	4
3	Challenging the Dogma - Cell Plasma Membranes are Asymmetric not only in Phospholipid Composition but also Abundance. Biophysical Journal, 2021, 120, 147a.	0.2	3
4	Local Stiffening Effects of Cholesterol in Saturated and Unsaturated Phosphatidylcholine Membranes. Biophysical Journal, 2021, 120, 44a.	0.2	0
5	Membrane Deformation Modulated by Hydration and Cholesterol Unveiled by Solid-State 2H NMR Spectroscopy. Biophysical Journal, 2021, 120, 41a.	0.2	1
6	Using Molecular Dynamics to Gain Atomic-Level Insight into Bilayer Properties Measured with NMR and Neutron Spin-Echo Spectroscopy. Biophysical Journal, 2021, 120, 224a-225a.	0.2	0
7	Ca ²⁺ -dependent mechanism of membrane insertion and destabilization by the SARS-CoV-2 fusion peptide. Biophysical Journal, 2021, 120, 1105-1119.	0.2	53
8	Reply to Nagle et al.: The universal stiffening effects of cholesterol on lipid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
9	Model Membrane Systems Used to Study Plasma Membrane Lipid Asymmetry. Symmetry, 2021, 13, 1356.	1.1	23
10	Structure and Interdigitation of Chain-Asymmetric Phosphatidylcholines and Milk Sphingomyelin in the Fluid Phase. Symmetry, 2021, 13, 1441.	1.1	9
11	Vesicle Viewer: Online visualization and analysis of Åsmall-angle scattering from lipid vesicles. Biophysical Journal, 2021, 120, 4639-4648.	0.2	6
12	Membrane lipids are both the substrates and a mechanistically responsive environment of TMEM16 scramblase proteins. Journal of Computational Chemistry, 2020, 41, 538-551.	1.5	15
13	On the Long and Winding Road to a Perfect Membrane Model. Biophysical Journal, 2020, 118, 273-275.	0.2	4
14	The Relationship between the Compressibility Moduli of the Bilayer and its Leaflets - Not Simple but Important. Biophysical Journal, 2020, 118, 85a.	0.2	0
15	Structural and functional consequences of reversible lipid asymmetry in living membranes. Nature Chemical Biology, 2020, 16, 1321-1330.	3.9	121
16	Stiffening of Phosphocholine Membranes by Cholesterol. Biophysical Journal, 2020, 118, 86a.	0.2	1
17	Direct Imaging of Nanoscale Lipid Organization in Probe-Free Biomimetic Membranes. Biophysical Journal, 2020, 118, 386a.	0.2	0
18	Direct label-free imaging of nanodomains in biomimetic and biological membranes by cryogenic electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19943-19952.	3.3	81

#	ARTICLE	IF	CITATIONS
19	How cholesterol stiffens unsaturated lipid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21896-21905.	3.3	212
20	Molecular Structure of Sphingomyelin in Fluid Phase Bilayers Determined by the Joint Analysis of Small-Angle Neutron and X-ray Scattering Data. Journal of Physical Chemistry B, 2020, 124, 5186-5200.	1.2	24
21	Coupling of Leaflet Structure in Asymmetric Lipid Vesicles. Biophysical Journal, 2020, 118, 90a.	0.2	0
22	Regulation of lipid saturation without sensing membrane fluidity. Nature Communications, 2020, 11, 756.	5.8	105
23	Phospholipid Translocation as Driver of Cholesterol (Re)Distribution. Biophysical Journal, 2020, 118, 185a.	0.2	0
24	Simulations of an Asymmetric Mammalian Lipidome. Biophysical Journal, 2020, 118, 389a.	0.2	0
25	Peptide-Induced Lipid Flip-Flop in Asymmetric Liposomes Measured by Small Angle Neutron Scattering. Langmuir, 2019, 35, 11735-11744.	1.6	41
26	A New Computational Method for Membrane Compressibility: Bilayer Mechanical Thickness Revisited. Biophysical Journal, 2019, 116, 487-502.	0.2	53
27	Cholesterol Affects the Bending Rigidity of DOPC Membranes. Biophysical Journal, 2019, 116, 328a.	0.2	2
28	Gramicidin Increases Lipid Flip-Flop in Symmetric and Asymmetric Lipid Vesicles. Biophysical Journal, 2019, 116, 860-873.	0.2	44
29	Interleaflet Coupling in Asymmetric Membranes: Protocols and Revelations. Biophysical Journal, 2018, 114, 604a.	0.2	2
30	Investigating the Transbilayer Distribution of Cholesterol in Asymmetric Unilamellar Vesicles using Small-Angle Scattering. Biophysical Journal, 2018, 114, 599a-600a.	0.2	0
31	Accurate In Silico Modeling of Asymmetric Bilayers Based on Biophysical Principles. Biophysical Journal, 2018, 115, 1638-1643.	0.2	41
32	Preparation of asymmetric phospholipid vesicles for use as cell membrane models. Nature Protocols, 2018, 13, 2086-2101.	5.5	128
33	Determination of bending rigidity and tilt modulus of lipid membranes from real-space fluctuation analysis of molecular dynamics simulations. Physical Chemistry Chemical Physics, 2017, 19, 16806-16818.	1.3	98
34	The Molecular Structure of Sphingomyelin in Fluid Phase Bilayers Determined by the Joint Analysis of Neutron and X-Ray Scattering Data. Biophysical Journal, 2017, 112, 223a.	0.2	0
35	Calculating Membrane Area Compressibility from MD Simulations: a Novel Computational Framework. Biophysical Journal, 2017, 112, 467a.	0.2	0
36	Utilizing Asymmetric GUVs to Inspect Plasma Membrane Phase Behavior and Binding of Polybasic Proteins. Biophysical Journal, 2017, 112, 84a.	0.2	0

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37	Cholesterol Promotes Protein Binding by Affecting Membrane Electrostatics and Solvation Properties. <i>Biophysical Journal</i> , 2017, 113, 2004-2015.	0.2	38
38	The Interaction of Proteins with Asymmetric Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 110, 419a.	0.2	0
39	Cholesterol Promotes the Peripheral Binding of Retroviral Proteins to Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 110, 356a.	0.2	0
40	A Demonstration of Lipid Flip-Flip in Free-Floating Liposomes. <i>Biophysical Journal</i> , 2016, 110, 17a.	0.2	0
41	Structural Characterization on Asymmetric Lipid Vesicles at Subnanometer Resolution. <i>Biophysical Journal</i> , 2016, 110, 36a.	0.2	0
42	Subnanometer Structure of an Asymmetric Model Membrane: Interleaflet Coupling Influences Domain Properties. <i>Langmuir</i> , 2016, 32, 5195-5200.	1.6	105
43	Computational Modeling of the N-Terminus of the Human Dopamine Transporter (hDAT). <i>Biophysical Journal</i> , 2015, 108, 252a.	0.2	2
44	Computational modeling of the N-terminus of the human dopamine transporter and its interaction with PIP ₂ -containing membranes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 952-969.	1.5	47
45	Computational prediction of hinge axes in proteins. <i>BMC Bioinformatics</i> , 2014, 15, S2.	1.2	2
46	Hybrid and Nonhybrid Lipids Exert Common Effects on Membrane Raft Size and Morphology. <i>Biophysical Journal</i> , 2014, 106, 501a.	0.2	0
47	Hybrid and Nonhybrid Lipids Exert Common Effects on Membrane Raft Size and Morphology. <i>Journal of the American Chemical Society</i> , 2013, 135, 14932-14935.	6.6	73
48	Computational prediction of hinge axes in proteins. , 2013, , .		0