

Oleg Batishchev

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61 papers	602 citations	12 h-index	22 g-index
82 ext. papers	808 ext. citations	2.4 avg, IF	3.87 L-index

#	Paper	IF	Citations
61	Peptide-induced membrane elastic deformations decelerate gramicidin dimer-monomer equilibration. <i>Biophysical Journal</i> , 2021 , 120, 5309-5321	2.9	0
60	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,	3.8	1
59	Spatial organization of Dps and DNA-Dps complexes. <i>Journal of Molecular Biology</i> , 2021 , 433, 166930	6.5	6
58	Scanning probe microscopy investigation of the bacteriophage effect on bacterial biofilms. <i>Microscopy and Microanalysis</i> , 2021 , 27, 504-506	0.5	1
57	Activity-dependent conformational transitions of the insulin receptor-related receptor. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100534	5.4	3
56	Continuum Models of Membrane Fusion: Evolution of the Theory. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
55	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	0.7	
54	Elastic deformations mediate interaction of the raft boundary with membrane inclusions leading to their effective lateral sorting. <i>Scientific Reports</i> , 2020 , 10, 4087	4.9	7
53	Cyclopentane rings in hydrophobic chains of a phospholipid enhance the bilayer stability to electric breakdown. <i>Soft Matter</i> , 2020 , 16, 3216-3223	3.6	0
52	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	5.1	3
51	Quasi-Atomistic Approach to Modeling of Liposomes. <i>Crystallography Reports</i> , 2020 , 65, 258-263	0.6	3
50	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	0.7	0
49	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	3.6	4
48	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	3.8	4
47	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,	6.3	4
46	Membrane-Mediated Lateral Interactions Regulate the Lifetime of Gramicidin Channels. <i>Membranes</i> , 2020 , 10,	3.8	2
45	Physicochemical and Electrochemical Aspects of the Functioning of Biological Membranes. <i>Russian Journal of Physical Chemistry A</i> , 2020 , 94, 471-476	0.7	

44	Membrane-mediated interaction of amphipathic peptides can be described by a one-dimensional approach. <i>Physical Review E</i> , 2019 , 99, 022401	2.4	10
43	Voltammetric Analysis in Blood Serum in Patients with Severe Combined Trauma. <i>Doklady Physical Chemistry</i> , 2019 , 486, 67-69	0.8	2
42	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	5.4	8
41	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	0.7	0
40	Effects of Sterols on the Interaction of SDS, Benzalkonium Chloride, and A Novel Compound, Kor105, with Membranes. <i>Biomolecules</i> , 2019 , 9,	5.9	3
39	The Effect of Transmembrane Protein Shape on Surrounding Lipid Domain Formation by Wetting. <i>Biomolecules</i> , 2019 , 9,	5.9	4
38	Lipid Membrane Adsorption Determines Photodynamic Efficiency of Imidazolyl-Substituted Porphyrins. <i>Biomolecules</i> , 2019 , 9,	5.9	2
37	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,	6.6	5
36	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	3.6	16
35	Phosphatidylcholine Membrane Fusion Is pH-Dependent. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	5
34	Lateral Membrane Heterogeneity Regulates Viral-Induced Membrane Fusion during HIV Entry. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12
33	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	3.9	3
32	Electrochemical Interactions upon Contact of Erythrocytes with Platinum. <i>Russian Journal of Electrochemistry</i> , 2018 , 54, 1126-1131	1.2	
31	Residence time of singlet oxygen in membranes. <i>Scientific Reports</i> , 2018 , 8, 14000	4.9	11
30	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	3.8	16
29	Line Activity of Ganglioside GM1 Regulates the Raft Size Distribution in a Cholesterol-Dependent Manner. <i>Langmuir</i> , 2017 , 33, 3517-3524	4	27
28	Electron transport and morphological changes in the electrode/erythrocyte system. <i>Mendeleev Communications</i> , 2017 , 27, 183-185	1.9	3
27	Pore formation in lipid membrane II: Energy landscape under external stress. <i>Scientific Reports</i> , 2017 , 7, 12509	4.9	55

26	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	0.7	2
25	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	4.9	67
24	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	0.7	2
23	Origin of proton affinity to membrane/water interfaces. <i>Scientific Reports</i> , 2017 , 7, 4553	4.9	36
22	Electrochemical activity and morphology of human erythrocytes at optically transparent ITO electrode. <i>Doklady Physical Chemistry</i> , 2017 , 477, 201-204	0.8	3
21	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	4.9	17
20	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	3
19	Interaction of amphipathic peptides mediated by elastic membrane deformations. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017 , 11, 206-216	0.7	6
18	Switching between Successful and Dead-End Intermediates in Membrane Fusion. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	10
17	   <i>Biologicheskoe Membrany</i> , 2017 , 162-173	0.1	
16	   <i>Biologicheskoe Membrany</i> , 2017 , 270-283	0.1	
15	   <i>Biologicheskoe Membrany</i> , 2017 , 194-200	0.1	
14	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, 575-85	6.6	29
13	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	0.7	7
12	Superhydrophobization of low-carbon steel with conversion coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2014 , 50, 898-902	0.9	2
11	Isoprenoid lipid chains increase membrane resistance to pore formation. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2014 , 8, 304-308	0.7	4
10	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	0.7	2
9	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	0.7	1

8	Interaction of Polylysines with the Surface of Lipid Membranes. <i>Behavior Research Methods</i> , 2013 , 17, 139-166	6.1	9
7	Structural analysis of influenza A virus matrix protein M1 and its self-assemblies at low pH. <i>PLoS ONE</i> , 2013 , 8, e82431	3.7	46
6	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	3.7	59
5	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	0.7	
4	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	0.7	3
3	Alkylated glass partition allows formation of solvent-free lipid bilayer by Montal-Mueller technique. <i>Bioelectrochemistry</i> , 2008 , 74, 22-5	5.6	22
2	Effect of acidity on the formation of solvent-free lipid bilayers. <i>Russian Journal of Electrochemistry</i> , 2006 , 42, 1107-1112	1.2	2
1	Heat transport and electron distribution function in laser produced plasmas with hot spots. <i>Physics of Plasmas</i> , 2002 , 9, 2302-2310	2.1	35