

# Reinhard Lipowsky

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1637627/reinhard-lipowsky-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

314  
papers

19,799  
citations

74  
h-index

130  
g-index

330  
ext. papers

21,890  
ext. citations

5.7  
avg, IF

7.2  
L-index

#	Paper	IF	Citations
314	Liquid morphologies on structured surfaces: from microchannels to microchips. <i>Science</i> , <b>1999</b> , 283, 46-9	33.3	871
313	The conformation of membranes. <i>Nature</i> , <b>1991</b> , 349, 475-81	50.4	814
312	Shape transformations of vesicles: Phase diagram for spontaneous- curvature and bilayer-coupling models. <i>Physical Review A</i> , <b>1991</b> , 44, 1182-1202	2.6	699
311	Computer simulations of bilayer membranes: Self-assembly and interfacial tension. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 7397-7409	3.9	449
310	Mobility and Elasticity of Self-Assembled Membranes. <i>Physical Review Letters</i> , <b>1999</b> , 82, 221-224	7.4	421
309	Adhesion of vesicles. <i>Physical Review A</i> , <b>1990</b> , 42, 4768-4771	2.6	420
308	Tug-of-war as a cooperative mechanism for bidirectional cargo transport by molecular motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 4609-14	11.5	397
307	Tension-induced fusion of bilayer membranes and vesicles. <i>Nature Materials</i> , <b>2005</b> , 4, 225-8	27	336
306	Critical Surface Phenomena at First-Order Bulk Transitions. <i>Physical Review Letters</i> , <b>1982</b> , 49, 1575-1578	7.4	330
305	Equilibrium structure and lateral stress distribution of amphiphilic bilayers from dissipative particle dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 5048-5061	3.9	306
304	Wetting morphologies at microstructured surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 1848-52	11.5	305
303	Unbinding transitions of interacting membranes. <i>Physical Review Letters</i> , <b>1986</b> , 56, 2541-2544	7.4	300
302	Cooperative cargo transport by several molecular motors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 17284-9	11.5	297
301	Domain-induced budding of vesicles. <i>Physical Review Letters</i> , <b>1993</b> , 70, 2964-2967	7.4	277
300	Fluid Vesicles in Shear Flow. <i>Physical Review Letters</i> , <b>1996</b> , 77, 3685-3688	7.4	274
299	Contact Angles on Heterogeneous Surfaces: A New Look at Cassie's and Wenzel's Laws. <i>Langmuir</i> , <b>1998</b> , 14, 6772-6780	4	267
298	Shape transformations of vesicles with intramembrane domains. <i>Physical Review E</i> , <b>1996</b> , 53, 2670-2683	2.4	236

297	Effect of cholesterol on the rigidity of saturated and unsaturated membranes: fluctuation and electrodeformation analysis of giant vesicles. <i>Soft Matter</i> , <b>2010</b> , 6, 1472	3.6	232
296	A practical guide to giant vesicles. Probing the membrane nanoregime via optical microscopy. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, S1151-76	1.8	229
295	Morphological Transitions of Wetting Layers on Structured Surfaces. <i>Physical Review Letters</i> , <b>1998</b> , 80, 1920-1923	7.4	224
294	Random walks of cytoskeletal motors in open and closed compartments. <i>Physical Review Letters</i> , <b>2001</b> , 87, 108101	7.4	213
293	Sequential bottom-up assembly of mechanically stabilized synthetic cells by microfluidics. <i>Nature Materials</i> , <b>2018</b> , 17, 89-96	27	211
292	Budding of membranes induced by intramembrane domains. <i>Journal De Physique II</i> , <b>1992</b> , 2, 1825-1840		201
291	Time scales of membrane fusion revealed by direct imaging of vesicle fusion with high temporal resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 15841-6	11.5	195
290	Scaling regimes and functional renormalization for wetting transitions. <i>Physical Review B</i> , <b>1987</b> , 36, 2126-2141	3.5	181
289	Spontaneous tubulation of membranes and vesicles reveals membrane tension generated by spontaneous curvature. <i>Faraday Discussions</i> , <b>2013</b> , 161, 305-31; discussion 419-59	3.6	179
288	Budding dynamics of multicomponent membranes. <i>Physical Review Letters</i> , <b>2001</b> , 86, 3911-4	7.4	171
287	Giant vesicles in electric fields. <i>Soft Matter</i> , <b>2007</b> , 3, 817-827	3.6	169
286	Traffic of Molecular Motors Through Tube-Like Compartments. <i>Journal of Statistical Physics</i> , <b>2003</b> , 113, 233-268	1.5	167
285	Wetting morphologies on substrates with striped surface domains. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 4296-4306	2.5	161
284	Dissipative particle dynamics simulations of polymersomes. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 17708-14	3.4	160
283	Domain-induced budding of fluid membranes. <i>Biophysical Journal</i> , <b>1993</b> , 64, 1133-8	2.9	156
282	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13382-13392	16.4	155
281	Transport of beads by several kinesin motors. <i>Biophysical Journal</i> , <b>2008</b> , 94, 532-41	2.9	153
280	Pathway of membrane fusion with two tension-dependent energy barriers. <i>Physical Review Letters</i> , <b>2007</b> , 98, 218101	7.4	147

279	Wrapping of nanoparticles by membranes. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 208, 214-24	14.3	146
278	The fusion of membranes and vesicles: pathway and energy barriers from dissipative particle dynamics. <i>Biophysical Journal</i> , <b>2009</b> , 96, 2658-75	2.9	139
277	Adhesion of Vesicles and Membranes. <i>Molecular Crystals and Liquid Crystals</i> , <b>1991</b> , 202, 17-25		138
276	Kinesin's network of chemomechanical motor cycles. <i>Physical Review Letters</i> , <b>2007</b> , 98, 258102	7.4	135
275	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51,	3	133
274	Transient binding of dynein controls bidirectional long-range motility of early endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3618-23	11.5	124
273	Vesicles in electric fields: Some novel aspects of membrane behavior. <i>Soft Matter</i> , <b>2009</b> , 5, 3201	3.6	124
272	Membrane nanotubes induced by aqueous phase separation and stabilized by spontaneous curvature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 4731-6	11.5	120
271	Solvent-exposed tails as prestalk transition states for membrane fusion at low hydration. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 6710-8	16.4	118
270	Tubulation and aggregation of spherical nanoparticles adsorbed on vesicles. <i>Physical Review Letters</i> , <b>2012</b> , 109, 188102	7.4	115
269	Critical particle sizes for the engulfment of nanoparticles by membranes and vesicles with bilayer asymmetry. <i>ACS Nano</i> , <b>2015</b> , 9, 3704-20	16.7	113
268	The morphology of lipid membranes. <i>Current Opinion in Structural Biology</i> , <b>1995</b> , 5, 531-40	8.1	111
267	Individual actin filaments in a microfluidic flow reveal the mechanism of ATP hydrolysis and give insight into the properties of profilin. <i>PLoS Biology</i> , <b>2011</b> , 9, e1001161	9.7	105
266	Interactions of alkali metal chlorides with phosphatidylcholine vesicles. <i>Langmuir</i> , <b>2010</b> , 26, 18951-8	4	104
265	Domains in membranes and vesicles. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, S31-S45	1.8	103
264	Pattern formation during T-cell adhesion. <i>Biophysical Journal</i> , <b>2004</b> , 87, 3665-78	2.9	99
263	Complete unbinding and quasi-long-range order in lamellar phases. <i>Physical Review B</i> , <b>1987</b> , 35, 7004-7009		99
262	Spontaneous curvature of fluid vesicles induced by trans-bilayer sugar asymmetry. <i>European Biophysics Journal</i> , <b>1999</b> , 28, 174-178	1.9	95

261	Binding constants of membrane-anchored receptors and ligands depend strongly on the nanoscale roughness of membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 15283-8	11.5	92
260	Elastic Properties of Polymer-Decorated Membranes. <i>Journal De Physique II</i> , <b>1996</b> , 6, 1465-1481		91
259	Surface critical phenomena at first-order phase transitions. <i>Ferroelectrics</i> , <b>1987</b> , 73, 69-81	0.6	91
258	Wetting on cylinders and spheres. <i>Physical Review B</i> , <b>1987</b> , 36, 8725-8735	3.3	91
257	Molecular motor traffic: From biological nanomachines to macroscopic transport. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2006</b> , 372, 34-51	3.3	88
256	Wetting and dewetting of structured and imprinted surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2000</b> , 161, 3-22	5.1	87
255	Cell rigidity and shape override CD47's "self"-signaling in phagocytosis by hyperactivating myosin-II. <i>Blood</i> , <b>2015</b> , 125, 542-52	2.2	86
254	Concentration dependence of the interfacial tension for aqueous two-phase polymer solutions of dextran and polyethylene glycol. <i>Langmuir</i> , <b>2012</b> , 28, 3831-9	4	84
253	Tension-induced vesicle fusion: pathways and pore dynamics. <i>Soft Matter</i> , <b>2008</b> , 4, 1208-1214	3.6	84
252	Binding and unbinding of lipid membranes: A Monte Carlo study. <i>Physical Review Letters</i> , <b>1989</b> , 62, 1572-1575	1.7	84
251	Bidirectional transport by molecular motors: enhanced processivity and response to external forces. <i>Biophysical Journal</i> , <b>2010</b> , 98, 2610-8	2.9	83
250	Diffusion-limited growth of wetting layers. <i>Physical Review Letters</i> , <b>1986</b> , 57, 353-356	7.4	83
249	Adhesion of membranes via receptor-ligand complexes: Domain formation, binding cooperativity, and active processes. <i>Soft Matter</i> , <b>2009</b> , 5, 3213	3.6	81
248	Improved dissipative particle dynamics simulations of lipid bilayers. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 015101	3.9	81
247	Life is motion—multiscale motility of molecular motors. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 352, 53-112	3.3	81
246	Morphological wetting transitions at chemically structured surfaces. <i>Current Opinion in Colloid and Interface Science</i> , <b>2001</b> , 6, 40-48	7.6	80
245	Enhanced ordering of interacting filaments by molecular motors. <i>Physical Review Letters</i> , <b>2006</b> , 96, 258103	1.3	78
244	Morphological transitions of vesicles induced by alternating electric fields. <i>Biophysical Journal</i> , <b>2008</b> , 95, L19-21	2.9	77

243	Adhesion of Membranes via Anchored Stickers. <i>Physical Review Letters</i> , <b>1996</b> , 77, 1652-1655	7.4	77
242	Wetting in random systems. <i>Physical Review Letters</i> , <b>1986</b> , 56, 472-475	7.4	75
241	Phase diagram and tie-line determination for the ternary mixture DOPC/eSM/cholesterol. <i>Biophysical Journal</i> , <b>2013</b> , 104, 1456-64	2.9	74
240	Spontaneous curvature of bilayer membranes from molecular simulations: asymmetric lipid densities and asymmetric adsorption. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 054101	3.9	72
239	Driven Ratchets with Disordered Tracks. <i>Physical Review Letters</i> , <b>1997</b> , 79, 2895-2898	7.4	70
238	Multicomponent order parameter for surface melting. <i>Physical Review Letters</i> , <b>1989</b> , 62, 913-916	7.4	70
237	Controlled division of cell-sized vesicles by low densities of membrane-bound proteins. <i>Nature Communications</i> , <b>2020</b> , 11, 905	17.4	68
236	Adhesion of membranes: a theoretical perspective. <i>Langmuir</i> , <b>1991</b> , 7, 1867-1873	4	68
235	Shape fluctuations of polymerized or solidlike membranes. <i>Physical Review Letters</i> , <b>1990</b> , 65, 2893-2896	7.4	66
234	Coupling of bending and stretching deformations in vesicle membranes. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 208, 14-24	14.3	63
233	Adhesion-induced phase behavior of multicomponent membranes. <i>Physical Review E</i> , <b>2001</b> , 64, 011903	2.4	62
232	Dynamic pattern evolution on scale-free networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 10052-7	11.5	60
231	Patterns of Flexible Nanotubes Formed by Liquid-Ordered and Liquid-Disordered Membranes. <i>ACS Nano</i> , <b>2016</b> , 10, 463-74	16.7	59
230	Unusual bifurcation of renormalization-group fixed points for interfacial transitions. <i>Physical Review Letters</i> , <b>1986</b> , 57, 2411-2414	7.4	59
229	Bacterial twitching motility is coordinated by a two-dimensional tug-of-war with directional memory. <i>Nature Communications</i> , <b>2014</b> , 5, 3759	17.4	58
228	Vesicles with multiple membrane domains. <i>Soft Matter</i> , <b>2011</b> , 7, 6092	3.6	58
227	Behavior of giant vesicles with anchored DNA molecules. <i>Biophysical Journal</i> , <b>2007</b> , 92, 4356-68	2.9	58
226	The computational route from bilayer membranes to vesicle fusion. <i>Journal of Physics Condensed Matter</i> , <b>2006</b> , 18, S1191-219	1.8	57

225	Cooperative wrapping of nanoparticles by membrane tubes. <i>Soft Matter</i> , <b>2014</b> , 10, 3570-7	3.6	56
224	Distinct transport regimes for two elastically coupled molecular motors. <i>Physical Review Letters</i> , <b>2012</b> , 108, 208101	7.4	56
223	Transition from complete to partial wetting within membrane compartments. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12252-3	16.4	56
222	Network Brownian Motion: A New Method to Measure Vertex-Vertex Proximity and to Identify Communities and Subcommunities. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 1062-1069	0.9	56
221	Binding cooperativity of membrane adhesion receptors. <i>Soft Matter</i> , <b>2009</b> , 5, 3354	3.6	55
220	Charged giant unilamellar vesicles prepared by electroformation exhibit nanotubes and transbilayer lipid asymmetry. <i>Scientific Reports</i> , <b>2018</b> , 8, 11838	4.9	54
219	Presynaptic Biogenesis Requires Axonal Transport of Lysosome-Related Vesicles. <i>Neuron</i> , <b>2018</b> , 99, 1216-1232.e7	6.3	54
218	The glycolipid GM1 reshapes asymmetric biomembranes and giant vesicles by curvature generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5756-5761	11.5	53
217	Autophagosome closure requires membrane scission. <i>Autophagy</i> , <b>2015</b> , 11, 2134-2137	10.2	52
216	Self-organized density patterns of molecular motors in arrays of cytoskeletal filaments. <i>Biophysical Journal</i> , <b>2005</b> , 88, 3118-32	2.9	52
215	Stability of spherical vesicles in electric fields. <i>Langmuir</i> , <b>2010</b> , 26, 12390-407	4	51
214	Nanoparticle formation in giant vesicles: synthesis in biomimetic compartments. <i>Small</i> , <b>2009</b> , 5, 2033-7	11	51
213	Motility States of Molecular Motors Engaged in a Stochastic Tug-of-War. <i>Journal of Statistical Physics</i> , <b>2008</b> , 133, 1059-1081	1.5	51
212	The role of membrane curvature for the wrapping of nanoparticles. <i>Soft Matter</i> , <b>2016</b> , 12, 581-7	3.6	50
211	Domains and rafts in membranes - hidden dimensions of selforganization. <i>Journal of Biological Physics</i> , <b>2002</b> , 28, 195-210	1.6	50
210	Conformal degeneracy and conformal diffusion of vesicles. <i>Physical Review Letters</i> , <b>1993</b> , 71, 452-455	7.4	49
209	Interface roughening in two-dimensional quasicrystals. <i>Physical Review Letters</i> , <b>1987</b> , 59, 1679-1682	7.4	49
208	Flexible membranes with anchored polymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1997</b> , 128, 255-264	5.1	48

207	Membrane curvature induced by polymers and colloids. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1998</b> , 249, 536-543	3-3	47
206	Universal aspects of the chemomechanical coupling for molecular motors. <i>Physical Review Letters</i> , <b>2000</b> , 85, 4401-4	7-4	46
205	Remodeling of membrane compartments: some consequences of membrane fluidity. <i>Biological Chemistry</i> , <b>2014</b> , 395, 253-74	4-5	45
204	Chemomechanical Coupling of Molecular Motors: Thermodynamics, Network Representations, and Balance Conditions. <i>Journal of Statistical Physics</i> , <b>2007</b> , 130, 39-67	1-5	45
203	Melting at grain boundaries and surfaces. <i>Physical Review Letters</i> , <b>1986</b> , 57, 2876	7-4	45
202	Discontinuous unbinding transitions of filament bundles. <i>Physical Review Letters</i> , <b>2005</b> , 95, 038102	7-4	44
201	Renormalization of hydration forces by collective protrusion modes. <i>Biophysical Chemistry</i> , <b>1994</b> , 49, 27-37	3-5	44
200	Membrane morphology is actively transformed by covalent binding of the protein Atg8 to PE-lipids. <i>PLoS ONE</i> , <b>2014</b> , 9, e115357	3-7	44
199	Membrane Nanotubes Increase the Robustness of Giant Vesicles. <i>ACS Nano</i> , <b>2018</b> , 12, 4478-4485	16-7	43
198	Stochastic simulations of cargo transport by processive molecular motors. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 245107	3-9	43
197	Vortex behavior in high-Tc superconductors with disorder. <i>Physical Review Letters</i> , <b>1988</b> , 61, 2508	7-4	43
196	Liquid Bridges in Chemically Structured Slit Pores. <i>Langmuir</i> , <b>2001</b> , 17, 3390-3399	4	41
195	Unbinding of symmetric and asymmetric stacks of membranes. <i>Physical Review Letters</i> , <b>1993</b> , 71, 3596-3599	7-4	41
194	Stretched-exponential relaxation of birefringence in a critical binary mixture. <i>Physical Review B</i> , <b>1988</b> , 38, 7223-7226	3-3	41
193	Unbinding transitions and phase separation of multicomponent membranes. <i>Physical Review E</i> , <b>2000</b> , 62, R45-8	2-4	40
192	Binding constants of membrane-anchored receptors and ligands: A general theory corroborated by Monte Carlo simulations. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 243136	3-9	39
191	Intrinsic contact angle of aqueous phases at membranes and vesicles. <i>Physical Review Letters</i> , <b>2009</b> , 103, 238103	7-4	39
190	Active diffusion of motor particles. <i>Physical Review Letters</i> , <b>2005</b> , 95, 268102	7-4	39



189	Curvature of double-membrane organelles generated by changes in membrane size and composition. <i>PLoS ONE</i> , <b>2012</b> , 7, e32753	3.7	39
188	Molecular mechanics of coiled coils loaded in the shear geometry. <i>Chemical Science</i> , <b>2018</b> , 9, 4610-4621	9.4	38
187	Importance of polar solvation and configurational entropy for design of antiretroviral drugs targeting HIV-1 protease. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 5793-805	3.4	37
186	Stable patterns of membrane domains at corrugated substrates. <i>Physical Review Letters</i> , <b>2008</b> , 100, 098103	1.03	37
185	Line tension effects for liquid droplets on circular surface domains. <i>Langmuir</i> , <b>2006</b> , 22, 11041-59	4	37
184	Random walks of molecular motors arising from diffusional encounters with immobilized filaments. <i>Physical Review E</i> , <b>2004</b> , 69, 061911	2.4	37
183	Droplets, bubbles, and vesicles at chemically structured surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S537-S558	1.8	37
182	Effects of the chemomechanical stepping cycle on the traffic of molecular motors. <i>Physical Review E</i> , <b>2008</b> , 78, 041909	2.4	36
181	Binding of Polymers to Calcite Crystals in Water: Characterization by Isothermal Titration Calorimetry. <i>Langmuir</i> , <b>2003</b> , 19, 6097-6103	4	36
180	Stability of liquid channels or filaments in the presence of line tension. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, 2349-2364	1.8	36
179	Effect of ribosome shielding on mRNA stability. <i>Physical Biology</i> , <b>2013</b> , 10, 046008	3	34
178	Deducing the kinetics of protein synthesis in vivo from the transition rates measured in vitro. <i>PLoS Computational Biology</i> , <b>2014</b> , 10, e1003909	5	34
177	Lipid membranes in contact with aqueous phases of polymer solutions. <i>Soft Matter</i> , <b>2012</b> , 8, 6409	3.6	34
176	Asymptotic properties of degree-correlated scale-free networks. <i>Physical Review E</i> , <b>2010</b> , 81, 046103	2.4	33
175	Equilibrium morphologies and effective spring constants of capillary bridges. <i>Langmuir</i> , <b>2010</b> , 26, 18734-41	4.1	33
174	Membrane fluctuations and acidosis regulate cooperative binding of 'marker of self' protein CD47 with the macrophage checkpoint receptor SIRP $\beta$ . <i>Journal of Cell Science</i> , <b>2018</b> , 132,	5.3	33
173	Bilayer Membranes with Frequent Flip-Flops Have Tensionless Leaflets. <i>Nano Letters</i> , <b>2019</b> , 19, 5011-5016	1.5	32
172	Complex degradation processes lead to non-exponential decay patterns and age-dependent decay rates of messenger RNA. <i>PLoS ONE</i> , <b>2013</b> , 8, e55442	3.7	32

171	Importance of polar solvation for cross-reactivity of antibody and its variants with steroids. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7661-9	3.4	32
170	Cooperative behavior of molecular motors: Cargo transport and traffic phenomena. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 649-661	3	32
169	Membrane flow patterns in multicomponent giant vesicles induced by alternating electric fields. Electronic supplementary information (ESI) available: Vesicle preparation procedure, numerical calculations and confocal microscopy movies of domain motion. See DOI: 10.1039/b811876k. Click here for additional data file. Click here for additional data file. Click here for additional data file. Click here for additional data file. Click here for additional data file.	3.6	32
168	Novel method for measuring the adhesion energy of vesicles. <i>Langmuir</i> , <b>2007</b> , 23, 5423-9	4	32
167	From bunches of membranes to bundles of strings. <i>European Physical Journal B</i> , <b>1995</b> , 97, 193-203	1.2	32
166	Renormalized Interactions of Interfaces, Membranes and Polymers. <i>Physica Scripta</i> , <b>1989</b> , T29, 259-264	2.6	32
165	The Conserved ESCRT-III Machinery Participates in the Phagocytosis of. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2018</b> , 8, 53	5.9	31
164	Protein Synthesis in E. coli: Dependence of Codon-Specific Elongation on tRNA Concentration and Codon Usage. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134994	3.7	31
163	Intermittent depolymerization of actin filaments is caused by photo-induced dimerization of actin protomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 10769-74	11.5	31
162	Adhesive Nanoparticles as Local Probes of Membrane Curvature. <i>Nano Letters</i> , <b>2015</b> , 15, 7168-73	11.5	30
161	Chemomechanical coupling and motor cycles of myosin V. <i>Biophysical Journal</i> , <b>2011</b> , 100, 1747-55	2.9	30
160	Wetting-induced budding of vesicles in contact with several aqueous phases. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 1819-23	3.4	29
159	Mechanical compressibility of the glycosylphosphatidylinositol (GPI) anchor backbone governed by independent glycosidic linkages. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 18964-72	16.4	29
158	Stretching of buckled filaments by thermal fluctuations. <i>Physical Review E</i> , <b>2007</b> , 76, 061914	2.4	29
157	Actin polymerization and depolymerization coupled to cooperative hydrolysis. <i>Physical Review Letters</i> , <b>2009</b> , 103, 048102	7.4	28
156	Polymorphism of vesicles with multi-domain patterns. <i>Soft Matter</i> , <b>2009</b> , 5, 3303	3.6	28
155	Asymmetric simple exclusion processes with diffusive bottlenecks. <i>Physical Review E</i> , <b>2004</b> , 70, 066104	2.4	28
154	Parabolic renormalization-group flow for interfaces and membranes. <i>Physical Review Letters</i> , <b>1989</b> , 62, 704-707	7.4	28

153	Equilibrium crystal shapes of ideal and random quasicrystals. <i>Physical Review Letters</i> , <b>1988</b> , 60, 2394-2397.	4	28
152	Asymmetric Ionic Conditions Generate Large Membrane Curvatures. <i>Nano Letters</i> , <b>2018</b> , 18, 7816-7821	11.5	28
151	Molecular motor traffic in a half-open tube. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S3839-50	1.8	27
150	Nucleation through a Double Barrier on a Chemically Patterned Substrate. <i>Langmuir</i> , <b>2004</b> , 20, 1986-1996	4	26
149	Solution Asymmetry and Salt Expand Fluid-Fluid Coexistence Regions of Charged Membranes. <i>Biophysical Journal</i> , <b>2016</b> , 110, 2581-2584	2.9	25
148	Molecular Motor Cycles: From Ratchets to Networks. <i>Journal of Statistical Physics</i> , <b>2003</b> , 110, 1141-1167	1.5	25
147	Structured Surfaces and Morphological Wetting Transitions. <i>Journal of Materials Science</i> , <b>2001</b> , 9, 105-115		25
146	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13566-13577	3.6	25
145	Area Increase and Budding in Giant Vesicles Triggered by Light: Behind the Scene. <i>Advanced Science</i> , <b>2018</b> , 5, 1800432	13.6	24
144	Line tension and stability of domains in cell-adhesion zones mediated by long and short receptor-ligand complexes. <i>PLoS ONE</i> , <b>2011</b> , 6, e23284	3.7	24
143	Droplet-induced budding transitions of membranes. <i>Soft Matter</i> , <b>2011</b> , 7, 6914	3.6	24
142	Adhesion of membranes with active stickers. <i>Physical Review Letters</i> , <b>2006</b> , 96, 048101	7.4	24
141	Modulating Vesicle Adhesion by Electric Fields. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1454-1464	2.9	24
140	Uniform and Janus-like nanoparticles in contact with vesicles: energy landscapes and curvature-induced forces. <i>Soft Matter</i> , <b>2017</b> , 13, 2155-2173	3.6	23
139	ELECTROFUSION OF MODEL LIPID MEMBRANES VIEWED WITH HIGH TEMPORAL RESOLUTION. <i>Biophysical Reviews and Letters</i> , <b>2006</b> , 01, 387-400	1.2	23
138	Temperature dependence of vesicle adhesion. <i>Physical Review E</i> , <b>2005</b> , 71, 011903	2.4	23
137	Effect of cytochrome c on the phase behavior of charged multicomponent lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2014</b> , 1838, 2036-45	3.8	22
136	Perforated Wetting Layers from Periodic Patterns of Lyophobic Surface Domains. <i>Langmuir</i> , <b>2001</b> , 17, 7814-7822	4	22

135	Unbinding Transitions of Interacting Membranes. <i>Physical Review Letters</i> , <b>1987</b> , 59, 1983-1983	7.4	22
134	Giant Vesicles Exposed to Aqueous Two-Phase Systems: Membrane Wetting, Budding Processes, and Spontaneous Tubulation. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1600451	4.6	21
133	Cooperative slowdown of water rotation near densely charged ions is intense but short-ranged. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10556-66	3.4	21
132	Energy Conversion by Molecular Motors Coupled to Nucleotide Hydrolysis. <i>Journal of Statistical Physics</i> , <b>2009</b> , 135, 951-975	1.5	21
131	Free fluid vesicles are not exactly spherical. <i>Physical Review E</i> , <b>2005</b> , 71, 051602	2.4	21
130	Surface melting away from equilibrium. <i>Physical Review B</i> , <b>1991</b> , 43, 3507-3513	3.3	21
129	Adsorption transitions of polymers and crumpled membranes. <i>Physical Review A</i> , <b>1989</b> , 40, 2078-2081	2.6	21
128	Absence of first-order unbinding transitions of fluid and polymerized membranes. <i>Physical Review A</i> , <b>1990</b> , 41, 4574-4577	2.6	21
127	Simple sugars shape giant vesicles into multispheres with many membrane necks. <i>Soft Matter</i> , <b>2020</b> , 16, 1246-1258	3.6	21
126	External forces influence the elastic coupling effects during cargo transport by molecular motors. <i>Physical Review E</i> , <b>2015</b> , 91, 022701	2.4	20
125	Viscoelasticity of Poly(ethylene glycol) Solutions on Supported Lipid Bilayers via Quartz Crystal Microbalance with Dissipation. <i>Macromolecules</i> , <b>2015</b> , 48, 1824-1831	5.5	20
124	Binding equilibrium and kinetics of membrane-anchored receptors and ligands in cell adhesion: Insights from computational model systems and theory. <i>Cell Adhesion and Migration</i> , <b>2016</b> , 10, 576-589	3.2	20
123	Co-operative transport by molecular motors. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1211-5	5.1	20
122	Discontinuous unbinding transitions of flexible membranes. <i>Journal De Physique II</i> , <b>1994</b> , 4, 1755-1762		20
121	Binding kinetics of membrane-anchored receptors and ligands: Molecular dynamics simulations and theory. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 243137	3.9	19
120	Domain formation in cholesterol/phospholipid membranes exposed to adhesive surfaces or environments. <i>Soft Matter</i> , <b>2013</b> , 9, 8438	3.6	19
119	Traffic by multiple species of molecular motors. <i>Physical Review E</i> , <b>2009</b> , 80, 041928	2.4	19
118	Movements of molecular motors: Ratchets, random walks and traffic phenomena. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2005</b> , 29, 380-389	3	19

117	Wetting, budding, and fusion morphological transitions of soft surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2005</b> , 17, S2885-S2902	1.8	19
116	Solvent-shared pairs of densely charged ions induce intense but short-range supra-additive slowdown of water rotation. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1918-30	3.6	18
115	Lipids with bulky head groups generate large membrane curvatures by small compositional asymmetries. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 084901	3.9	18
114	Transport by Molecular Motors in the Presence of Static Defects. <i>Journal of Statistical Physics</i> , <b>2009</b> , 135, 241-260	1.5	18
113	Length-dependent translation of messenger RNA by ribosomes. <i>Physical Review E</i> , <b>2011</b> , 83, 042903	2.4	18
112	Extreme swelling of lamellar phases. <i>Physical Review Letters</i> , <b>1987</b> , 58, 1796	7.4	18
111	Phase diagrams and shape transformations of toroidal vesicles. <i>Journal De Physique II</i> , <b>1993</b> , 3, 1681-1705		18
110	Effect of tension and curvature on the chemical potential of lipids in lipid aggregates. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 876-81	3.6	17
109	Morphological wetting transitions at ring-shaped surface domains. <i>Langmuir</i> , <b>2010</b> , 26, 11878-85	4	17
108	VISUALIZING SOFT MATTER: MESOSCOPIC SIMULATIONS OF MEMBRANES, VESICLES AND NANOPARTICLES. <i>Biophysical Reviews and Letters</i> , <b>2007</b> , 02, 33-55	1.2	17
107	Membrane curvature generated by asymmetric depletion layers of ions, small molecules, and nanoparticles. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 074117	3.9	17
106	Self-assembly of actin monomers into long filaments: Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 015102	3.9	16
105	Self-assembling network and bundle structures in systems of rods and crosslinkers – A Monte Carlo study. <i>Soft Matter</i> , <b>2009</b> , 5, 1504	3.6	16
104	Conformational diversity of the fibrillogenic fusion peptide B18 in different environments from molecular dynamics simulations. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 4161-70	3.4	16
103	Molar mass fractionation in aqueous two-phase polymer solutions of dextran and poly(ethylene glycol). <i>Journal of Chromatography A</i> , <b>2016</b> , 1452, 107-15	4.5	16
102	Elastic Coupling Effects in Cooperative Transport by a Pair of Molecular Motors. <i>Cellular and Molecular Bioengineering</i> , <b>2013</b> , 6, 48-64	3.9	15
101	Critical roughening of interfaces: A new class of renormalizable field theories. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1131-1134	7.4	15
100	Universality classes for wetting in two-dimensional random-bond systems. <i>Physical Review B</i> , <b>1991</b> , 44, 13042-13052	3.3	15

99	Domes and cones: Adhesion-induced fission of membranes by ESCRT proteins. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006422	5	15
98	Directed Growth of Biomimetic Microcompartments. <i>Advanced Biology</i> , <b>2019</b> , 3, e1800314	3.5	14
97	Stabilization of membrane necks by adhesive particles, substrate surfaces, and constriction forces. <i>Soft Matter</i> , <b>2016</b> , 12, 8155-8166	3.6	14
96	Conformational diversity of O-antigen polysaccharides of the Gram-negative bacterium <i>Shigella flexneri</i> serotype Y. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2523-34	3.4	14
95	Network Complexity and Parametric Simplicity for Cargo Transport by Two Molecular Motors. <i>Journal of Statistical Physics</i> , <b>2013</b> , 150, 205-234	1.5	14
94	Local Adhesion of Membranes to Striped Surface Domains. <i>Langmuir</i> , <b>2000</b> , 16, 9338-9346	4	14
93	Translation by Ribosomes with mRNA Degradation: Exclusion Processes on Aging Tracks. <i>Journal of Statistical Physics</i> , <b>2011</b> , 145, 1385-1404	1.5	13
92	Chapter 4 Membrane Adhesion and Domain Formation. <i>Behavior Research Methods</i> , <b>2006</b> , 63-127	6.1	13
91	Duality mapping and unbinding transitions of semiflexible and directed polymers. <i>Journal of Physics A</i> , <b>2005</b> , 38, L155-L161		13
90	Fluctuations and stability of polymerized vesicles. <i>Journal De Physique II</i> , <b>1992</b> , 2, 1563-1575		13
89	Photosensitive Peptidomimetic for Light-Controlled, Reversible DNA Compaction. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1959-68	6.9	13
88	Nanodroplets at Membranes Create Tight-Lipped Membrane Necks via Negative Line Tension. <i>ACS Nano</i> , <b>2018</b> , 12, 12424-12435	16.7	13
87	Modelling semiflexible polymers: shape analysis, buckling instabilities, and force generation. <i>Soft Matter</i> , <b>2010</b> , 6, 5764	3.6	12
86	Dissipative particle dynamics of tension-induced membrane fusion. <i>Molecular Simulation</i> , <b>2009</b> , 35, 554-560		12
85	Response of Membranes and Vesicles to Capillary Forces Arising from Aqueous Two-Phase Systems and Water-in-Water Droplets. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 3572-3586	3.4	11
84	Treadmilling of actin filaments via Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 155105	3.9	11
83	Fusion-relevant changes in lipid shape of hydrated cholesterol hemisuccinate induced by pH and counterion species. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 14941-6	3.4	11
82	ACTIVE BIO-SYSTEMS: FROM SINGLE MOTOR MOLECULES TO COOPERATIVE CARGO TRANSPORT. <i>Biophysical Reviews and Letters</i> , <b>2009</b> , 04, 77-137	1.2	11

81	Adhesion of membranes via switchable molecules. <i>Physical Review E</i> , <b>2006</b> , 73, 061908	2.4	11
80	The influence of non-anchored polymers on the curvature of vesicles. <i>Molecular Physics</i> , <b>2005</b> , 103, 3169-3183	3.13	11
79	Novel Low-Density Structure for Hard Rods with Adhesive End Groups. <i>Macromolecules</i> , <b>2006</b> , 39, 7138-7143	3.9	11
78	Statistical physics of flexible membranes. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1993</b> , 194, 114-127	3.3	11
77	Interfacial phase transitions of microemulsions. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , <b>1986</b> , 82, 1739		11
76	Discontinuous Phase Transitions of Membranes: a Monte Carlo Study. <i>Journal De Physique II</i> , <b>1996</b> , 6, 255-270		11
75	Spherical Nanovesicles Transform into a Multitude of Nonspherical Shapes. <i>Nano Letters</i> , <b>2019</b> , 19, 7703-7711	3.1	10
74	Allosteric control of kinesin's motor domain by tubulin: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 6189-98	3.6	10
73	Bifurcation of velocity distributions in cooperative transport of filaments by fast and slow motors. <i>Biophysical Journal</i> , <b>2013</b> , 104, 666-76	2.9	10
72	Impact of Slip Cycles on the Operation Modes and Efficiency of Molecular Motors. <i>Journal of Statistical Physics</i> , <b>2010</b> , 141, 1-16	1.5	10
71	Local contacts of membranes and strings. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1997</b> , 244, 164-175	3.3	10
70	Critical behavior of three interacting strings. <i>Physical Review E</i> , <b>1993</b> , 47, 3039-3042	2.4	10
69	Trimeric coiled coils expand the range of strength, toughness and dynamics of coiled coil motifs under shear. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29105-29115	3.6	10
68	En route to dynamic life processes by SNARE-mediated fusion of polymer and hybrid membranes. <i>Nature Communications</i> , <b>2021</b> , 12, 4972	17.4	10
67	Molecular Motors: Cooperative Phenomena of Multiple Molecular Motors <b>2015</b> , 27-61		10
66	Optimizing the dynamics of protein expression. <i>Scientific Reports</i> , <b>2019</b> , 9, 7511	4.9	9
65	Giant Vesicles Encapsulating Aqueous Two-Phase Systems: From Phase Diagrams to Membrane Shape Transformations. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 213	5	9
64	Molecular motors and nonuniform ratchets. <i>European Biophysics Journal</i> , <b>2000</b> , 29, 542-8	1.9	9

63	Delocalization transitions of low-dimensional manifolds. <i>Physical Review A</i> , <b>1992</b> , 45, 8644-8656	2.6	9
62	Wetting in a two-dimensional random-bond Ising model. <i>Physical Review B</i> , <b>1989</b> , 39, 2632-2639	3.3	9
61	Active shape oscillations of giant vesicles with cyclic closure and opening of membrane necks. <i>Soft Matter</i> , <b>2021</b> , 17, 319-330	3.6	9
60	Adhesion-induced phase behavior of two-component membranes and vesicles. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 2203-29	6.3	8
59	Interaction of SNARE Mimetic Peptides with Lipid bilayers: Effects of Secondary Structure, Bilayer Composition and Lipid Anchoring. <i>Scientific Reports</i> , <b>2019</b> , 9, 7708	4.9	7
58	Mechanical Tension of Biomembranes Can Be Measured by Super Resolution (STED) Microscopy of Force-Induced Nanotubes. <i>Nano Letters</i> , <b>2020</b> , 20, 3185-3191	11.5	7
57	Molecular Motors and Stochastic Models <b>2000</b> , 21-31		7
56	Complete wetting or near-critical adsorption?. <i>Physical Review Letters</i> , <b>1988</b> , 60, 242	7.4	7
55	On the theory of turbulence: A non eulorian renormalized expansion. <i>Zeitschrift für Physik B Condensed Matter and Quanta</i> , <b>1979</b> , 33, 223-231		7
54	Buckling, Bundling, and Pattern Formation: From Semi-Flexible Polymers to Assemblies of Interacting Filaments. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2006</b> , 3, 898-911	0.3	7
53	Dwell time distributions of the molecular motor myosin V. <i>PLoS ONE</i> , <b>2013</b> , 8, e55366	3.7	7
52	Three interacting strings in two dimensions: non-universal and multiple unbinding transitions. <i>Journal De Physique, I</i> , <b>1994</b> , 4, 47-75		7
51	Force sharing and force generation by two teams of elastically coupled molecular motors. <i>Scientific Reports</i> , <b>2019</b> , 9, 454	4.9	6
50	Morphological transitions of liquid droplets on circular surface domains. <i>Langmuir</i> , <b>2009</b> , 25, 13493-502	4	6
49	Critical behavior of interacting manifolds. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1991</b> , 177, 182-188	3.3	6
48	Collective Force Generation by Molecular Motors Is Determined by Strain-Induced Unbinding. <i>Nano Letters</i> , <b>2020</b> , 20, 669-676	11.5	6
47	Programming multi-protein assembly by gene-brush patterns and two-dimensional compartment geometry. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 783-791	28.7	6
46	Tug-of-war between two elastically coupled molecular motors: a case study on force generation and force balance. <i>Soft Matter</i> , <b>2017</b> , 13, 328-344	3.6	5



45	Force-Dependent Unbinding Rate of Molecular Motors from Stationary Optical Trap Data. <i>Nano Letters</i> , <b>2019</b> , 19, 2598-2602	11.5	5
44	Standard Gibbs energies of formation and equilibrium constants from ab-initio calculations: Covalent dimerization of NO <sub>2</sub> and synthesis of NH <sub>3</sub> . <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 62, 211-221	2.9	5
43	Semiflexible polymer rings on topographically and chemically structured surfaces. <i>Soft Matter</i> , <b>2010</b> , 6, 5461	3.6	5
42	Lipowsky et al. reply. <i>Physical Review Letters</i> , <b>1990</b> , 64, 2105	7.4	5
41	Budding and Fission of Nanovesicles Induced by Membrane Adsorption of Small Solutes. <i>ACS Nano</i> , <b>2021</b> , 15, 7237-7248	16.7	5
40	Critical motor number for fractional steps of cytoskeletal filaments in gliding assays. <i>PLoS ONE</i> , <b>2012</b> , 7, e43219	3.7	4
39	Sequences of phase transitions in Ising models on correlated networks. <i>Physical Review E</i> , <b>2011</b> , 83, 061129	12.9	4
38	Walks of molecular motors interacting with immobilized filaments. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2005</b> , 350, 122-130	3.3	4
37	Preface to Volume 1A from Cells to Vesicles: Introduction and Overview. <i>Handbook of Biological Physics</i> , <b>1995</b> , ix-x		4
36	Lipowsky and Girardet reply. <i>Physical Review Letters</i> , <b>1991</b> , 67, 1670	7.4	4
35	Remodeling of Membrane Shape and Topology by Curvature Elasticity and Membrane Tension. <i>Advanced Biology</i> , <b>2021</b> , e2101020		4
34	Understanding giant vesicles: A theoretical perspective <b>2019</b> , 73-168		4
33	Super-Resolution Imaging of Highly Curved Membrane Structures in Giant Vesicles Encapsulating Molecular Condensates. <i>Advanced Materials</i> , <b>2021</b> , e2106633	24	4
32	Unfolding mechanism and free energy landscape of single, stable, alpha helices at low pull speeds. <i>Soft Matter</i> , <b>2020</b> , 16, 9917-9928	3.6	4
31	Decomposition of time-dependent fluorescence signals reveals codon-specific kinetics of protein synthesis. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, e130	20.1	3
30	FILAMENT ORDERING AND CLUSTERING BY MOLECULAR MOTORS IN MOTILITY ASSAYS. <i>Biophysical Reviews and Letters</i> , <b>2006</b> , 01, 363-374	1.2	3
29	COOPERATIVE TRANSPORT BY SMALL TEAMS OF MOLECULAR MOTORS. <i>Biophysical Reviews and Letters</i> , <b>2006</b> , 01, 353-361	1.2	3
28	Activity patterns on random scale-free networks: global dynamics arising from local majority rules. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2007</b> , 2007, P01009-P01009	1.9	3

27	From membranes to membrane machines <b>1999</b> , 1-23		3
26	Multispherical shapes of vesicles highlight the curvature elasticity of biomembranes.. <i>Advances in Colloid and Interface Science</i> , <b>2022</b> , 301, 102613	14.3	3
25	Traffic of Molecular Motors <b>2007</b> , 251-261		3
24	Understanding Membranes and Vesicles: A Personal Recollection of the Last Two Decades <b>2018</b> , 3-44		3
23	On phosphate release in actin filaments. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2778-9	2.9	2
22	Vesicles And Biomembranes <b>2003</b> ,		2
21	Cooperative Behaviour of Semiflexible Polymers and Filaments <b>2007</b> , 239-249		2
20	Understanding and controlling the morphological complexity of biomembranes. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , <b>2019</b> , 105-157	1	2
19	A molecular dynamics model for glycosylphosphatidyl-inositol anchors: "flop down" or "lollipop"?. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 29314-29324	3.6	2
18	Structural variability and concerted motions of the T cell receptor - CD3 complex. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
17	Superelasticity of Plasma- and Synthetic Membranes Resulting from Coupling of Membrane Asymmetry, Curvature, and Lipid Sorting. <i>Advanced Science</i> , <b>2021</b> , 8, e2102109	13.6	2
16	Association-dissociation process with aging subunits: Recursive solution. <i>Physical Review E</i> , <b>2015</b> , 92, 052137	2.4	1
15	Adhesion of surfaces via particle adsorption: exact results for a lattice of fluid columns. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2009</b> , 2009, P11006	1.9	1
14	Cargo Transport by Teams of Molecular Motors: Basic Mechanisms for Intracellular Drug Delivery <b>2010</b> , 289-309		1
13	Flexible membranes with anchored polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 463, 81		1
12	Critical Behavior of Interfaces: Roughening and Wetting Phenomena. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 237, 11		1
11	The physics of flexible membranes <b>1992</b> , 19-44		1
10	Universal Aspects of Interacting Lines and Surfaces <b>1994</b> , 169-206		1

9	Super-elasticity of plasma- and synthetic membranes by coupling of membrane asymmetry and liquid-liquid phase separation		1
8	Coarse-Grained Molecular Model for the Glycosylphosphatidylinositol Anchor with and without Protein. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 3889-3903	6.4	0
7	Integrin $\alpha$ 5 $\beta$ 1 Activation and Clustering in Minimal Synthetic Cells. <i>Advanced NanoBiomed Research</i> , <b>2022</b> , 2, 2100094	0	0
6	The Conformation of Flexible Membranes. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 248, 47		
5	Recent results on surface-induced disorder and surface melting. <i>Ferroelectrics</i> , <b>1989</b> , 89, 278-282	0.6	
4	Particle-membrane interactions <b>2019</b> , 211-227		
3	Critical Phenomena at Surfaces and Interfaces <b>1992</b> , 107-121		
2	Scaling Properties of Interfaces and Membranes <b>1998</b> , 227-245		
1	Traffic by Small Teams of Molecular Motors <b>2009</b> , 695-700		