

Reinhard Lipowsky

List of Publications by Year in descending order

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Version: 2024-02-01

316
papers

23,504
citations

6613

79
h-index

10158

140
g-index

330
all docs

330
docs citations

330
times ranked

14080
citing authors

#	ARTICLE	IF	CITATIONS
1	Super-Resolution Imaging of Highly Curved Membrane Structures in Giant Vesicles Encapsulating Molecular Condensates. <i>Advanced Materials</i> , 2022, 34, e2106633.	21.0	19
2	Multispherical shapes of vesicles highlight the curvature elasticity of biomembranes. <i>Advances in Colloid and Interface Science</i> , 2022, 301, 102613.	14.7	19
3	Remodeling of Membrane Shape and Topology by Curvature Elasticity and Membrane Tension. <i>Advanced Biology</i> , 2022, 6, e2101020.	2.5	38
4	Integrin α IIb β 3 Activation and Clustering in Minimal Synthetic Cells. <i>Advanced NanoBiomed Research</i> , 2022, 2, .	3.6	3
5	Active shape oscillations of giant vesicles with cyclic closure and opening of membrane necks. <i>Soft Matter</i> , 2021, 17, 319-330.	2.7	20
6	Introduction to remodeling of biomembranes. <i>Soft Matter</i> , 2021, 17, 214-221.	2.7	14
7	Budding and Fission of Nanovesicles Induced by Membrane Adsorption of Small Solutes. <i>ACS Nano</i> , 2021, 15, 7237-7248.	14.6	19
8	En route to dynamic life processes by SNARE-mediated fusion of polymer and hybrid membranes. <i>Nature Communications</i> , 2021, 12, 4972.	12.8	21
9	Structural variability and concerted motions of the T cell receptor α CD3 complex. <i>ELife</i> , 2021, 10, .	6.0	7
10	Superelasticity of Plasma and Synthetic Membranes Resulting from Coupling of Membrane Asymmetry, Curvature, and Lipid Sorting. <i>Advanced Science</i> , 2021, 8, e2102109.	11.2	19
11	Simple sugars shape giant vesicles into multispheres with many membrane necks. <i>Soft Matter</i> , 2020, 16, 1246-1258.	2.7	46
12	Collective Force Generation by Molecular Motors Is Determined by Strain-Induced Unbinding. <i>Nano Letters</i> , 2020, 20, 669-676.	9.1	13
13	Unfolding mechanism and free energy landscape of single, stable, alpha helices at low pull speeds. <i>Soft Matter</i> , 2020, 16, 9917-9928.	2.7	6
14	Programming multi-protein assembly by gene-brush patterns and two-dimensional compartment geometry. <i>Nature Nanotechnology</i> , 2020, 15, 783-791.	31.5	19
15	Coarse-Grained Molecular Model for the Glycosylphosphatidylinositol Anchor with and without Protein. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 3889-3903.	5.3	10
16	Controlled division of cell-sized vesicles by low densities of membrane-bound proteins. <i>Nature Communications</i> , 2020, 11, 905.	12.8	143
17	Mechanical Tension of Biomembranes Can Be Measured by Super Resolution (STED) Microscopy of Force-Induced Nanotubes. <i>Nano Letters</i> , 2020, 20, 3185-3191.	9.1	21
18	Spherical Nanovesicles Transform into a Multitude of Nonspherical Shapes. <i>Nano Letters</i> , 2019, 19, 7703-7711.	9.1	25

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19	Interaction of SNARE Mimetic Peptides with Lipid bilayers: Effects of Secondary Structure, Bilayer Composition and Lipid Anchoring. <i>Scientific Reports</i> , 2019, 9, 7708.	3.3	9
20	Optimizing the dynamics of protein expression. <i>Scientific Reports</i> , 2019, 9, 7511.	3.3	24
21	Bilayer Membranes with Frequent Flip-Flops Have Tensionless Leaflets. <i>Nano Letters</i> , 2019, 19, 5011-5016.	9.1	60
22	Giant Vesicles Encapsulating Aqueous Two-Phase Systems: From Phase Diagrams to Membrane Shape Transformations. <i>Frontiers in Chemistry</i> , 2019, 7, 213.	3.6	18
23	Force-Dependent Unbinding Rate of Molecular Motors from Stationary Optical Trap Data. <i>Nano Letters</i> , 2019, 19, 2598-2602.	9.1	17
24	Force sharing and force generation by two teams of elastically coupled molecular motors. <i>Scientific Reports</i> , 2019, 9, 454.	3.3	9
25	Directed Growth of Biomimetic Microcompartments. <i>Advanced Biology</i> , 2019, 3, e1800314.	3.0	25
26	Understanding and controlling the morphological complexity of biomembranes. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2019, , 105-157.	0.6	6
27	Understanding giant vesicles: A theoretical perspective. , 2019, , 73-168.		11
28	Particleâ€membrane interactions. , 2019, , 211-227.		0
29	Molecular mechanics of coiled coils loaded in the shear geometry. <i>Chemical Science</i> , 2018, 9, 4610-4621.	7.4	48
30	Membrane Nanotubes Increase the Robustness of Giant Vesicles. <i>ACS Nano</i> , 2018, 12, 4478-4485.	14.6	56
31	Super Resolution Imaging of Highly Curved Membrane Structures in Giant Unilamellar Vesicles Encapsulating Polymer Solutions. <i>Biophysical Journal</i> , 2018, 114, 100a-101a.	0.5	1
32	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> , 2018, 122, 3572-3586.	2.6	18
33	Sequential bottom-up assembly of mechanically stabilized synthetic cells by microfluidics. <i>Nature Materials</i> , 2018, 17, 89-96.	27.5	314
34	A molecular dynamics model for glycosylphosphatidyl-inositol anchors: âœflop downâœor âœlollipopâœ?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29314-29324.	2.8	11
35	Trimeric coiled coils expand the range of strength, toughness and dynamics of coiled coil motifs under shear. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29105-29115.	2.8	11
36	Asymmetric Ionic Conditions Generate Large Membrane Curvatures. <i>Nano Letters</i> , 2018, 18, 7816-7821.	9.1	63

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37	Understanding Membranes and Vesicles: A Personal Recollection of the Last Two Decades. , 2018, , 3-44.		4
38	Nanodroplets at Membranes Create Tight-Lipped Membrane Necks <i>via</i> Negative Line Tension. ACS Nano, 2018, 12, 12424-12435.	14.6	25
39	Domes and cones: Adhesion-induced fission of membranes by ESCRT proteins. PLoS Computational Biology, 2018, 14, e1006422.	3.2	19
40	Presynaptic Biogenesis Requires Axonal Transport of Lysosome-Related Vesicles. Neuron, 2018, 99, 1216-1232.e7.	8.1	109
41	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577.	2.0	27
42	Membrane fluctuations and acidosis regulate cooperative binding of α marker of self α CD47 with macrophage checkpoint receptor SIRP α . Journal of Cell Science, 2018, 132, .	2.0	45
43	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.	7.1	95
44	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	2.8	212
45	The Conserved ESCRT-III Machinery Participates in the Phagocytosis of Entamoeba histolytica. Frontiers in Cellular and Infection Microbiology, 2018, 8, 53.	3.9	40
46	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392.	13.8	234
47	Lipids with bulky head groups generate large membrane curvatures by small compositional asymmetries. Journal of Chemical Physics, 2018, 149, 084901.	3.0	24
48	Decomposition of time-dependent fluorescence signals reveals codon-specific kinetics of protein synthesis. Nucleic Acids Research, 2018, 46, e130-e130.	14.5	8
49	Charged giant unilamellar vesicles prepared by electroformation exhibit nanotubes and transbilayer lipid asymmetry. Scientific Reports, 2018, 8, 11838.	3.3	86
50	Area Increase and Budding in Giant Vesicles Triggered by Light: Behind the Scene. Advanced Science, 2018, 5, 1800432.	11.2	37
51	Uniform and Janus-like nanoparticles in contact with vesicles: energy landscapes and curvature-induced forces. Soft Matter, 2017, 13, 2155-2173.	2.7	32
52	Tug-of-war between two elastically coupled molecular motors: a case study on force generation and force balance. Soft Matter, 2017, 13, 328-344.	2.7	11
53	Giant Vesicles Exposed to Aqueous Two-Phase Systems: Membrane Wetting, Budding Processes, and Spontaneous Tubulation. Advanced Materials Interfaces, 2017, 4, 1600451.	3.7	34
54	Membrane curvature generated by asymmetric depletion layers of ions, small molecules, and nanoparticles. Journal of Chemical Physics, 2016, 145, 074117.	3.0	24

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55	Photosensitive Peptidomimetic for Light-Controlled, Reversible DNA Compaction. <i>Biomacromolecules</i> , 2016, 17, 1959-1968.	5.4	14
56	Molar mass fractionation in aqueous two-phase polymer solutions of dextran and poly(ethylene Tj ETQq0 0 0 rgBT, Overlock, 10 Tf 50 7	3.7	22
57	Modulating Vesicle Adhesion by Electric Fields. <i>Biophysical Journal</i> , 2016, 111, 1454-1464.	0.5	29
58	Stabilization of membrane necks by adhesive particles, substrate surfaces, and constriction forces. <i>Soft Matter</i> , 2016, 12, 8155-8166.	2.7	20
59	Solution Asymmetry and Salt Expand Fluid-Fluid Coexistence Regions of Charged Membranes. <i>Biophysical Journal</i> , 2016, 110, 2581-2584.	0.5	34
60	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> , 2016, 10, 576-589.	2.7	29
61	Solvent-shared pairs of densely charged ions induce intense but short-range supra-additive slowdown of water rotation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1918-1930.	2.8	30
62	Patterns of Flexible Nanotubes Formed by Liquid-Ordered and Liquid-Disordered Membranes. <i>ACS Nano</i> , 2016, 10, 463-474.	14.6	79
63	The role of membrane curvature for the wrapping of nanoparticles. <i>Soft Matter</i> , 2016, 12, 581-587.	2.7	71
64	Binding kinetics of membrane-anchored receptors and ligands: Molecular dynamics simulations and theory. <i>Journal of Chemical Physics</i> , 2015, 143, 243137.	3.0	27
65	Association-dissociation process with aging subunits: Recursive solution. <i>Physical Review E</i> , 2015, 92, 052137.	2.1	1
66	Cell rigidity and shape override CD47â€™s â€œselfâ€™ signaling in phagocytosis by hyperactivating myosin-II. <i>Blood</i> , 2015, 125, 542-552.	1.4	122
67	Binding constants of membrane-anchored receptors and ligands: A general theory corroborated by Monte Carlo simulations. <i>Journal of Chemical Physics</i> , 2015, 143, 243136.	3.0	54
68	Protein Synthesis in E. coli: Dependence of Codon-Specific Elongation on tRNA Concentration and Codon Usage. <i>PLoS ONE</i> , 2015, 10, e0134994.	2.5	41
69	External forces influence the elastic coupling effects during cargo transport by molecular motors. <i>Physical Review E</i> , 2015, 91, 022701.	2.1	24
70	Viscoelasticity of Poly(ethylene glycol) Solutions on Supported Lipid Bilayers via Quartz Crystal Microbalance with Dissipation. <i>Macromolecules</i> , 2015, 48, 1824-1831.	4.8	24
71	Critical Particle Sizes for the Engulfment of Nanoparticles by Membranes and Vesicles with Bilayer Asymmetry. <i>ACS Nano</i> , 2015, 9, 3704-3720.	14.6	148
72	Adhesive Nanoparticles as Local Probes of Membrane Curvature. <i>Nano Letters</i> , 2015, 15, 7168-7173.	9.1	38

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73	Spontaneous curvature of bilayer membranes from molecular simulations: Asymmetric lipid densities and asymmetric adsorption. <i>Journal of Chemical Physics</i> , 2015, 142, 054101.	3.0	97
74	Autophagosome closure requires membrane scission. <i>Autophagy</i> , 2015, 11, 2134-2137.	9.1	66
75	Molecular Motors: Cooperative Phenomena of Multiple Molecular Motors. , 2015, , 27-61.		14
76	Deducing the Kinetics of Protein Synthesis In Vivo from the Transition Rates Measured In Vitro. <i>PLoS Computational Biology</i> , 2014, 10, e1003909.	3.2	45
77	Remodeling of membrane compartments: some consequences of membrane fluidity. <i>Biological Chemistry</i> , 2014, 395, 253-274.	2.5	54
78	Wrapping of nanoparticles by membranes. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 214-224.	14.7	186
79	Allosteric control of kinesin's motor domain by tubulin: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6189.	2.8	11
80	Effect of cytochrome c on the phase behavior of charged multicomponent lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2036-2045.	2.6	26
81	Conformational Diversity of O-Antigen Polysaccharides of the Gram-Negative Bacterium <i>Shigella flexneri</i> Serotype Y. <i>Journal of Physical Chemistry B</i> , 2014, 118, 2523-2534.	2.6	18
82	Bacterial twitching motility is coordinated by a two-dimensional tug-of-war with directional memory. <i>Nature Communications</i> , 2014, 5, 3759.	12.8	83
83	Cooperative wrapping of nanoparticles by membrane tubes. <i>Soft Matter</i> , 2014, 10, 3570.	2.7	72
84	Coupling of bending and stretching deformations in vesicle membranes. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 14-24.	14.7	78
85	Membrane Morphology Is Actively Transformed by Covalent Binding of the Protein Atg8 to PE-Lipids. <i>PLoS ONE</i> , 2014, 9, e115357.	2.5	58
86	Elastic Coupling Effects in Cooperative Transport by a Pair of Molecular Motors. <i>Cellular and Molecular Bioengineering</i> , 2013, 6, 48-64.	2.1	20
87	Spontaneous tubulation of membranes and vesicles reveals membrane tension generated by spontaneous curvature. <i>Faraday Discussions</i> , 2013, 161, 305-331.	3.2	241
88	Effect of ribosome shielding on mRNA stability. <i>Physical Biology</i> , 2013, 10, 046008.	1.8	52
89	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> , 2013, 110, 15283-15288.	7.1	117
90	Domain formation in cholesterol-phospholipid membranes exposed to adhesive surfaces or environments. <i>Soft Matter</i> , 2013, 9, 8438.	2.7	22

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91	Effect of tension and curvature on the chemical potential of lipids in lipid aggregates. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 876-881.	2.8	19
92	Network Complexity and Parametric Simplicity for Cargo Transport by Two Molecular Motors. <i>Journal of Statistical Physics</i> , 2013, 150, 205-234.	1.2	14
93	Bifurcation of Velocity Distributions in Cooperative Transport of Filaments by Fast and Slow Motors. <i>Biophysical Journal</i> , 2013, 104, 666-676.	0.5	10
94	Phase Diagram and Tie-Line Determination for the Ternary Mixture DOPC/eSM/Cholesterol. <i>Biophysical Journal</i> , 2013, 104, 1456-1464.	0.5	97
95	Standard Gibbs energies of formation and equilibrium constants from ab-initio calculations: Covalent dimerization of NO ₂ and synthesis of NH ₃ . <i>Journal of Chemical Thermodynamics</i> , 2013, 62, 211-221.	2.0	6
96	Importance of Polar Solvation and Configurational Entropy for Design of Antiretroviral Drugs Targeting HIV-1 Protease. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5793-5805.	2.6	48
97	On Phosphate Release in Actin Filaments. <i>Biophysical Journal</i> , 2013, 104, 2778-2779.	0.5	4
98	Cooperative Slowdown of Water Rotation near Densely Charged Ions Is Intense but Short-Ranged. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10556-10566.	2.6	24
99	Adhesion-Induced Phase Behavior of Two-Component Membranes and Vesicles. <i>International Journal of Molecular Sciences</i> , 2013, 14, 2203-2229.	4.1	9
100	Complex Degradation Processes Lead to Non-Exponential Decay Patterns and Age-Dependent Decay Rates of Messenger RNA. <i>PLoS ONE</i> , 2013, 8, e55442.	2.5	39
101	Dwell Time Distributions of the Molecular Motor Myosin V. <i>PLoS ONE</i> , 2013, 8, e55366.	2.5	7
102	Tubulation and Aggregation of Spherical Nanoparticles Adsorbed on Vesicles. <i>Physical Review Letters</i> , 2012, 109, 188102.	7.8	144
103	Wetting-Induced Budding of Vesicles in Contact with Several Aqueous Phases. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1819-1823.	2.6	43
104	Mechanical Compressibility of the Glycosylphosphatidylinositol (GPI) Anchor Backbone Governed by Independent Glycosidic Linkages. <i>Journal of the American Chemical Society</i> , 2012, 134, 18964-18972.	13.7	39
105	Concentration Dependence of the Interfacial Tension for Aqueous Two-Phase Polymer Solutions of Dextran and Polyethylene Glycol. <i>Langmuir</i> , 2012, 28, 3831-3839.	3.5	118
106	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> , 2012, 109, 10769-10774.	7.1	36
107	Distinct Transport Regimes for Two Elastically Coupled Molecular Motors. <i>Physical Review Letters</i> , 2012, 108, 208101.	7.8	63
108	Critical Motor Number for Fractional Steps of Cytoskeletal Filaments in Gliding Assays. <i>PLoS ONE</i> , 2012, 7, e43219.	2.5	6

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109	Lipid membranes in contact with aqueous phases of polymer solutions. <i>Soft Matter</i> , 2012, 8, 6409.	2.7	38
110	Curvature of Double-Membrane Organelles Generated by Changes in Membrane Size and Composition. <i>PLoS ONE</i> , 2012, 7, e32753.	2.5	54
111	Droplet-induced budding transitions of membranes. <i>Soft Matter</i> , 2011, 7, 6914.	2.7	32
112	Vesicles with multiple membrane domains. <i>Soft Matter</i> , 2011, 7, 6092.	2.7	65
113	Importance of Polar Solvation for Cross-Reactivity of Antibody and Its Variants with Steroids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7661-7669.	2.6	38
114	Chemomechanical Coupling and Motor Cycles of Myosin V. <i>Biophysical Journal</i> , 2011, 100, 1747-1755.	0.5	34
115	Line Tension and Stability of Domains in Cell-Adhesion Zones Mediated by Long and Short Receptor-Ligand Complexes. <i>PLoS ONE</i> , 2011, 6, e23284.	2.5	28
116	Co-operative transport by molecular motors. <i>Biochemical Society Transactions</i> , 2011, 39, 1211-1215.	3.4	23
117	Translation by Ribosomes with mRNA Degradation: Exclusion Processes on Aging Tracks. <i>Journal of Statistical Physics</i> , 2011, 145, 1385-1404.	1.2	19
118	Length-dependent translation of messenger RNA by ribosomes. <i>Physical Review E</i> , 2011, 83, 042903.	2.1	21
119	Sequences of phase transitions in Ising models on correlated networks. <i>Physical Review E</i> , 2011, 83, 061129.	2.1	4
120	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> , 2011, 108, 4731-4736.	7.1	141
121	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> , 2011, 108, 3618-3623.	7.1	139
122	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> , 2011, 9, e1001161.	5.6	138
123	Interactions of Alkali Metal Chlorides with Phosphatidylcholine Vesicles. <i>Langmuir</i> , 2010, 26, 18951-18958.	3.5	120
124	Impact of Slip Cycles on the Operation Modes and Efficiency of Molecular Motors. <i>Journal of Statistical Physics</i> , 2010, 141, 1-16.	1.2	12
125	Cooperative behavior of molecular motors: Cargo transport and traffic phenomena. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 649-661.	2.7	38
126	Asymptotic properties of degree-correlated scale-free networks. <i>Physical Review E</i> , 2010, 81, 046103.	2.1	39

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127	Treadmilling of actin filaments via Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2010, 133, 155105.	3.0	12
128	Bidirectional Transport by Molecular Motors: Enhanced Processivity and Response to External Forces. <i>Biophysical Journal</i> , 2010, 98, 2610-2618.	0.5	99
129	Morphological Wetting Transitions at Ring-Shaped Surface Domains. <i>Langmuir</i> , 2010, 26, 11878-11885.	3.5	19
130	Stability of Spherical Vesicles in Electric Fields. <i>Langmuir</i> , 2010, 26, 12390-12407.	3.5	60
131	Equilibrium Morphologies and Effective Spring Constants of Capillary Bridges. <i>Langmuir</i> , 2010, 26, 18734-18741.	3.5	34
132	Solvent-Exposed Tails as Prestalk Transition States for Membrane Fusion at Low Hydration. <i>Journal of the American Chemical Society</i> , 2010, 132, 6710-6718.	13.7	142
133	Fusion-Relevant Changes in Lipid Shape of Hydrated Cholesterol Hemisuccinate Induced by pH and Counterion Species. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14941-14946.	2.6	12
134	Semiflexible polymer rings on topographically and chemically structured surfaces. <i>Soft Matter</i> , 2010, 6, 5461.	2.7	6
135	Modelling semiflexible polymers: shape analysis, buckling instabilities, and force generation. <i>Soft Matter</i> , 2010, 6, 5764.	2.7	13
136	Effect of cholesterol on the rigidity of saturated and unsaturated membranes: fluctuation and electrodeformation analysis of giant vesicles. <i>Soft Matter</i> , 2010, 6, 1472.	2.7	301
137	Traffic by multiple species of molecular motors. <i>Physical Review E</i> , 2009, 80, 041928.	2.1	23
138	Actin Polymerization and Depolymerization Coupled to Cooperative Hydrolysis. <i>Physical Review Letters</i> , 2009, 103, 048102.	7.8	34
139	Intrinsic Contact Angle of Aqueous Phases at Membranes and Vesicles. <i>Physical Review Letters</i> , 2009, 103, 238103.	7.8	50
140	Adhesion of surfaces via particle adsorption: exact results for a lattice of fluid columns. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P11006.	2.3	1
141	Self-assembly of actin monomers into long filaments: Brownian dynamics simulations. <i>Journal of Chemical Physics</i> , 2009, 131, 015102.	3.0	18
142	Stochastic simulations of cargo transport by processive molecular motors. <i>Journal of Chemical Physics</i> , 2009, 131, 245107.	3.0	55
143	Dissipative particle dynamics of tension-induced membrane fusion. <i>Molecular Simulation</i> , 2009, 35, 554-560.	2.0	13
144	Editorial: "ACTIVE BIOMIMETIC SYSTEMS: FORCE GENERATION AND CARGO TRANSPORT BY MOLECULAR MACHINES". <i>Biophysical Reviews and Letters</i> , 2009, 04, 1-4.	0.8	4

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145	ACTIVE BIO-SYSTEMS: FROM SINGLE MOTOR MOLECULES TO COOPERATIVE CARGO TRANSPORT. <i>Biophysical Reviews and Letters</i> , 2009, 04, 77-137.	0.8	12
146	Transport by Molecular Motors in the Presence of Static Defects. <i>Journal of Statistical Physics</i> , 2009, 135, 241-260.	1.2	18
147	Energy Conversion by Molecular Motors Coupled to Nucleotide Hydrolysis. <i>Journal of Statistical Physics</i> , 2009, 135, 951-975.	1.2	23
148	Nanoparticle Formation in Giant Vesicles: Synthesis in Biomimetic Compartments. <i>Small</i> , 2009, 5, 2033-2037.	10.0	57
149	Morphological Transitions of Liquid Droplets on Circular Surface Domains. <i>Langmuir</i> , 2009, 25, 13493-13502.	3.5	8
150	The Fusion of Membranes and Vesicles: Pathway and Energy Barriers from Dissipative Particle Dynamics. <i>Biophysical Journal</i> , 2009, 96, 2658-2675.	0.5	160
151	Adhesion of membranes via receptor-ligand complexes: Domain formation, binding cooperativity, and active processes. <i>Soft Matter</i> , 2009, 5, 3213.	2.7	92
152	Vesicles in electric fields: Some novel aspects of membrane behavior. <i>Soft Matter</i> , 2009, 5, 3201.	2.7	155
153	Binding cooperativity of membrane adhesion receptors. <i>Soft Matter</i> , 2009, 5, 3354.	2.7	71
154	Polymorphism of vesicles with multi-domain patterns. <i>Soft Matter</i> , 2009, 5, 3303.	2.7	32
155	Self-assembling network and bundle structures in systems of rods and crosslinkers – A Monte Carlo study. <i>Soft Matter</i> , 2009, 5, 1504.	2.7	16
156	Traffic by Small Teams of Molecular Motors. , 2009, , 695-700.		0
157	Chemomechanical Coupling of Molecular Motors: Thermodynamics, Network Representations, and Balance Conditions. <i>Journal of Statistical Physics</i> , 2008, 130, 39-67.	1.2	49
158	Motility States of Molecular Motors Engaged in Stochastic Tug-of-War. <i>Journal of Statistical Physics</i> , 2008, 133, 1059-1081.	1.2	57
159	Transport of Beads by Several Kinesin Motors. <i>Biophysical Journal</i> , 2008, 94, 532-541.	0.5	177
160	Morphological Transitions of Vesicles Induced by Alternating Electric Fields. <i>Biophysical Journal</i> , 2008, 95, L19-L21.	0.5	92
161	Tension-induced vesicle fusion: pathways and pore dynamics. <i>Soft Matter</i> , 2008, 4, 1208.	2.7	92
162	Membrane flow patterns in multicomponent giant vesicles induced by alternating electric fields. <i>Soft Matter</i> , 2008, 4, 2168.	2.7	34

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163	Tug-of-war as a cooperative mechanism for bidirectional cargo transport by molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4609-4614.	7.1	467
164	Transition from Complete to Partial Wetting within Membrane Compartments. Journal of the American Chemical Society, 2008, 130, 12252-12253.	13.7	79
165	Effects of the chemomechanical stepping cycle on the traffic of molecular motors. Physical Review E, 2008, 78, 041909.	2.1	41
166	Stable Patterns of Membrane Domains at Corrugated Substrates. Physical Review Letters, 2008, 100, 098103.	7.8	38
167	Activity patterns on random scale-free networks: global dynamics arising from local majority rules. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P01009-P01009.	2.3	4
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169	Stretching of buckled filaments by thermal fluctuations. Physical Review E, 2007, 76, 061914.	2.1	33
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