

# Reinhard Lipowsky

## List of Publications by Year in Descending Order

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

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	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
313	Integrin $\beta$ Activation and Clustering in Minimal Synthetic Cells. <i>Advanced NanoBiomed Research</i> , <b>2022</b> , 2, 2100094	0	0
312	Remodeling of Membrane Shape and Topology by Curvature Elasticity and Membrane Tension. <i>Advanced Biology</i> , <b>2021</b> , e2101020		4
311	Super-Resolution Imaging of Highly Curved Membrane Structures in Giant Vesicles Encapsulating Molecular Condensates. <i>Advanced Materials</i> , <b>2021</b> , e2106633	24	4
310	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
309	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
308	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
307	Structural variability and concerted motions of the T cell receptor - CD3 complex. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
306	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
305	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
304	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
303	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
302	Simple sugars shape giant vesicles into multispheres with many membrane necks. <i>Soft Matter</i> , <b>2020</b> , 16, 1246-1258	3.6	21
301	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
300	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
299	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
298	Spherical Nanovesicles Transform into a Multitude of Nonspherical Shapes. <i>Nano Letters</i> , <b>2019</b> , 19, 7703-7711	17.4	10

297	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
296	Optimizing the dynamics of protein expression. <i>Scientific Reports</i> , <b>2019</b> , 9, 7511	4.9	9
295	Bilayer Membranes with Frequent Flip-Flops Have Tensionless Leaflets. <i>Nano Letters</i> , <b>2019</b> , 19, 5011-5016	16.5	32
294	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
293	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
292	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
291	Directed Growth of Biomimetic Microcompartments. <i>Advanced Biology</i> , <b>2019</b> , 3, e1800314	3.5	14
290	Understanding giant vesicles: A theoretical perspective <b>2019</b> , 73-168		4
289	Particle-membrane interactions <b>2019</b> , 211-227		
288	Understanding and controlling the morphological complexity of biomembranes. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , <b>2019</b> , 105-157	1	2
287	Molecular mechanics of coiled coils loaded in the shear geometry. <i>Chemical Science</i> , <b>2018</b> , 9, 4610-4621	9.4	38
286	Membrane Nanotubes Increase the Robustness of Giant Vesicles. <i>ACS Nano</i> , <b>2018</b> , 12, 4478-4485	16.7	43
285	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
284	Sequential bottom-up assembly of mechanically stabilized synthetic cells by microfluidics. <i>Nature Materials</i> , <b>2018</b> , 17, 89-96	27	211
283	The 2018 biomembrane curvature and remodeling roadmap. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51,	3	133
282	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
281	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13382-13392	16.4	155
280	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

279	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
278	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
277	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
276	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
275	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
274	Asymmetric Ionic Conditions Generate Large Membrane Curvatures. <i>Nano Letters</i> , <b>2018</b> , 18, 7816-7821	11.5	28
273	Understanding Membranes and Vesicles: A Personal Recollection of the Last Two Decades <b>2018</b> , 3-44		3
272	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
271	Domes and cones: Adhesion-induced fission of membranes by ESCRT proteins. <i>PLoS Computational Biology</i> , <b>2018</b> , 14, e1006422	5	15
270	Presynaptic Biogenesis Requires Axonal Transport of Lysosome-Related Vesicles. <i>Neuron</i> , <b>2018</b> , 99, 1216-1232	10.7	57
269	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 13566-13577	3.6	25
268	Membrane fluctuations and acidosis regulate cooperative binding of 'marker of self' protein CD47 with the macrophage checkpoint receptor SIRPβ. <i>Journal of Cell Science</i> , <b>2018</b> , 132,	5.3	33
267	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
266	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
265	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
264	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
263	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
262	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

261	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
260	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
259	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
258	The role of membrane curvature for the wrapping of nanoparticles. <i>Soft Matter</i> , <b>2016</b> , 12, 581-7	3.6	50
257	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
256	Photosensitive Peptidomimetic for Light-Controlled, Reversible DNA Compaction. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1959-68	6.9	13
255	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
254	Modulating Vesicle Adhesion by Electric Fields. <i>Biophysical Journal</i> , <b>2016</b> , 111, 1454-1464	2.9	24
253	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
252	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
251	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
250	Adhesive Nanoparticles as Local Probes of Membrane Curvature. <i>Nano Letters</i> , <b>2015</b> , 15, 7168-73	11.5	30
249	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
248	Autophagosome closure requires membrane scission. <i>Autophagy</i> , <b>2015</b> , 11, 2134-2137	10.2	52
247	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
246	Association-dissociation process with aging subunits: Recursive solution. <i>Physical Review E</i> , <b>2015</b> , 92, 052137	2.4	1
245	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
244	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

243	Protein Synthesis in <i>E. coli</i> : Dependence of Codon-Specific Elongation on tRNA Concentration and Codon Usage. <i>PLoS ONE</i> , <b>2015</b> , 10, e0134994	3.7	31
242	Molecular Motors: Cooperative Phenomena of Multiple Molecular Motors <b>2015</b> , 27-61		10
241	Wrapping of nanoparticles by membranes. <i>Advances in Colloid and Interface Science</i> , <b>2014</b> , 208, 214-24	14.3	146
240	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
239	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
238	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
237	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
236	Cooperative wrapping of nanoparticles by membrane tubes. <i>Soft Matter</i> , <b>2014</b> , 10, 3570-7	3.6	56
235	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
234	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
233	Remodeling of membrane compartments: some consequences of membrane fluidity. <i>Biological Chemistry</i> , <b>2014</b> , 395, 253-74	4.5	45
232	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
231	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
230	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
229	Effect of ribosome shielding on mRNA stability. <i>Physical Biology</i> , <b>2013</b> , 10, 046008	3	34
228	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
227	Domain formation in cholesterol-phospholipid membranes exposed to adhesive surfaces or environments. <i>Soft Matter</i> , <b>2013</b> , 9, 8438	3.6	19
226	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

225	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
224	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
223	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
222	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
221	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
220	On phosphate release in actin filaments. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2778-9	2.9	2
219	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
218	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
217	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
216	Dwell time distributions of the molecular motor myosin V. <i>PLoS ONE</i> , <b>2013</b> , 8, e55366	3.7	7
215	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
214	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
213	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
212	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
211	Distinct transport regimes for two elastically coupled molecular motors. <i>Physical Review Letters</i> , <b>2012</b> , 108, 208101	7.4	56
210	Critical motor number for fractional steps of cytoskeletal filaments in gliding assays. <i>PLoS ONE</i> , <b>2012</b> , 7, e43219	3.7	4
209	Lipid membranes in contact with aqueous phases of polymer solutions. <i>Soft Matter</i> , <b>2012</b> , 8, 6409	3.6	34
208	Tubulation and aggregation of spherical nanoparticles adsorbed on vesicles. <i>Physical Review Letters</i> , <b>2012</b> , 109, 188102	7.4	115

207	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
206	Chemomechanical coupling and motor cycles of myosin V. <i>Biophysical Journal</i> , <b>2011</b> , 100, 1747-55	2.9	30
205	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
204	Co-operative transport by molecular motors. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 1211-5	5.1	20
203	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
202	Droplet-induced budding transitions of membranes. <i>Soft Matter</i> , <b>2011</b> , 7, 6914	3.6	24
201	Vesicles with multiple membrane domains. <i>Soft Matter</i> , <b>2011</b> , 7, 6092	3.6	58
200	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
199	Length-dependent translation of messenger RNA by ribosomes. <i>Physical Review E</i> , <b>2011</b> , 83, 042903	2.4	18
198	Sequences of phase transitions in Ising models on correlated networks. <i>Physical Review E</i> , <b>2011</b> , 83, 061129	2.4	4
197	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
196	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
195	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
194	Asymptotic properties of degree-correlated scale-free networks. <i>Physical Review E</i> , <b>2010</b> , 81, 046103	2.4	33
193	Treadmilling of actin filaments via Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 155105	3.9	11
192	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
191	Morphological wetting transitions at ring-shaped surface domains. <i>Langmuir</i> , <b>2010</b> , 26, 11878-85	4	17
190	Stability of spherical vesicles in electric fields. <i>Langmuir</i> , <b>2010</b> , 26, 12390-407	4	51



189	Equilibrium morphologies and effective spring constants of capillary bridges. <i>Langmuir</i> , <b>2010</b> , 26, 18734-41	41	33
188	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
187	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
186	Semiflexible polymer rings on topographically and chemically structured surfaces. <i>Soft Matter</i> , <b>2010</b> , 6, 5461	3.6	5
185	Modelling semiflexible polymers: shape analysis, buckling instabilities, and force generation. <i>Soft Matter</i> , <b>2010</b> , 6, 5764	3.6	12
184	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
183	Cargo Transport by Teams of Molecular Motors: Basic Mechanisms for Intracellular Drug Delivery <b>2010</b> , 289-309		1
182	Interactions of alkali metal chlorides with phosphatidylcholine vesicles. <i>Langmuir</i> , <b>2010</b> , 26, 18951-8	4	104
181	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
180	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
179	Traffic by multiple species of molecular motors. <i>Physical Review E</i> , <b>2009</b> , 80, 041928	2.4	19
178	Actin polymerization and depolymerization coupled to cooperative hydrolysis. <i>Physical Review Letters</i> , <b>2009</b> , 103, 048102	7.4	28
177	Intrinsic contact angle of aqueous phases at membranes and vesicles. <i>Physical Review Letters</i> , <b>2009</b> , 103, 238103	7.4	39
176	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
175	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
174	Stochastic simulations of cargo transport by processive molecular motors. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 245107	3.9	43
173	Dissipative particle dynamics of tension-induced membrane fusion. <i>Molecular Simulation</i> , <b>2009</b> , 35, 554-560		12
172	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

171	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
170	Energy Conversion by Molecular Motors Coupled to Nucleotide Hydrolysis. <i>Journal of Statistical Physics</i> , <b>2009</b> , 135, 951-975	1.5	21
169	Nanoparticle formation in giant vesicles: synthesis in biomimetic compartments. <i>Small</i> , <b>2009</b> , 5, 2033-7	11	51
168	Morphological transitions of liquid droplets on circular surface domains. <i>Langmuir</i> , <b>2009</b> , 25, 13493-502	4	6
167	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
166	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
165	Vesicles in electric fields: Some novel aspects of membrane behavior. <i>Soft Matter</i> , <b>2009</b> , 5, 3201	3.6	124
164	Binding cooperativity of membrane adhesion receptors. <i>Soft Matter</i> , <b>2009</b> , 5, 3354	3.6	55
163	Polymorphism of vesicles with multi-domain patterns. <i>Soft Matter</i> , <b>2009</b> , 5, 3303	3.6	28
162	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
161	Traffic by Small Teams of Molecular Motors <b>2009</b> , 695-700		
160	Transport of beads by several kinesin motors. <i>Biophysical Journal</i> , <b>2008</b> , 94, 532-41	2.9	153
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