

Timur R Galimzyanov

List of Publications by Year in descending order

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75
papers

842
citations

471061

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525886

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85
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85
docs citations

85
times ranked

608
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.	1.6	102
2	Pore formation in lipid membrane II: Energy landscape under external stress. <i>Scientific Reports</i> , 2017, 7, 12509.	1.6	73
3	Elastic Membrane Deformations Govern Interleaflet Coupling of Lipid-Ordered Domains. <i>Physical Review Letters</i> , 2015, 115, 088101.	2.9	66
4	Line Activity of Ganglioside GM1 Regulates the Raft Size Distribution in a Cholesterol-Dependent Manner. <i>Langmuir</i> , 2017, 33, 3517-3524.	1.6	37
5	Undulations Drive Domain Registration from the Two Membrane Leaflets. <i>Biophysical Journal</i> , 2017, 112, 339-345.	0.2	34
6	Metabolic Precursor of Cholesterol Causes Formation of Chained Aggregates of Liquid-Ordered Domains. <i>Langmuir</i> , 2016, 32, 1591-1600.	1.6	30
7	Ordered Lipid Domains Assemble via Concerted Recruitment of Constituents from Both Membrane Leaflets. <i>Physical Review Letters</i> , 2020, 124, 108102.	2.9	29
8	Continuum Models of Membrane Fusion: Evolution of the Theory. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3875.	1.8	27
9	Elastic deformations mediate interaction of the raft boundary with membrane inclusions leading to their effective lateral sorting. <i>Scientific Reports</i> , 2020, 10, 4087.	1.6	27
10	Membrane-mediated interaction of amphipathic peptides can be described by a one-dimensional approach. <i>Physical Review E</i> , 2019, 99, 022401.	0.8	26
11	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.	1.6	25
12	Membrane Elastic Deformations Modulate Gramicidin A Transbilayer Dimerization and Lateral Clustering. <i>Biophysical Journal</i> , 2018, 115, 478-493.	0.2	25
13	Energy of the interaction between membrane lipid domains calculated from splay and tilt deformations. <i>JETP Letters</i> , 2013, 96, 681-686.	0.4	22
14	Lateral Membrane Heterogeneity Regulates Viral-Induced Membrane Fusion during HIV Entry. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1483.	1.8	22
15	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.	1.4	20
16	Electrolyte mixture based on acetonitrile and ethyl acetate for a wide temperature range performance of the supercapacitors. <i>Journal of Power Sources</i> , 2021, 495, 229442.	4.0	19
17	Phospholipidic Colchicinoids as Promising Prodrugs Incorporated into Enzyme-Responsive Liposomes: Chemical, Biophysical, and Enzymological Aspects. <i>Bioconjugate Chemistry</i> , 2019, 30, 1098-1113.	1.8	18
18	Residence time of singlet oxygen in membranes. <i>Scientific Reports</i> , 2018, 8, 14000.	1.6	17

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19	Photoswitching of model ion channels in lipid bilayers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 224, 112320.	1.7	17
20	Switching between Successful and Dead-End Intermediates in Membrane Fusion. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2598.	1.8	15
21	Galimzyanov et al. Reply. <i>Physical Review Letters</i> , 2016, 116, 079802.	2.9	14
22	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.	1.2	14
23	Analytical calculation of the lipid bilayer bending modulus. <i>Physical Review E</i> , 2016, 94, 042415.	0.8	13
24	Elastic deformations of bialipid membranes. <i>Soft Matter</i> , 2016, 12, 2357-2364.	1.2	13
25	Stabilization of bilayer structure of raft due to elastic deformations of membrane. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2011, 5, 286-292.	0.3	12
26	Additional contributions to elastic energy of lipid membranes: Tilt-curvature coupling and curvature gradient. <i>Physical Review E</i> , 2020, 102, 042406.	0.8	11
27	Amphipathic Peptides Impede Lipid Domain Fusion in Phase-Separated Membranes. <i>Membranes</i> , 2021, 11, 797.	1.4	10
28	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.	0.3	9
29	The Effect of Transmembrane Protein Shape on Surrounding Lipid Domain Formation by Wetting. <i>Biomolecules</i> , 2019, 9, 729.	1.8	9
30	Phase separation in lipid membranes induced by the elastic properties of components. <i>JETP Letters</i> , 2011, 93, 463-469.	0.4	8
31	Interaction of amphipathic peptides mediated by elastic membrane deformations. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017, 11, 206-216.	0.3	7
32	Heterogeneity in Lateral Distribution of Polycations at the Surface of Lipid Membrane: From the Experimental Data to the Theoretical Model. <i>Materials</i> , 2021, 14, 6623.	1.3	7
33	Determinants of Lipid Domain Size. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3502.	1.8	7
34	Polypeptides on the Surface of Lipid Membranes. Theoretical Analysis of Electrokinetic Data. <i>Colloid Journal</i> , 2019, 81, 125-135.	0.5	6
35	Membrane-Mediated Lateral Interactions Regulate the Lifetime of Gramicidin Channels. <i>Membranes</i> , 2020, 10, 368.	1.4	6
36	Classes of metastable thermodynamic quantum time crystals. <i>Physical Review B</i> , 2019, 100, .	1.1	5

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37	Nonlinear material and ionic transport through membrane nanotubes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183677.	1.4	5
38	Microscopic Description of the Thermodynamics of a Lipid Membrane at a Liquid-Gel Phase Transition. <i>JETP Letters</i> , 2018, 107, 718-724.	0.4	4
39	Origin of lipid tilt in flat monolayers and bilayers. <i>Physical Review E</i> , 2019, 100, 062405.	0.8	4
40	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.	0.3	3
41	Detection of DNA molecules in a lipid nanotube channel in the low ion strength conditions. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2017, 11, 217-224.	0.3	3
42	Cyclopentane rings in hydrophobic chains of a phospholipid enhance the bilayer stability to electric breakdown. <i>Soft Matter</i> , 2020, 16, 3216-3223.	1.2	3
43	Inhomogeneity of polylysine adsorption layers on lipid membranes revealed by theoretical analysis of electrokinetic data and molecular dynamics simulations. <i>Bioelectrochemistry</i> , 2021, 141, 107828.	2.4	3
44	Single fermion Green's function in the quantum ordered Fermi-system: Analytic solution. <i>Physica B: Condensed Matter</i> , 2012, 407, 1882-1884.	1.3	2
45	Lipid lateral self-diffusion drop at liquid-gel phase transition. <i>Physical Review E</i> , 2019, 99, 012414.	0.8	2
46	Archaeal cyclopentane fragment in a surfactant's hydrophobic tail decreases the Krafft point. <i>Soft Matter</i> , 2020, 16, 1333-1341.	1.2	2
47	Line tension and structure of raft boundary calculated from bending, tilt, and lateral compression/stretching. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2011, 5, 385-391.	0.3	1
48	Bolalipid Membranes: Elasticity Theory Approach. <i>Biophysical Journal</i> , 2015, 108, 88a.	0.2	1
49	Lateral redistribution of transmembrane proteins and liquid-ordered domains in lipid membranes with inhomogeneous curvature. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2016, 10, 259-268.	0.3	1
50	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.	0.3	1
51	Interaction of Peptides Containing CRAC Motifs with Lipids in Membranes of Various Composition. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 120-129.	0.3	1
52	Influence of Ionic Strength on Adsorption of Polypeptides on Lipid Membranes: Theoretical Analysis. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 175-183.	0.3	1
53	Configurations of Ordered Domain Boundary in Lipid Membrane on Solid Support. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 239-248.	0.3	1
54	Interaction of Ordered Lipid Domains in the Presence of Amphipatic Peptides. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 219-229.	0.3	1

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55	Elastic Deformations at a Boundary Stabilizes Opposition of Monolayer Rafts in the Structure of a Bilayer Raft. <i>Biophysical Journal</i> , 2012, 102, 295a.	0.2	0
56	High Superconducting T _c and Suppressed Isotope Effect in the Instantonic Condensate State of the Fermi-System: Analytic Solution. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2679-2683.	0.8	0
57	Raft Boundary Structure is Responsible for Monolayer Domains Coupling and Line Activity of Non-Bilayer Components. <i>Biophysical Journal</i> , 2014, 106, 93a.	0.2	0
58	Phenomenological Elasticity Theory Approach to Bolalipid Membranes. <i>Biophysical Journal</i> , 2014, 106, 287a.	0.2	0
59	Flexible String Model Analytical Description of Main Phase Transition in Lipid Bilayers. <i>Biophysical Journal</i> , 2016, 110, 73a.	0.2	0
60	Mechanism of Line Activity of Ganglioside GM1 on Liquid-Ordered Domains. <i>Biophysical Journal</i> , 2016, 110, 582a.	0.2	0
61	Transbilayer Registration of Liquid-Ordered Domains: No Interactions at the Membrane Midplane Required. <i>Biophysical Journal</i> , 2016, 110, 579a.	0.2	0
62	Liquid Membrane Fluctuations Drive Ordered Monolayer Domain Alignment and Raft Stacking. <i>Biophysical Journal</i> , 2017, 112, 383a.	0.2	0
63	Energy Landscape of Pore Formation in Bilayer Lipid Membrane. <i>Biophysical Journal</i> , 2017, 112, 468a.	0.2	0
64	Energy Landscape of Membrane Deformations Predicts Mechanism of Pore Formation by Antimicrobial Peptides. <i>Biophysical Journal</i> , 2018, 114, 260a.	0.2	0
65	Modulation of Ionic Conductivity of Lipid Bilayer-Based Nanoscopic Channels by Pre-adsorbed Charged Macromolecules as a Tool for their Detection and Quantification. <i>Biophysical Journal</i> , 2018, 114, 686a-687a.	0.2	0
66	Leaky Intermediates and Possible Dead-End Configurations in Membrane Fusion. <i>Biophysical Journal</i> , 2018, 114, 606a.	0.2	0
67	Lipid Domain Boundary as Universal Attractor. <i>Biophysical Journal</i> , 2018, 114, 102a.	0.2	0
68	Modeling of the Interaction of Viral Fusion Peptides with the Domains of Liquid-Ordered Phase in a Lipid Membrane. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2018, 12, 352-359.	0.3	0
69	Gangliosides and Lysolipids Regulate the Size of Membrane Rafts Depending on the Membrane Composition. <i>Biophysical Journal</i> , 2018, 114, 271a.	0.2	0
70	Membrane-Mediated Gramicidin Interactions Determine Peptide Clustering and Enhance Channel Formation. <i>Biophysical Journal</i> , 2018, 114, 277a-278a.	0.2	0
71	Modeling of the Initial Stage of Fusion of Influenza Virus with Liposomes. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2019, 13, 120-129.	0.3	0
72	Ordered Lipid Domains Assemble via Concerted Recruitment of Constituents from Both Membrane Leaflets. <i>Biophysical Journal</i> , 2019, 116, 328a.	0.2	0

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73	Origin of Lipid Tilt in Flat Lipid Monolayers and Bilayers. Biophysical Journal, 2020, 118, 390a.	0.2	0
74	Effect of Lipid Structure and Material Properties on the Membrane Stability to Pore Formation. Biophysical Journal, 2020, 118, 390a.	0.2	0
75	Interleaflet Interaction in Phase Separated Asymmetric Lipid Bilayers. Biophysical Journal, 2020, 118, 388a.	0.2	0