Rumiana Dimova

List of Publications by Year in descending order

178 papers	10,575 citations	30047 54 h-index	38368 95 g-index
195 all docs	195 docs citations	195 times ranked	9873 citing authors

#	Article	IF	Citations
1	Liposomes and polymersomes: a comparative review towards cell mimicking. Chemical Society Reviews, 2018, 47, 8572-8610.	18.7	731
2	Boron Carbon Nitride Nanostructures from Salt Melts: Tunable Water-Soluble Phosphors. Journal of the American Chemical Society, 2011, 133, 7121-7127.	6.6	428
3	Recent developments in the field of bending rigidity measurements on membranes. Advances in Colloid and Interface Science, 2014, 208, 225-234.	7.0	400
4	Sequential bottom-up assembly of mechanically stabilized synthetic cells by microfluidics. Nature Materials, 2018, 17, 89-96.	13.3	314
5	Effect of cholesterol on the rigidity of saturated and unsaturated membranes: fluctuation and electrodeformation analysis of giant vesicles. Soft Matter, 2010, 6, 1472.	1.2	301
6	A practical guide to giant vesicles. Probing the membrane nanoregime via optical microscopy. Journal of Physics Condensed Matter, 2006, 18, S1151-S1176.	0.7	266
7	Electro-Deformation and Poration of Giant Vesicles Viewed with High Temporal Resolution. Biophysical Journal, 2005, 88, 1143-1155.	0.2	239
8	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392.	7.2	234
9	Time scales of membrane fusion revealed by direct imaging of vesicle fusion with high temporal resolution. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15841-15846.	3.3	219
10	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	1.3	212
11	Giant vesicles in electric fields. Soft Matter, 2007, 3, 817.	1.2	201
12	Pretransitional Effects in Dimyristoylphosphatidylcholine Vesicle Membranes: Optical Dynamometry Study. Biophysical Journal, 2000, 79, 340-356.	0.2	179
13	Transport of Beads by Several Kinesin Motors. Biophysical Journal, 2008, 94, 532-541.	0.2	177
14	Isothermal Titration Calorimetry of the Polyelectrolyte/Water Interaction and Binding of Ca2+:Â Effects Determining the Quality of Polymeric Scale Inhibitors. Macromolecules, 2004, 37, 3444-3450.	2.2	166
15	Vesicles in electric fields: Some novel aspects of membrane behavior. Soft Matter, 2009, 5, 3201.	1.2	155
16	A New Method for Measuring Edge Tensions and Stability of Lipid Bilayers: Effect of Membrane Composition. Biophysical Journal, 2010, 99, 3264-3273.	0.2	151
17	Controlled division of cell-sized vesicles by low densities of membrane-bound proteins. Nature Communications, 2020, 11, 905.	5.8	143
18	Membrane nanotubes induced by aqueous phase separation and stabilized by spontaneous curvature. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4731-4736.	3.3	141

#	Article	IF	Citations
19	Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie - International Edition, 2020, 59, 5950-5957.	7.2	139
20	Binding of calcium to phosphatidylcholineâ€“phosphatidylserine membranes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 282-283, 410-419.	2.3	135
21	Cell rigidity and shape override CD47â€™s â€œselfâ€•signaling in phagocytosis by hyperactivating myosin-II. Blood, 2015, 125, 542-552.	0.6	122
22	Interactions of Alkali Metal Chlorides with Phosphatidylcholine Vesicles. Langmuir, 2010, 26, 18951-18958.	1.6	120
23	Electrohydrodynamic Model of Vesicle Deformation in Alternating Electric Fields. Biophysical Journal, 2009, 96, 4789-4803.	0.2	118
24	Concentration Dependence of the Interfacial Tension for Aqueous Two-Phase Polymer Solutions of Dextran and Polyethylene Glycol. Langmuir, 2012, 28, 3831-3839.	1.6	118
25	Domains in membranes and vesicles. Journal of Physics Condensed Matter, 2003, 15, S31-S45.	0.7	114
26	Composition dependence of vesicle morphology and mixing properties in a bacterial model membrane system. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1716, 40-48.	1.4	114
27	Mechanical properties of plasma membrane vesicles correlate with lipid order, viscosity and cell density. Communications Biology, 2019, 2, 337.	2.0	105
28	Title is missing!. European Physical Journal E, 2002, 7, 241-250.	0.7	103
29	Binding of Chitosan to Phospholipid Vesicles Studied with Isothermal Titration Calorimetry. Langmuir, 2011, 27, 5506-5515.	1.6	98
30	Phase Diagram and Tie-Line Determination for the Ternary Mixture DOPC/eSM/Cholesterol. Biophysical Journal, 2013, 104, 1456-1464.	0.2	97
31	Giant Vesicles and Their Use in Assays for Assessing Membrane Phase State, Curvature, Mechanics, and Electrical Properties. Annual Review of Biophysics, 2019, 48, 93-119.	4.5	97
32	The glycolipid GM1 reshapes asymmetric biomembranes and giant vesicles by curvature generation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5756-5761.	3.3	95
33	Electric Pulses Induce Cylindrical Deformations on Giant Vesicles in Salt Solutions. Biophysical Journal, 2006, 91, 1778-1786.	0.2	94
34	Thermal property changes of poly(N-isopropylacrylamide) microgel particles and block copolymers. Colloid and Polymer Science, 2009, 287, 299-312.	1.0	93
35	Morphological Transitions of Vesicles Induced by Alternating Electric Fields. Biophysical Journal, 2008, 95, L19-L21.	0.2	92
36	The Hydration Repulsion between Charged Surfaces as an Interplay of Volume Exclusion and Dielectric Saturation Effects. Journal of Colloid and Interface Science, 1996, 182, 239-248.	5.0	91

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37	Film Trapping Technique:Â Precise Method for Three-Phase Contact Angle Determination of Solid and Fluid Particles of Micrometer Size. Langmuir, 1996, 12, 6665-6675.	1.6	90
38	Falling ball viscosimetry of giant vesicle membranes: Finite-size effects. European Physical Journal B, 1999, 12, 589-598.	0.6	87
39	Charged giant unilamellar vesicles prepared by electroformation exhibit nanotubes and transbilayer lipid asymmetry. Scientific Reports, 2018, 8, 11838.	1.6	86
40	Calcium Binding and Head Group Dipole Angle in Phosphatidylserineâ"Phosphatidylcholine Bilayers. Langmuir, 2009, 25, 1020-1027.	1.6	84
41	Bending rigidity of charged lipid bilayer membranes. Soft Matter, 2019, 15, 6006-6013.	1.2	82
42	Viscous drag of a solid sphere straddling a spherical or flat surface. Physics of Fluids, 2000, 12, 2711.	1.6	80
43	Transition from Complete to Partial Wetting within Membrane Compartments. Journal of the American Chemical Society, 2008, 130, 12252-12253.	6.6	79
44	Patterns of Flexible Nanotubes Formed by Liquid-Ordered and Liquid-Disordered Membranes. ACS Nano, 2016, 10, 463-474.	7.3	79
45	Optimization of the Inverted Emulsion Method for Highâ€Yield Production of Biomimetic Giant Unilamellar Vesicles. ChemBioChem, 2019, 20, 2674-2682.	1.3	77
46	Highly Efficient Protein-free Membrane Fusion: AÂGiant Vesicle Study. Biophysical Journal, 2019, 116, 79-91.	0.2	76
47	Effect of the HIV-1 fusion peptide on the mechanical properties and leaflet coupling of lipid bilayers. New Journal of Physics, 2011, 13, 025004.	1.2	72
48	Giant Unilamellar Vesicles Formed by Hybrid Films of Agarose and Lipids Display Altered Mechanical Properties. Biophysical Journal, 2014, 107, 1609-1619.	0.2	72
49	Behavior of Giant Vesicles with Anchored DNA Molecules. Biophysical Journal, 2007, 92, 4356-4368.	0.2	70
50	Autophagosome closure requires membrane scission. Autophagy, 2015, 11, 2134-2137.	4.3	66
51	Vesicles with charged domains. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 1338-1347.	1.4	63
52	Asymmetric Ionic Conditions Generate Large Membrane Curvatures. Nano Letters, 2018, 18, 7816-7821.	4.5	63
53	Solution Behavior of Double-Hydrophilic Block Copolymers in Dilute Aqueous Solution. Macromolecules, 2012, 45, 4772-4777.	2.2	62
54	Stability of Spherical Vesicles in Electric Fields. Langmuir, 2010, 26, 12390-12407.	1.6	60

#	Article	IF	Citations
55	Wrinkling and electroporation of giant vesicles in the gel phase. Soft Matter, 2010, 6, 1990.	1.2	58
56	Membrane Morphology Is Actively Transformed by Covalent Binding of the Protein Atg8 to PE-Lipids. PLoS ONE, 2014, 9, e115357.	1.1	58
57	Nanoparticle Formation in Giant Vesicles: Synthesis in Biomimetic Compartments. Small, 2009, 5, 2033-2037.	5.2	57
58	Posing for a picture: vesicle immobilization in agarose gel. Scientific Reports, 2016, 6, 25254.	1.6	56
59	Membrane Nanotubes Increase the Robustness of Giant Vesicles. ACS Nano, 2018, 12, 4478-4485.	7.3	56
60	Curvature of Double-Membrane Organelles Generated by Changes in Membrane Size and Composition. PLoS ONE, 2012, 7, e32753.	1.1	54
61	Insights on the Interactions of Chitosan with Phospholipid Vesicles. Part II: Membrane Stiffening and Pore Formation. Langmuir, 2013, 29, 14552-14559.	1.6	53
62	Intrinsic Contact Angle of Aqueous Phases at Membranes and Vesicles. Physical Review Letters, 2009, 103, 238103.	2.9	50
63	Electrodeformation method for measuring the capacitance of bilayer membranes. Soft Matter, 2012, 8, 3810.	1.2	50
64	Interferon-Induced Transmembrane Protein 3 Blocks Fusion of Diverse Enveloped Viruses by Altering Mechanical Properties of Cell Membranes. ACS Nano, 2021, 15, 8155-8170.	7.3	50
65	Drag of a Solid Particle Trapped in a Thin Film or at an Interface: Influence of Surface Viscosity and Elasticity. Journal of Colloid and Interface Science, 2000, 226, 35-43.	5.0	48
66	Bursting of charged multicomponent vesicles subjected to electric pulses. Soft Matter, 2009, 5, 1983.	1.2	48
67	The intrinsically disordered late embryogenesis abundant protein LEA18 from Arabidopsis thaliana modulates membrane stability through binding and folding. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 446-453.	1.4	48
68	Light-Guided Motility of a Minimal Synthetic Cell. Nano Letters, 2018, 18, 7268-7274.	4.5	47
69	Behavior of the DPH fluorescence probe in membranes perturbed by drugs. Chemistry and Physics of Lipids, 2019, 223, 104784.	1.5	47
70	Simple sugars shape giant vesicles into multispheres with many membrane necks. Soft Matter, 2020, 16, 1246-1258.	1.2	46
71	Membrane fluctuations and acidosis regulate cooperative binding of â€œmarker of selfâ€•CD47 with macrophage checkpoint receptor SIRPÍ±. Journal of Cell Science, 2018, 132, .	1.2	45
72	Droplets, bubbles, and vesicles at chemically structured surfaces. Journal of Physics Condensed Matter, 2005, 17, S537-S558.	0.7	43

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73	Wetting-Induced Budding of Vesicles in Contact with Several Aqueous Phases. Journal of Physical Chemistry B, 2012, 116, 1819-1823.	1.2	43
74	Ellipsoidal Relaxation of Deformed Vesicles. Physical Review Letters, 2015, 115, 128303.	2.9	42
75	Influence of different salts on micro-sized polyelectrolyte hollow capsules. Journal of Materials Chemistry, 2005, 15, 4301.	6.7	41
76	Binding of Polymers to Calcite Crystals in Water:â€‰ Characterization by Isothermal Titration Calorimetry. Langmuir, 2003, 19, 6097-6103.	1.6	40
77	The Conserved ESCRT-III Machinery Participates in the Phagocytosis of Entamoeba histolytica. Frontiers in Cellular and Infection Microbiology, 2018, 8, 53.	1.8	40
78	GM1 Softens POPC Membranes and Induces the Formation of Micron-Sized Domains. Biophysical Journal, 2016, 111, 1935-1945.	0.2	39
79	Cooperative behavior of molecular motors: Cargo transport and traffic phenomena. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 649-661.	1.3	38
80	Lipid membranes in contact with aqueous phases of polymer solutions. Soft Matter, 2012, 8, 6409.	1.2	38
81	Insights on the Interactions of Chitosan with Phospholipid Vesicles. Part I: Effect of Polymer Deprotonation. Langmuir, 2013, 29, 14545-14551.	1.6	38
82	Fluctuation spectroscopy of giant unilamellar vesicles using confocal and phase contrast microscopy. Soft Matter, 2020, 16, 8996-9001.	1.2	38
83	Novel Method for Measuring the Adhesion Energy of Vesicles. Langmuir, 2007, 23, 5423-5429.	1.6	37
84	Area Increase and Budding in Giant Vesicles Triggered by Light: Behind the Scene. Advanced Science, 2018, 5, 1800432.	5.6	37
85	Constructing artificial respiratory chain in polymer compartments: Insights into the interplay betweenbo₃oxidase and the membrane. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15006-15017.	3.3	37
86	Hyperviscous diblock copolymer vesicles. European Physical Journal E, 2002, 7, 241-250.	0.7	36
87	Membrane flow patterns in multicomponent giant vesicles induced by alternating electric fields. Soft Matter, 2008, 4, 2168.	1.2	34
88	Solution Asymmetry and Salt Expand Fluid-Fluid Coexistence Regions of Charged Membranes. Biophysical Journal, 2016, 110, 2581-2584.	0.2	34
89	Giant Vesicles Exposed to Aqueous Twoâ€Phase Systems: Membrane Wetting, Budding Processes, and Spontaneous Tubulation. Advanced Materials Interfaces, 2017, 4, 1600451.	1.9	34
90	A vesicle microrheometer for high-throughput viscosity measurements of lipid and polymer membranes. Biophysical Journal, 2022, 121, 910-918.	0.2	34

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91	Spatial Relationship and Functional Relevance of Three Lipid Domain Populations at the Erythrocyte Surface. Cellular Physiology and Biochemistry, 2018, 51, 1544-1565.	1.1	32
92	Light controlled cell-to-cell adhesion and chemical communication in minimal synthetic cells. Chemical Communications, 2019, 55, 9448-9451.	2.2	31
93	ELECTROFUSION OF MODEL LIPID MEMBRANES VIEWED WITH HIGH TEMPORAL RESOLUTION. Biophysical Reviews and Letters, 2006, 01, 387-400.	0.9	29
94	Inward and outward membrane tubes pulled from giant vesicles. Journal Physics D: Applied Physics, 2014, 47, 282001.	1.3	29
95	Modulating Vesicle Adhesion by Electric Fields. Biophysical Journal, 2016, 111, 1454-1464.	0.2	29
96	Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie, 2020, 132, 6006-6013.	1.6	29
97	Dynamic blue light-switchable protein patterns on giant unilamellar vesicles. Chemical Communications, 2018, 54, 948-951.	2.2	27
98	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577.	1.6	27
99	The ESCRT-III machinery participates in the production of extracellular vesicles and protein export during Plasmodium falciparum infection. PLoS Pathogens, 2021, 17, e1009455.	2.1	27
100	Polyampholyte-Dressed Micelles of Fluorinated and Hydrogenated Dodecanoic Acid. Langmuir, 2002, 18, 5099-5105.	1.6	26
101	Effect of cytochrome c on the phase behavior of charged multicomponent lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2036-2045.	1.4	26
102	Wetting, budding, and fusionâ€"morphological transitions of soft surfaces. Journal of Physics Condensed Matter, 2005, 17, S2885-S2902.	0.7	25
103	Directed Growth of Biomimetic Microcompartments. Advanced Biology, 2019, 3, e1800314.	3.0	25
104	Viscoelasticity of Poly(ethylene glycol) Solutions on Supported Lipid Bilayers via Quartz Crystal Microbalance with Dissipation. Macromolecules, 2015, 48, 1824-1831.	2.2	24
105	Control of the interaction between membranes or vesicles: Adhesion, fusion and release of dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 303, 89-96.	2.3	23
106	Resolving the Mechanisms of Soy Glycinin Self-Coacervation and Hollow-Condensate Formation. ACS Macro Letters, 2020, 9, 1844-1852.	2.3	23
107	Molar mass fractionation in aqueous two-phase polymer solutions of dextran and poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	22
108	Sucrose solutions alter the electric capacitance and dielectric permittivity of lipid bilayers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 557, 51-57.	2.3	22

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109	A needless but interesting controversy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
110	Implementing both short- and long-working-distance optical trappings into a commercial microscope. Review of Scientific Instruments, 2006, 77, 113703.	0.6	21
111	Mechanical Tension of Biomembranes Can Be Measured by Super Resolution (STED) Microscopy of Force-Induced Nanotubes. Nano Letters, 2020, 20, 3185-3191.	4.5	21
112	To Close or to Collapse: The Role of Charges on Membrane Stability upon Pore Formation. Advanced Science, 2021, 8, e2004068.	5.6	21
113	En route to dynamic life processes by SNARE-mediated fusion of polymer and hybrid membranes. Nature Communications, 2021, 12, 4972.	5.8	21
114	Micron-sized domains in quasi single-component giant vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1957-1964.	1.4	19
115	Compartments for Synthetic Cells: Osmotically Assisted Separation of Oil from Double Emulsions in a Microfluidic Chip. ChemBioChem, 2019, 20, 2604-2608.	1.3	19
116	Membrane permeability to water measured by microfluidic trapping of giant vesicles. Soft Matter, 2020, 16, 7359-7369.	1.2	19
117	Superelasticity of Plasmaâ€•and Synthetic Membranes Resulting from Coupling of Membrane Asymmetry, Curvature, and Lipid Sorting. Advanced Science, 2021, 8, e2102109.	5.6	19
118	Superâ€Resolution Imaging of Highly Curved Membrane Structures in Giant Vesicles Encapsulating Molecular Condensates. Advanced Materials, 2022, 34, e2106633.	11.1	19
119	Giant Vesicles Encapsulating Aqueous Two-Phase Systems: From Phase Diagrams to Membrane Shape Transformations. Frontiers in Chemistry, 2019, 7, 213.	1.8	18
120	Entropic Effects and Slow Kinetics Revealed in Titrations of D₂Oâ^'H₂O Solutions with Different D/H Ratios. Journal of Physical Chemistry B, 2010, 114, 5755-5763.	1.2	16
121	Giant Vesicles. Behavior Research Methods, 2012, 16, 1-50.	2.3	15
122	Macro- versus Microscopic View on the Electrokinetics of a Waterâ€“Membrane Interface. Langmuir, 2013, 29, 7939-7948.	1.6	15
123	Copper ATPase CopA from Escherichia coli: Quantitative Correlation between ATPase Activity and Vectorial Copper Transport. Journal of the American Chemical Society, 2017, 139, 4266-4269.	6.6	14
124	Phase Behavior of Charged Vesicles Under Symmetric and Asymmetric Solution Conditions Monitored with Fluorescence Microscopy. Journal of Visualized Experiments, 2017, , .	0.2	14
125	Poly(Ionic Liquid) Nanoparticles Selectively Disrupt Biomembranes. Advanced Science, 2019, 6, 1801602.	5.6	14
126	Introduction to remodeling of biomembranes. Soft Matter, 2021, 17, 214-221.	1.2	14

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127	PoET: automated approach for measuring pore edge tension in giant unilamellar vesicles. Bioinformatics Advances, 2021, 1, .	0.9	13
128	Increased efficiency of charge-mediated fusion in polymer/lipid hybrid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122468119.	3.3	13
129	Binding of Ion Pairs onto Polymer Gels via Dehydration Entropy:Â A New Mechanism for Ion Exchange. Macromolecules, 2006, 39, 6310-6312.	2.2	12
130	ACTIVE BIO-SYSTEMS: FROM SINGLE MOTOR MOLECULES TO COOPERATIVE CARGO TRANSPORT. Biophysical Reviews and Letters, 2009, 04, 77-137.	0.9	12
131	Electrochemical Detection of Single Microbeads Manipulated by Optical Tweezers in the Vicinity of Ultramicroelectrodes. Analytical Chemistry, 2013, 85, 8902-8909.	3.2	12
132	Shape transformations of giant unilamellar vesicles induced by ethanol and temperature variations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 149, 201-205.	2.3	11
133	Fusion and scission of membranes: Ubiquitous topological transformations in cells. Traffic, 2017, 18, 758-761.	1.3	11
134	Fusion assays for model membranes: a critical review. Advances in Biomembranes and Lipid Self-Assembly, 2019, , 229-270.	0.3	11
135	Selective Partitioning of (Biomacro)molecules in the Crowded Environment of Double-Hydrophilic Block Copolymers. Macromolecules, 2020, 53, 10179-10188.	2.2	10
136	Interaction of SNARE Mimetic Peptides with Lipid bilayers: Effects of Secondary Structure, Bilayer Composition and Lipid Anchoring. Scientific Reports, 2019, 9, 7708.	1.6	9
137	Electromechanical characterization of biomimetic membranes using electrodeformation of vesicles. Electrophoresis, 2021, 42, 2027-2032.	1.3	9
138	GM1 asymmetry in the membrane stabilizes pores. Biophysical Journal, 2022, 121, 3295-3302.	0.2	9
139	Electrodeformation, Electroporation, and Electrofusion of Giant Unilamellar Vesicles. , 2017, , 235-252.		8
140	Aggregation and Crosslinking of Poly(N,N â€dimethylacrylamide)â€b â€pullulan Double Hydrophilic Block Copolymers. Macromolecular Chemistry and Physics, 2020, 221, 2000053.	1.1	8
141	Spatiotemporal Measurement of Osmotic Pressures by FRET Imaging. Angewandte Chemie - International Edition, 2021, 60, 6488-6495.	7.2	8
142	ESCRT-III induces phase separation in model membranes prior to budding and causes invagination of the liquid-ordered phase. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183689.	1.4	7
143	Characterization of DAG Binding to TRPC Channels by Target-Dependent cisâ€“trans Isomerization of OptoDArG. Biomolecules, 2022, 12, 799.	1.8	7
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145	Controlled adhesion, membrane pinning and vesicle transport by Janus particles. Chemical Communications, 2022, 58, 3055-3058.	2.2	6
146	Magainin 2 and PGLa in Bacterial Membrane Mimics III: Membrane Fusion and Disruption. Biophysical Journal, 2022, , .	0.2	4
147	Electrodeformation, Electroporation, and Electrofusion of Giant Unilamellar Vesicles. , 2016, , 1-18.		3
148	Preparation methods for giant unilamellar vesicles. , 2019, , 3-20.		3
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150	Interactions of polycyclic aromatic hydrocarbons and their nitro derivatives with bilayer and monolayer models of fungal membranes. Journal of Molecular Liquids, 2022, 360, 119591.	2.3	3
151	Optical tweezers in interaction with an apertureless probe. Journal of Applied Physics, 2007, 102, 024915.	1.1	2
152	Electric Fields and Giant Vesicles. Biophysical Journal, 2010, 98, 77a.	0.2	2
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154	Optical Dynamometry to Study Phase Transitions in Lipid Membranes. Methods in Molecular Biology, 2007, 400, 227-236.	0.4	2
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158	Super Resolution Imaging of Highly Curved Membrane Structures in Giant Unilamellar Vesicles Encapsulating Polymer Solutions. Biophysical Journal, 2018, 114, 100a-101a.	0.2	1
159	Lipid Charge Increases the Bending Rigidity of Bilayer Membranes. Biophysical Journal, 2019, 116, 507a.	0.2	1
160	Frontispiz: Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie, 2020, 132, .	1.6	1
161	Spatiotemporal Measurement of Osmotic Pressures by FRET Imaging. Angewandte Chemie, 2021, 133, 6562-6569.	1.6	1
162	Mimicking Cell Pinocytosis: Lipid Vesicles Engulfment of Oil-in-Water Droplets. Biophysical Journal, 2018, 114, 94a-95a.	0.2	1

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163	HIV Fusion Peptides Significantly Soften Lipid Bilayers. Biophysical Journal, 2010, 98, 279a.	0.2	0
164	Electroporation Dynamics of Giant Vesicles with Encapsulated Gel and in the Presence of Salt or Detergents. Biophysical Journal, 2014, 106, 290a.	0.2	0
165	Vesicles in Electric Fields. Biophysical Journal, 2014, 106, 2a-3a.	0.2	0
166	Light-Induced Transformations in Lipid Membranes. Biophysical Journal, 2015, 108, 240a.	0.2	0
167	Variable Adhesion Strength for Giant Unilamellar Vesicles Controlled by External Electrostatic Potentials. Biophysical Journal, 2015, 108, 402a.	0.2	0
168	Protein-Free Membrane Fusion Probed by Single Giant Unilamellar Vesicle Imaging - the Role of Membrane Charge. Biophysical Journal, 2015, 108, 181a.	0.2	0
169	How GM1 Affects the Phase State and Mechanical Properties of Phospholipid Membranes. Biophysical Journal, 2015, 108, 18a.	0.2	0
170	GM1 Softens the Membrane, Induces Domains and Causes Spontaneous Tubulation in Giant Vesicles. Biophysical Journal, 2017, 112, 42a.	0.2	0
171	13. Giant vesicles: A biomimetic tool for assessing membrane material properties and interactions. , 2019, , 415-440.		0
172	Frontispiece: Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
173	Transient Electrodeformation of Giant Unilamellar Vesicles (GUVS) to Probe Membrane Viscosity. Biophysical Journal, 2020, 118, 322a.	0.2	0
174	Reconstitution of Respiratory Enzymes in PDMS-g-PEO Polymer and Polymer/Lipid Hybrid Vesicles. Biophysical Journal, 2020, 118, 131a.	0.2	0
175	Inhibition of Viral Fusion by Interferon-Induced Transmembrane Proteins. Biophysical Journal, 2021, 120, 2a.	0.2	0
176	Traffic by Small Teams of Molecular Motors. , 2009, , 695-700.		0
177	Studying Membrane Tubes with Positive and Negative Curvatures in Giant Vesicles. , 2014, , .		0
178	Femtoliter Injection of ESCRT-III Proteins into Adhered Giant Unilamellar Vesicles. Bio-protocol, 2022, 12, e4328.	0.2	0