

Oleg Batishchev

List of Publications by Year in descending order

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72
papers

939
citations

516710

16
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501196

28
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82
all docs

82
docs citations

82
times ranked

972
citing authors

#	ARTICLE	IF	CITATIONS
1	Pore formation in lipid membrane I: Continuous reversible trajectory from intact bilayer through hydrophobic defect to transversal pore. <i>Scientific Reports</i> , 2017, 7, 12152.	3.3	102
2	Single HA2 Mutation Increases the Infectivity and Immunogenicity of a Live Attenuated H5N1 Intranasal Influenza Vaccine Candidate Lacking NS1. <i>PLoS ONE</i> , 2011, 6, e18577.	2.5	75
3	Pore formation in lipid membrane II: Energy landscape under external stress. <i>Scientific Reports</i> , 2017, 7, 12509.	3.3	73
4	Structural Analysis of Influenza A Virus Matrix Protein M1 and Its Self-Assemblies at Low pH. <i>PLoS ONE</i> , 2013, 8, e82431.	2.5	60
5	Origin of proton affinity to membrane/water interfaces. <i>Scientific Reports</i> , 2017, 7, 4553.	3.3	49
6	Heat transport and electron distribution function in laser produced plasmas with hot spots. <i>Physics of Plasmas</i> , 2002, 9, 2302-2310.	1.9	40
7	Line Activity of Ganglioside GM1 Regulates the Raft Size Distribution in a Cholesterol-Dependent Manner. <i>Langmuir</i> , 2017, 33, 3517-3524.	3.5	37
8	pH-Dependent Formation and Disintegration of the Influenza A Virus Protein Scaffold To Provide Tension for Membrane Fusion. <i>Journal of Virology</i> , 2016, 90, 575-585.	3.4	36
9	Matrix proteins of enveloped viruses: a case study of Influenza A virus M1 protein. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019, 37, 671-690.	3.5	30
10	Alkylated glass partition allows formation of solvent-free lipid bilayer by Montalâ€“Mueller technique. <i>Bioelectrochemistry</i> , 2008, 74, 22-25.	4.6	28
11	Continuum Models of Membrane Fusion: Evolution of the Theory. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3875.	4.1	27
12	Elastic deformations mediate interaction of the raft boundary with membrane inclusions leading to their effective lateral sorting. <i>Scientific Reports</i> , 2020, 10, 4087.	3.3	27
13	Membrane-mediated interaction of amphipathic peptides can be described by a one-dimensional approach. <i>Physical Review E</i> , 2019, 99, 022401.	2.1	26
14	Influenza virus Matrix Protein M1 preserves its conformation with pH, changing multimerization state at the priming stage due to electrostatics. <i>Scientific Reports</i> , 2017, 7, 16793.	3.3	25
15	Lateral Membrane Heterogeneity Regulates Viral-Induced Membrane Fusion during HIV Entry. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1483.	4.1	22
16	Lateral stress profile and fluorescent lipid probes. FRET pair of probes that introduces minimal distortions into lipid packing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 2337-2347.	2.6	20
17	Residence time of singlet oxygen in membranes. <i>Scientific Reports</i> , 2018, 8, 14000.	3.3	17
18	Phosphatidylcholine Membrane Fusion Is pH-Dependent. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1358.	4.1	17

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19	Spatial organization of Dps and DNA‐Dps complexes. <i>Journal of Molecular Biology</i> , 2021, 433, 166930.	4.2	17
20	Switching between Successful and Dead-End Intermediates in Membrane Fusion. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2598.	4.1	15
21	Monolayerwise application of linear elasticity theory well describes strongly deformed lipid membranes and the effect of solvent. <i>Soft Matter</i> , 2020, 16, 1179-1189.	2.7	14
22	Solution Structure, Self-Assembly, and Membrane Interactions of the Matrix Protein from Newcastle Disease Virus at Neutral and Acidic pH. <i>Journal of Virology</i> , 2019, 93, .	3.4	13
23	Interaction of Polylysines with the Surface of Lipid Membranes. <i>Behavior Research Methods</i> , 2013, 17, 139-166.	4.0	11
24	The dimeric ectodomain of the alkali-sensing insulin receptor‐related receptor (ectoIRR) has a droplike shape. <i>Journal of Biological Chemistry</i> , 2019, 294, 17790-17798.	3.4	10
25	Effects of Sterols on the Interaction of SDS, Benzalkonium Chloride, and A Novel Compound, Kor105, with Membranes. <i>Biomolecules</i> , 2019, 9, 627.	4.0	10
26	Model of membrane fusion: Continuous transition to fusion pore with regard of hydrophobic and hydration interactions. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2014, 8, 153-161.	0.6	9
27	The Effect of Transmembrane Protein Shape on Surrounding Lipid Domain Formation by Wetting. <i>Biomolecules</i> , 2019, 9, 729.	4.0	9
28	Elasticity and phase behaviour of biomimetic membrane systems containing tetraether archaeal lipids. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124974.	4.7	9
29	The Cytoplasmic Tail of Influenza A Virus Hemagglutinin and Membrane Lipid Composition Change the Mode of M1 Protein Association with the Lipid Bilayer. <i>Membranes</i> , 2021, 11, 772.	3.0	8
30	Interaction of amphipathic peptides mediated by elastic membrane deformations. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017, 11, 206-216.	0.6	7
31	Lipid Membrane Adsorption Determines Photodynamic Efficiency of \hat{I}^2 -Imidazolyl-Substituted Porphyrins. <i>Biomolecules</i> , 2019, 9, 853.	4.0	7
32	BILMIX: a new approach to restore the size polydispersity and electron density profiles of lipid bilayers from liposomes using small-angle X-ray scattering data. <i>Journal of Applied Crystallography</i> , 2020, 53, 236-243.	4.5	7
33	Activity-dependent conformational transitions of the insulin receptor‐related receptor. <i>Journal of Biological Chemistry</i> , 2021, 296, 100534.	3.4	7
34	Peptide-induced membrane elastic deformations decelerate gramicidin dimer-monomer equilibration. <i>Biophysical Journal</i> , 2021, 120, 5309-5321.	0.5	7
35	Membrane-Mediated Lateral Interactions Regulate the Lifetime of Gramicidin Channels. <i>Membranes</i> , 2020, 10, 368.	3.0	6
36	Amphipathic CRAC-Containing Peptides Derived from the Influenza Virus A M1 Protein Modulate Cholesterol-Dependent Activity of Cultured IC-21 Macrophages. <i>Biochemistry (Moscow)</i> , 2018, 83, 982-991.	1.5	5

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37	Ectodomain Pulling Combines with Fusion Peptide Inserting to Provide Cooperative Fusion for Influenza Virus and HIV. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5411.	4.1	5
38	Quasi-Atomistic Approach to Modeling of Liposomes. <i>Crystallography Reports</i> , 2020, 65, 258-263.	0.6	5
39	Isoprenoid lipid chains increase membrane resistance to pore formation. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2014, 8, 304-308.	0.6	4
40	Study of adsorption of Influenza virus matrix protein M1 on lipid membranes by the technique of fluorescent probes. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017, 11, 225-230.	0.6	4
41	Small-angle X-Ray analysis of macromolecular structure: the structure of protein NS2 (NEP) in solution. <i>Crystallography Reports</i> , 2017, 62, 894-902.	0.6	4
42	Voltammetric Analysis in Blood Serum in Patients with Severe Combined Trauma. <i>Doklady Physical Chemistry</i> , 2019, 486, 67-69.	0.9	4
43	Effect of acidity on the formation of solvent-free lipid bilayers. <i>Russian Journal of Electrochemistry</i> , 2006, 42, 1107-1112.	0.9	3
44	Molecular distribution and charge of polylysine layers at the surface of lipid membranes and mica. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2009, 3, 496-503.	0.6	3
45	Electron transport and morphological changes in the electrode/erythrocyte system. <i>Mendeleev Communications</i> , 2017, 27, 183-185.	1.6	3
46	Mechanism of pore formation in stearyl-oleoyl-phosphatidylcholine membranes subjected to lateral tension. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017, 11, 193-205.	0.6	3
47	Electrochemical activity and morphology of human erythrocytes at optically transparent ITO electrode. <i>Doklady Physical Chemistry</i> , 2017, 477, 201-204.	0.9	3
48	Cyclopentane rings in hydrophobic chains of a phospholipid enhance the bilayer stability to electric breakdown. <i>Soft Matter</i> , 2020, 16, 3216-3223.	2.7	3
49	Superhydrophobization of low-carbon steel with conversion coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014, 50, 898-902.	1.1	2
50	Line tension and structure of through pore edge in lipid bilayer. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2014, 8, 297-303.	0.6	2
51	Protein-Lipid Interactions in Formation of Viral Envelopes. <i>Biophysical Journal</i> , 2020, 118, 523a.	0.5	2
52	Membrane shape changes at initial stage of membrane fusion under the action of proteins inducing spontaneous curvature. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2013, 7, 234-241.	0.6	1
53	Normal Fluctuations of Biological Membrane Shape as a Coupling Factor for Ordered Monolayer Domains. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2019, 13, 205-211.	0.6	1
54	Scanning probe microscopy investigation of the bacteriophage effect on bacterial biofilms. <i>Microscopy and Microanalysis</i> , 2021, 27, 504-506.	0.4	1

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55	Interaction of Ordered Lipid Domain Boundaries and Amphipathic Peptides Regulates Probability of Pore Formation in Membranes. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2020, 14, 319-330.	0.6	1
56	Experimental and theoretical studies of self-organization of complex protein structures. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2009, 3, 308-308.	0.6	0
57	Mechanisms of Self-Assembly and Dissection of Influenza A Virus Protein Scaffold. <i>Biophysical Journal</i> , 2014, 106, 63a.	0.5	0
58	Influence of Ether Bonds and Branched Lipid Tails on Stability of Membranes to Pore Formation. <i>Biophysical Journal</i> , 2015, 108, 238a-239a.	0.5	0
59	Edge Structure of through Pore in Lipid Membrane. <i>Biophysical Journal</i> , 2015, 108, 88a.	0.5	0
60	Mechanism of Line Activity of Ganglioside GM1 on Liquid-Ordered Domains. <i>Biophysical Journal</i> , 2016, 110, 582a.	0.5	0
61	Electrostatic Forces Govern Assembly and Disintegration of the Influenza Virus Protein Scaffold to Provide Tension for Membrane Fusion. <i>Biophysical Journal</i> , 2016, 110, 421a.	0.5	0
62	Assembly of Matrix Protein 1 of Influenza a Virus and its Role in Budding Process. <i>Biophysical Journal</i> , 2017, 112, 390a.	0.5	0
63	The Pathway of Singlet Oxygen Diffusion through the Membrane Governs Whether Double Bonds or Aromatic Rings of a Molecule are Damaged. <i>Biophysical Journal</i> , 2017, 112, 522a-523a.	0.5	0
64	Energy Landscape of Pore Formation in Bilayer Lipid Membrane. <i>Biophysical Journal</i> , 2017, 112, 468a.	0.5	0
65	Energy Landscape of Membrane Deformations Predicts Mechanism of Pore Formation by Antimicrobial Peptides. <i>Biophysical Journal</i> , 2018, 114, 260a.	0.5	0
66	Electrochemical Interactions upon Contact of Erythrocytes with Platinum. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 1126-1131.	0.9	0
67	Gangliosides and Lysolipids Regulate the Size of Membrane Rafts Depending on the Membrane Composition. <i>Biophysical Journal</i> , 2018, 114, 271a.	0.5	0
68	Effect of Lipid Structure and Material Properties on the Membrane Stability to Pore Formation. <i>Biophysical Journal</i> , 2020, 118, 390a.	0.5	0
69	Lateral Interactions Influence the Kinetics of Metastable Pores in Lipid Membranes. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2020, 14, 117-125.	0.6	0
70	Atomic Force Microscopy in the Study of Protein Self-Assembly. <i>Biophysical Journal</i> , 2020, 118, 200a.	0.5	0
71	Physicochemical and Electrochemical Aspects of the Functioning of Biological Membranes. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 471-476.	0.6	0
72	Nanoscale Characterization of Specific Interaction of Lytic Bacteriophages with Biofilms. <i>Biophysical Journal</i> , 2021, 120, 275a.	0.5	0