

# Timur R Galimzyanov

## List of Publications by Year in descending order

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75  
papers

842  
citations

471061

17  
h-index

525886

27  
g-index

85  
all docs

85  
docs citations

85  
times ranked

608  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determinants of Lipid Domain Size. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3502.	1.8	7
2	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
3	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
4	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
5	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
6	Interaction of Ordered Lipid Domains in the Presence of Amphipathic Peptides. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , 2021, 15, 219-229.	0.3	1
7	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
8	Nonlinear material and ionic transport through membrane nanotubes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183677.	1.4	5
9	Photoswitching of model ion channels in lipid bilayers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2021, 224, 112320.	1.7	17
10	Amphipathic Peptides Impede Lipid Domain Fusion in Phase-Separated Membranes. <i>Membranes</i> , 2021, 11, 797.	1.4	10
11	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
12	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
13	Archaeal cyclopentane fragment in a surfactant's hydrophobic tail decreases the Krafft point. <i>Soft Matter</i> , 2020, 16, 1333-1341.	1.2	2
14	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
15	Origin of Lipid Tilt in Flat Lipid Monolayers and Bilayers. <i>Biophysical Journal</i> , 2020, 118, 390a.	0.2	0
16	Membrane-Mediated Lateral Interactions Regulate the Lifetime of Gramicidin Channels. <i>Membranes</i> , 2020, 10, 368.	1.4	6
17	Effect of Lipid Structure and Material Properties on the Membrane Stability to Pore Formation. <i>Biophysical Journal</i> , 2020, 118, 390a.	0.2	0
18	Continuum Models of Membrane Fusion: Evolution of the Theory. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3875.	1.8	27

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19	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
20	Ordered Lipid Domains Assemble via Concerted Recruitment of Constituents from Both Membrane Leaflets. <i>Physical Review Letters</i> , 2020, 124, 108102.	2.9	29
21	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
22	Interleaflet Interaction in Phase Separated Asymmetric Lipid Bilayers. <i>Biophysical Journal</i> , 2020, 118, 388a.	0.2	0
23	Classes of metastable thermodynamic quantum time crystals. <i>Physical Review B</i> , 2019, 100, .	1.1	5
24	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
25	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
26	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
27	Polypeptides on the Surface of Lipid Membranes. Theoretical Analysis of Electrokinetic Data. <i>Colloid Journal</i> , 2019, 81, 125-135.	0.5	6
28	Ordered Lipid Domains Assemble via Concerted Recruitment of Constituents from Both Membrane Leaflets. <i>Biophysical Journal</i> , 2019, 116, 328a.	0.2	0
29	Lipid lateral self-diffusion drop at liquid-gel phase transition. <i>Physical Review E</i> , 2019, 99, 012414.	0.8	2
30	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
31	The Effect of Transmembrane Protein Shape on Surrounding Lipid Domain Formation by Wetting. <i>Biomolecules</i> , 2019, 9, 729.	1.8	9
32	Origin of lipid tilt in flat monolayers and bilayers. <i>Physical Review E</i> , 2019, 100, 062405.	0.8	4
33	Energy Landscape of Membrane Deformations Predicts Mechanism of Pore Formation by Antimicrobial Peptides. <i>Biophysical Journal</i> , 2018, 114, 260a.	0.2	0
34	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
35	Leaky Intermediates and Possible Dead-End Configurations in Membrane Fusion. <i>Biophysical Journal</i> , 2018, 114, 606a.	0.2	0
36	Lipid Domain Boundary as Universal Attractor. <i>Biophysical Journal</i> , 2018, 114, 102a.	0.2	0

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37	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
38	Residence time of singlet oxygen in membranes. <i>Scientific Reports</i> , 2018, 8, 14000.	1.6	17
39	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
40	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
41	Membrane Elastic Deformations Modulate Gramicidin A Transbilayer Dimerization and Lateral Clustering. <i>Biophysical Journal</i> , 2018, 115, 478-493.	0.2	25
42	Lateral Membrane Heterogeneity Regulates Viral-Induced Membrane Fusion during HIV Entry. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1483.	1.8	22
43	Gangliosides and Lysolipids Regulate the Size of Membrane Rafts Depending on the Membrane Composition. <i>Biophysical Journal</i> , 2018, 114, 271a.	0.2	0
44	Membrane-Mediated Gramicidin Interactions Determine Peptide Clustering and Enhance Channel Formation. <i>Biophysical Journal</i> , 2018, 114, 277a-278a.	0.2	0
45	Undulations Drive Domain Registration from the Two Membrane Leaflets. <i>Biophysical Journal</i> , 2017, 112, 339-345.	0.2	34
46	Liquid Membrane Fluctuations Drive Ordered Monolayer Domain Alignment and Raft Stacking. <i>Biophysical Journal</i> , 2017, 112, 383a.	0.2	0
47	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
48	Energy Landscape of Pore Formation in Bilayer Lipid Membrane. <i>Biophysical Journal</i> , 2017, 112, 468a.	0.2	0
49	Pore formation in lipid membrane II: Energy landscape under external stress. <i>Scientific Reports</i> , 2017, 7, 12509.	1.6	73
50	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
51	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
52	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
53	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
54	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

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55	Switching between Successful and Dead-End Intermediates in Membrane Fusion. International Journal of Molecular Sciences, 2017, 18, 2598.	1.8	15
56	Lateral redistribution of transmembrane proteins and liquid-ordered domains in lipid membranes with inhomogeneous curvature. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 259-268.	0.3	1
57	Flexible String Model Analytical Description of Main Phase Transition in Lipid Bilayers. Biophysical Journal, 2016, 110, 73a.	0.2	0
58	Mechanism of Line Activity of Ganglioside GM1 on Liquid-Ordered Domains. Biophysical Journal, 2016, 110, 582a.	0.2	0
59	Galimzyanov et al. Reply. Physical Review Letters, 2016, 116, 079802.	2.9	14
60	Analytical calculation of the lipid bilayer bending modulus. Physical Review E, 2016, 94, 042415.	0.8	13
61	Transbilayer Registration of Liquid-Ordered Domains: No Interactions at the Membrane Midplane Required. Biophysical Journal, 2016, 110, 579a.	0.2	0
62	Elastic deformations of bolalipid membranes. Soft Matter, 2016, 12, 2357-2364.	1.2	13
63	Metabolic Precursor of Cholesterol Causes Formation of Chained Aggregates of Liquid-Ordered Domains. Langmuir, 2016, 32, 1591-1600.	1.6	30
64	Elastic Membrane Deformations Govern Interleaflet Coupling of Lipid-Ordered Domains. Physical Review Letters, 2015, 115, 088101.	2.9	66
65	Bolalipid Membranes: Elasticity Theory Approach. Biophysical Journal, 2015, 108, 88a.	0.2	1
66	Raft Boundary Structure is Responsible for Monolayer Domains Coupling and Line Activity of Non-Bilayer Components. Biophysical Journal, 2014, 106, 93a.	0.2	0
67	Model of membrane fusion: Continuous transition to fusion pore with regard of hydrophobic and hydration interactions. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2014, 8, 153-161.	0.3	9
68	Phenomenological Elasticity Theory Approach to Bolalipid Membranes. Biophysical Journal, 2014, 106, 287a.	0.2	0
69	Energy of the interaction between membrane lipid domains calculated from splay and tilt deformations. JETP Letters, 2013, 96, 681-686.	0.4	22
70	High Superconducting $T_c$ and Suppressed Isotope Effect in the Instantonic Condensate State of the Fermi-System: Analytic Solution. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2679-2683.	0.8	0
71	Elastic Deformations at a Boundary Stabilizes Opposition of Monolayer Rafts in the Structure of a Bilayer Raft. Biophysical Journal, 2012, 102, 295a.	0.2	0
72	Single fermion Green's function in the quantum ordered Fermi-system: Analytic solution. Physica B: Condensed Matter, 2012, 407, 1882-1884.	1.3	2

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73	Phase separation in lipid membranes induced by the elastic properties of components. JETP Letters, 2011, 93, 463-469.	0.4	8
74	Stabilization of bilayer structure of raft due to elastic deformations of membrane. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2011, 5, 286-292.	0.3	12
75	Line tension and structure of raft boundary calculated from bending, tilt, and lateral compression/stretching. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2011, 5, 385-391.	0.3	1