

Udo Seifert

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6831883/udo-seifert-publications-by-year.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.

193
papers

15,275
citations

61
h-index

120
g-index

198
ext. papers

17,113
ext. citations

4.1
avg, IF

7.6
L-index

#	Paper	IF	Citations
193	The Two Scaling Regimes of the Thermodynamic Uncertainty Relation for the KPZ-Equation. <i>Journal of Statistical Physics</i> , 2022 , 186, 1	1.5	1
192	Phase shift in periodically driven non-equilibrium systems: its identification and a bound. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022 , 2022, 033207	1.9	0
191	Operationally accessible uncertainty relations for thermodynamically consistent semi-Markov processes.. <i>Physical Review E</i> , 2022 , 105, 044113	2.4	1
190	Optimality of nonconservative driving for finite-time processes with discrete states. <i>Physical Review E</i> , 2021 , 103, L050105	2.4	2
189	Propagator for a driven Brownian particle in step potentials. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 065002	2	0
188	Stochastic Discrete Time Crystals: Entropy Production and Subharmonic Synchronization. <i>Physical Review Letters</i> , 2021 , 126, 020603	7.4	3
187	Quality of the thermodynamic uncertainty relation for fast and slow driving. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 414005	2	1
186	Numerical Study of the Thermodynamic Uncertainty Relation for the KPZ-Equation. <i>Journal of Statistical Physics</i> , 2021 , 182, 1	1.5	3
185	Stochastic thermodynamics of chemical reactions coupled to finite reservoirs: A case study for the Brusselator. <i>Journal of Chemical Physics</i> , 2020 , 152, 235101	3.9	3
184	Field-Theoretic Thermodynamic Uncertainty Relation. <i>Journal of Statistical Physics</i> , 2020 , 178, 1142-1174	4.5	9
183	Thermodynamic Uncertainty Relation for Time-Dependent Driving. <i>Physical Review Letters</i> , 2020 , 125, 260604	7.4	29
182	Free diffusion bounds the precision of currents in underdamped dynamics. <i>Physical Review E</i> , 2020 , 102, 012120	2.4	8
181	Exponential volume dependence of entropy-current fluctuations at first-order phase transitions in chemical reaction networks. <i>Physical Review E</i> , 2020 , 102, 022101	2.4	5
180	Entropy and the second law for driven, or quenched, thermally isolated systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 552, 121822	3.3	2
179	Affinity-dependent bound on the spectrum of stochastic matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 405002	2	
178	Operationally Accessible Bounds on Fluctuations and Entropy Production in Periodically Driven Systems. <i>Physical Review Letters</i> , 2019 , 122, 230601	7.4	35
177	Effect of a magnetic field on the thermodynamic uncertainty relation. <i>Physical Review E</i> , 2019 , 99, 042128	4.4	29

176	Interlinked GTPase cascades provide a motif for both robust switches and oscillators. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190198	4.1	4
175	Subharmonic oscillations in stochastic systems under periodic driving. <i>Physical Review E</i> , 2019 , 100, 012135	3.5	8
174	Statistical Mechanics of an Elastically Pinned Membrane: Equilibrium Dynamics and Power Spectrum. <i>Biophysical Journal</i> , 2019 , 117, 542-552	2.9	2
173	Autonomous Engines Driven by Active Matter: Energetics and Design Principles. <i>Physical Review X</i> , 2019 , 9,	9.1	34
172	A generalization of the thermodynamic uncertainty relation to periodically driven systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019 , 52, 02LT02	2	52
171	Statistical Mechanics of an Elastically Pinned Membrane: Static Profile and Correlations. <i>Biophysical Journal</i> , 2019 , 116, 283-295	2.9	9
170	From Stochastic Thermodynamics to Thermodynamic Inference. <i>Annual Review of Condensed Matter Physics</i> , 2019 , 10, 171-192	19.7	65
169	Large deviation function for a driven underdamped particle in a periodic potential. <i>Physical Review E</i> , 2018 , 97, 022143	2.4	31
168	Fluctuations of apparent entropy production in networks with hidden slow degrees of freedom. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 023203	1.9	11
167	Force-dependent diffusion coefficient of molecular Brownian ratchets. <i>Physical Review E</i> , 2018 , 98, 022402	4.2	6
166	Phase transition in thermodynamically consistent biochemical oscillators. <i>Journal of Chemical Physics</i> , 2018 , 149, 045101	3.9	20
165	Universal Trade-Off between Power, Efficiency, and Constancy in Steady-State Heat Engines. <i>Physical Review Letters</i> , 2018 , 120, 190602	7.4	158
164	Stochastic thermodynamics: From principles to the cost of precision. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 504, 176-191	3.3	36
163	Entropy production of active particles and for particles in active baths. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018 , 51, 01LT01	2	50
162	Stochastic Thermodynamics of Learning. <i>Physical Review Letters</i> , 2017 , 118, 010601	7.4	24
161	Membrane fluctuations mediate lateral interaction between cadherin bonds. <i>Nature Physics</i> , 2017 , 13, 906-913	16.2	51
160	Thermodynamic Bounds on the Ultra- and Infra-affinity of Hsp70 for Its Substrates. <i>Biophysical Journal</i> , 2017 , 113, 362-370	2.9	10
159	Thermodynamic cost of external control. <i>New Journal of Physics</i> , 2017 , 19, 073021	2.9	22

158	Universal Coherence-Induced Power Losses of Quantum Heat Engines in Linear Response. <i>Physical Review Letters</i> , 2017 , 119, 170602	7.4	57
157	Coherence of biochemical oscillations is bounded by driving force and network topology. <i>Physical Review E</i> , 2017 , 95, 062409	2.4	25
156	Finite-time generalization of the thermodynamic uncertainty relation. <i>Physical Review E</i> , 2017 , 96, 012101	1.4	102
155	Radial Growth in 2D Revisited: The Effect of Finite Density, Binding Affinity, Reaction Rates, and Diffusion. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600310	4.6	3
154	Thermodynamic efficiency of learning a rule in neural networks. <i>New Journal of Physics</i> , 2017 , 19, 113001	1.9	6
153	Optimal performance of periodically driven, stochastic heat engines under limited control. <i>Physical Review E</i> , 2016 , 93, 042112	2.4	47
152	Universal bounds on current fluctuations. <i>Physical Review E</i> , 2016 , 93, 052145	2.4	135
151	Periodic thermodynamics of open quantum systems. <i>Physical Review E</i> , 2016 , 93, 062134	2.4	66
150	Sensory capacity: An information theoretical measure of the performance of a sensor. <i>Physical Review E</i> , 2016 , 93, 022116	2.4	36
149	First and Second Law of Thermodynamics at Strong Coupling. <i>Physical Review Letters</i> , 2016 , 116, 020601	7.4	109
148	Optimal inference strategies and their implications for the linear noise approximation. <i>Physical Review E</i> , 2016 , 94, 042416	2.4	2
147	Stochastic thermodynamics of resetting. <i>Europhysics Letters</i> , 2016 , 113, 60009	1.6	60
146	Extreme fluctuations of active Brownian motion. <i>New Journal of Physics</i> , 2016 , 18, 052001	2.9	26
145	Energetics of synchronization in coupled oscillators rotating on circular trajectories. <i>Physical Review E</i> , 2016 , 94, 052221	2.4	8
144	Cost and Precision of Brownian Clocks. <i>Physical Review X</i> , 2016 , 6,	9.1	76
143	Universal bound on the efficiency of molecular motors. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016 , 2016, 124004	1.9	78
142	Nanometric thermal fluctuations of weakly confined biomembranes measured with microsecond time-resolution. <i>Soft Matter</i> , 2016 , 12, 4755-68	3.6	13
141	Affinity- and topology-dependent bound on current fluctuations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 34LT01	2	26

140	Bound on thermoelectric power in a magnetic field within linear response. <i>Physical Review E</i> , 2015 , 91, 012121	2.4	40
139	Effective rates from thermodynamically consistent coarse-graining of models for molecular motors with probe particles. <i>Physical Review E</i> , 2015 , 91, 022709	2.4	24
138	Deformation of phospholipid vesicles in an optical stretcher. <i>Soft Matter</i> , 2015 , 11, 6075-88	3.6	26
137	Nonequilibrium sensing and its analogy to kinetic proofreading. <i>New Journal of Physics</i> , 2015 , 17, 055026	2.9	34
136	Thermodynamic uncertainty relation for biomolecular processes. <i>Physical Review Letters</i> , 2015 , 114, 158101	7.1	348
135	Universal bound on the Fano factor in enzyme kinetics. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 6555-61	5.4	62
134	Crowding of receptors induces ring-like adhesions in model membranes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015 , 1853, 2984-91	4.9	15
133	Single-molecule measurement of the effective temperature in non-equilibrium steady states. <i>Nature Physics</i> , 2015 , 11, 971-977	16.2	56
132	Coherence-enhanced efficiency of feedback-driven quantum engines. <i>New Journal of Physics</i> , 2015 , 17, 065006	2.9	44
131	Dispersion for two classes of random variables: general theory and application to inference of an external ligand concentration by a cell. <i>Physical Review E</i> , 2015 , 92, 032127	2.4	11
130	Skewness and Kurtosis in Statistical Kinetics. <i>Physical Review Letters</i> , 2015 , 115, 188103	7.4	13
129	Multiscale approaches to protein-mediated interactions between membranes relating microscopic and macroscopic dynamics in radially growing adhesions. <i>New Journal of Physics</i> , 2015 , 17, 083016	2.9	21
128	Thermodynamics of Micro- and Nano-Systems Driven by Periodic Temperature Variations. <i>Physical Review X</i> , 2015 , 5,	9.1	101
127	Fluid vesicles in flow. <i>Advances in Colloid and Interface Science</i> , 2014 , 208, 129-41	14.3	73
126	Stochastic thermodynamics of bipartite systems: transfer entropy inequalities and a Maxwell demon interpretation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P02016	1.9	105
125	Classical Nernst engine. <i>Physical Review Letters</i> , 2014 , 112, 140601	7.4	34
124	Fine-structured large deviations and the fluctuation theorem: Molecular motors and beyond. <i>Europhysics Letters</i> , 2014 , 107, 20002	1.6	16
123	Optimized finite-time information machine. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P09010	1.9	7

122	Efficiency of cellular information processing. <i>New Journal of Physics</i> , 2014 , 16, 103024	2.9	101
121	Stochastic thermodynamics with information reservoirs. <i>Physical Review E</i> , 2014 , 90, 042150	2.4	44
120	Association rates of membrane-coupled cell adhesion molecules. <i>Biophysical Journal</i> , 2014 , 107, L33-6	2.9	17
119	Signature of a Nonharmonic Potential as Revealed from a Consistent Shape and Fluctuation Analysis of an Adherent Membrane. <i>Physical Review X</i> , 2014 , 4,	9.1	4
118	Wrinkling instability of vesicles in steady linear flow. <i>Europhysics Letters</i> , 2014 , 107, 28001	1.6	4
117	Crystallization in a sheared colloidal suspension. <i>Journal of Chemical Physics</i> , 2013 , 138, 224907	3.9	24
116	Rate of Mutual Information Between Coarse-Grained Non-Markovian Variables. <i>Journal of Statistical Physics</i> , 2013 , 153, 460-478	1.5	29
115	Strong bounds on Onsager coefficients and efficiency for three-terminal thermoelectric transport in a magnetic field. <i>Physical Review Letters</i> , 2013 , 110, 070603	7.4	124
114	Noisy nonlinear dynamics of vesicles in flow. <i>Physical Review Letters</i> , 2013 , 110, 238103	7.4	20
113	An autonomous and reversible Maxwell's demon. <i>Europhysics Letters</i> , 2013 , 101, 60001	1.6	79
112	Multi-terminal thermoelectric transport in a magnetic field: bounds on Onsager coefficients and efficiency. <i>New Journal of Physics</i> , 2013 , 15, 105003	2.9	63
111	Stochastic thermodynamics, fluctuation theorems and molecular machines. <i>Reports on Progress in Physics</i> , 2012 , 75, 126001	14.4	1677
110	Role of hidden slow degrees of freedom in the fluctuation theorem. <i>Physical Review Letters</i> , 2012 , 108, 220601	7.4	70
109	Dynamics and efficiency of a self-propelled, diffusiophoretic swimmer. <i>Journal of Chemical Physics</i> , 2012 , 136, 064508	3.9	82
108	Nonlinear, electrocatalytic swimming in the presence of salt. <i>Journal of Chemical Physics</i> , 2012 , 136, 214507	3.9	48
107	Thermodynamics of genuine nonequilibrium states under feedback control. <i>Physical Review Letters</i> , 2012 , 108, 030601	7.4	83
106	Efficiencies of a molecular motor: a generic hybrid model applied to the F1-ATPase. <i>New Journal of Physics</i> , 2012 , 14, 103023	2.9	42
105	Efficiency of a Brownian information machine. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 162001	2	42

104	Effective confinement as origin of the equivalence of kinetic temperature and fluctuation-dissipation ratio in a dense shear-driven suspension. <i>Physical Review E</i> , 2012 , 85, 021103	2.4	11
103	Effective tension and fluctuations in active membranes. <i>Physical Review E</i> , 2012 , 85, 031913	2.4	20
102	Nucleation of ligand-receptor domains in membrane adhesion. <i>Physical Review Letters</i> , 2012 , 109, 258101	1.4	49
101	Effect of thermal noise on vesicles and capsules in shear flow. <i>Physical Review E</i> , 2012 , 86, 010902	2.4	10
100	Coexistence of dilute and densely packed domains of ligand-receptor bonds in membrane adhesion. <i>Europhysics Letters</i> , 2012 , 99, 38003	1.6	20
99	The large deviation function for entropy production: the optimal trajectory and the role of fluctuations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P12001	1.9	33
98	Extracting work from a single heat bath through feedback. <i>Europhysics Letters</i> , 2011 , 94, 10001	1.6	110
97	Stochastic thermodynamics of single enzymes and molecular motors. <i>European Physical Journal E</i> , 2011 , 34, 26	1.5	80
96	Switching from ultraweak to strong adhesion. <i>Advanced Materials</i> , 2011 , 23, 2622-6	2.4	20
95	Two intertwined facets of adherent membranes: membrane roughness and correlations between ligand-receptor bonds. <i>New Journal of Physics</i> , 2011 , 13, 025003	2.9	22
94	Thermodynamic theory of phase transitions in driven lattice gases. <i>Physical Review E</i> , 2011 , 84, 051130	2.4	5
93	Approximate thermodynamic structure for driven lattice gases in contact. <i>Physical Review E</i> , 2011 , 84, 041104	2.4	25
92	Efficiency of autonomous soft nanomachines at maximum power. <i>Physical Review Letters</i> , 2011 , 106, 020601	7.4	104
91	Diffusing proteins on a fluctuating membrane: analytical theory and simulations. <i>Physical Review E</i> , 2010 , 81, 031903	2.4	35
90	Nonequilibrium steady states in contact: approximate thermodynamic structure and zeroth law for driven lattice gases. <i>Physical Review Letters</i> , 2010 , 105, 150601	7.4	22
89	Generalized Einstein or Green-Kubo relations for active biomolecular transport. <i>Physical Review Letters</i> , 2010 , 104, 138101	7.4	26
88	Fluctuation-dissipation theorem in nonequilibrium steady states. <i>Europhysics Letters</i> , 2010 , 89, 10007	1.6	165
87	Communications: Can one identify nonequilibrium in a three-state system by analyzing two-state trajectories?. <i>Journal of Chemical Physics</i> , 2010 , 132, 041102	3.9	16

86	Efficiency of surface-driven motion: nanoswimmers beat microswimmers. <i>Physical Review Letters</i> , 2010 , 105, 218103	7.4	44
85	Specific adhesion of membranes: Mapping to an effective bond lattice gas. <i>Physical Review E</i> , 2010 , 82, 021923	2.4	24
84	Experimental accessibility of generalized fluctuation-dissipation relations for nonequilibrium steady states. <i>Physical Review E</i> , 2010 , 82, 032401	2.4	31
83	Optimal potentials for temperature ratchets. <i>Physical Review E</i> , 2009 , 79, 031118	2.4	15
82	Extended fluctuation-dissipation theorem for soft matter in stationary flow. <i>Physical Review E</i> , 2009 , 79, 040102	2.4	44
81	Optimal protocols for Hamiltonian and Schrödinger dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P07013	1.9	15
80	Large deviation function for entropy production in driven one-dimensional systems. <i>Physical Review E</i> , 2008 , 78, 011123	2.4	53
79	Curvature coupling dependence of membrane protein diffusion coefficients. <i>Langmuir</i> , 2008 , 24, 1254-61		32
78	Force-induced growth of adhesion domains is controlled by receptor mobility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6906-11	11.5	104
77	Optimal protocols for minimal work processes in underdamped stochastic thermodynamics. <i>Journal of Chemical Physics</i> , 2008 , 129, 024114	3.9	77
76	Efficiency of molecular motors at maximum power. <i>Europhysics Letters</i> , 2008 , 83, 30005	1.6	93
75	Dynamics of specific vesicle-substrate adhesion: from local events to global dynamics. <i>Physical Review Letters</i> , 2008 , 101, 208103	7.4	55
74	Role of external flow and frame invariance in stochastic thermodynamics. <i>Physical Review Letters</i> , 2008 , 100, 178302	7.4	40
73	Swinging and tumbling of elastic capsules in shear flow. <i>Journal of Fluid Mechanics</i> , 2008 , 605, 207-226	3.7	101
72	Stochastic thermodynamics: principles and perspectives. <i>European Physical Journal B</i> , 2008 , 64, 423-431	1.2	316
71	Two-dimensional fluctuating vesicles in linear shear flow. <i>European Physical Journal E</i> , 2008 , 25, 309-21	1.5	43
70	Vesicles as a model for controlled (de-)adhesion of cells: a thermodynamic approach. <i>Soft Matter</i> , 2007 , 3, 275-289	3.6	43
69	The Jarzynski relation, fluctuation theorems, and stochastic thermodynamics for non-Markovian processes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, L09002-L09002	1.9	58

68	Entropy Production for Mechanically or Chemically Driven Biomolecules. <i>Journal of Statistical Physics</i> , 2007 , 128, 77-93	1.5	45
67	Distribution of entropy production for a colloidal particle in a nonequilibrium steady state. <i>Europhysics Letters</i> , 2007 , 79, 30002	1.6	60
66	Stochastic thermodynamics of chemical reaction networks. <i>Journal of Chemical Physics</i> , 2007 , 126, 044103	1.9	115
65	Optimal finite-time processes in stochastic thermodynamics. <i>Physical Review Letters</i> , 2007 , 98, 108301	7.4	205
64	Einstein relation generalized to nonequilibrium. <i>Physical Review Letters</i> , 2007 , 98, 210601	7.4	118
63	Hybrid simulations of lateral diffusion in fluctuating membranes. <i>Physical Review E</i> , 2007 , 75, 011908	2.4	40
62	Giant Vesicles: A Theoretical Perspective. <i>Perspectives in Supramolecular Chemistry</i> , 2007 , 71-91		
61	Restoring a fluctuation-dissipation theorem in a nonequilibrium steady state. <i>Europhysics Letters</i> , 2006 , 74, 391-396	1.6	184
60	Nonmonotonic fluctuation spectra of membranes pinned or tethered discretely to a substrate. <i>Physical Review E</i> , 2006 , 73, 010401	2.4	19
59	Adhesion of microcapsules. <i>Langmuir</i> , 2006 , 22, 7117-9	4	9
58	Antagonist-induced deadhesion of specifically adhered vesicles. <i>Biophysical Journal</i> , 2006 , 90, 1064-80	2.9	29
57	Wrinkling of microcapsules in shear flow. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, L185-L191	1.8	42
56	Entropy production along a stochastic trajectory and an integral fluctuation theorem. <i>Physical Review Letters</i> , 2005 , 95, 040602	7.4	935
55	Force-induced de-adhesion of specifically bound vesicles: strong adhesion in competition with tether extraction. <i>Langmuir</i> , 2005 , 21, 11357-67	4	8
54	Fluctuation theorem for a single enzym or molecular motor. <i>Europhysics Letters</i> , 2005 , 70, 36-41	1.6	77
53	Force spectroscopy of single multidomain biopolymers: a master equation approach. <i>European Physical Journal E</i> , 2005 , 18, 1-13	1.5	7
52	Lateral diffusion of a protein on a fluctuating membrane. <i>Europhysics Letters</i> , 2005 , 71, 859-865	1.6	62
51	Effective adhesion strength of specifically bound vesicles. <i>Physical Review E</i> , 2005 , 71, 061902	2.4	42

50	Experimental test of the fluctuation theorem for a driven two-level system with time-dependent rates. <i>Physical Review Letters</i> , 2005 , 94, 180602	7.4	119
49	Pulling tethers from adhered vesicles. <i>Physical Review Letters</i> , 2004 , 92, 208101	7.4	54
48	Probing molecular free energy landscapes by periodic loading. <i>Physical Review Letters</i> , 2004 , 93, 158105	7.4	52
47	Fluctuation theorem for birth-death or chemical master equations with time-dependent rates. <i>Journal of Physics A</i> , 2004 , 37, L517-L521		42
46	Distribution of work in isothermal nonequilibrium processes. <i>Physical Review E</i> , 2004 , 70, 066112	2.4	69
45	Dynamic strength of adhesion molecules: Role of rebinding and self-consistent rates. <i>Europhysics Letters</i> , 2002 , 58, 792-798	1.6	70
44	Influence of shear flow on vesicles near a wall: A numerical study. <i>Physical Review E</i> , 2001 , 64, 011916	2.4	105
43	Rupture of multiple parallel molecular bonds under dynamic loading. <i>Physical Review Letters</i> , 2000 , 84, 2750-3	7.4	210
42	Highly Ordered Size-Dispersive Packings of Polydisperse Microgel Spheres. <i>Langmuir</i> , 2000 , 16, 7634-7639		20
41	Hydrodynamic Lift on Bound Vesicles. <i>Physical Review Letters</i> , 1999 , 83, 876-879	7.4	71
40	Escape from a metastable well under a time-ramped force. <i>Physical Review E</i> , 1998 , 57, 7301-7304	2.4	27
39	Modeling nonlinear red cell elasticity. <i>Biophysical Journal</i> , 1998 , 75, 1141-2	2.9	7
38	Thermally induced proliferation of pores in a model fluid membrane. <i>Biophysical Journal</i> , 1998 , 74, 1754-66		45
37	Dynamics of Giant Vesicles. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 292, 213-225		2
36	Mapping vesicle shapes into the phase diagram: A comparison of experiment and theory. <i>Physical Review E</i> , 1997 , 55, 4458-4474	2.4	179
35	Fluid bilayer vesicles Statistical physics of soft two-dimensional surfaces. <i>Liquid Crystals Today</i> , 1997 , 7, 1-9	1.9	
34	Mesh Collapse in Two-Dimensional Elastic Networks under Compression. <i>Journal De Physique, I</i> , 1997 , 7, 1097-1111		8
33	Configurations of fluid membranes and vesicles. <i>Advances in Physics</i> , 1997 , 46, 13-137	18.4	1290

32	Thermal shape fluctuations of fluid-phase phospholipid-bilayer membranes and vesicles. <i>Journal of Molecular Liquids</i> , 1997 , 71, 195-207	6	14
31	Effects of Fully and Partially Solubilized Amphiphiles on Bilayer Bending Stiffness and Temperature Dependence of the Effective Tension of Giant Vesicles. <i>Journal De Physique II</i> , 1997 , 7, 1141-1157		32
30	Starfish vesicles. <i>Europhysics Letters</i> , 1996 , 33, 403-408	1.6	76
29	Fluid Vesicles in Shear Flow. <i>Physical Review Letters</i> , 1996 , 77, 3685-3688	7.4	274
28	Front Propagation in the Pearling Instability of Tubular Vesicles. <i>Journal De Physique II</i> , 1996 , 6, 767-796		49
27	Morphology and dynamics of vesicles. <i>Current Opinion in Colloid and Interface Science</i> , 1996 , 1, 350-357	7.6	10
26	Straightening of Thermal Fluctuations in Semiflexible Polymers by Applied Tension. <i>Physical Review Letters</i> , 1996 , 77, 5389-5392	7.4	50
25	Role of Bilayer Tilt Difference in Equilibrium Membrane Shapes. <i>Physical Review Letters</i> , 1996 , 77, 5237-5240	7.4	75
24	Vesicular instabilities: The prolate-to-oblate transition and other shape instabilities of fluid bilayer membranes. <i>Physical Review E</i> , 1995 , 52, 6623-6634	2.4	60
23	Spinodal fluctuations of budding vesicles. <i>Physical Review Letters</i> , 1995 , 75, 3360-3363	7.4	38
22	Self-consistent theory of bound vesicles. <i>Physical Review Letters</i> , 1995 , 74, 5060-5063	7.4	59
21	Gravity-Induced Shape Transformations of Vesicles. <i>Europhysics Letters</i> , 1995 , 32, 431-436	1.6	44
20	Dynamical Theory of the Pearling Instability in Cylindrical Vesicles. <i>Physical Review Letters</i> , 1995 , 74, 3384-3387	7.4	113
19	Relaxation modes of an adhering bilayer membrane. <i>Journal De Physique II</i> , 1994 , 4, 1117-1134		25
18	Budding transitions of fluid-bilayer vesicles: The effect of area-difference elasticity. <i>Physical Review E</i> , 1994 , 49, 5389-5407	2.4	396
17	Shape equations for axisymmetric vesicles: A clarification. <i>Physical Review E</i> , 1994 , 49, 4728-4731	2.4	78
16	Hydrodynamics of membranes: the bilayer aspect and adhesion. <i>Biophysical Chemistry</i> , 1994 , 49, 13-22	3.5	37
15	Dynamics of a bound membrane. <i>Physical Review E</i> , 1994 , 49, 3124-3127	2.4	44

14	Hydrodynamics of a membrane bound to a substrate. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 457-460		
13	Viscous Modes of Fluid Bilayer Membranes. <i>Europhysics Letters</i> , 1993 , 23, 71-76	1.6	210
12	Conformal degeneracy and conformal diffusion of vesicles. <i>Physical Review Letters</i> , 1993 , 71, 452-455	7.4	49
11	Negative Poisson ratio in two-dimensional networks under tension. <i>Physical Review E</i> , 1993 , 48, 4274-4284	7.4	76
10	Curvature-induced lateral phase segregation in two-component vesicles. <i>Physical Review Letters</i> , 1993 , 70, 1335-1338	7.4	162
9	Phase diagrams and shape transformations of toroidal vesicles. <i>Journal De Physique II</i> , 1993 , 3, 1681-1705		18
8	Dual network model for red blood cell membranes. <i>Physical Review Letters</i> , 1992 , 69, 3405-3408	7.4	47
7	Shape transformations of vesicles: Phase diagram for spontaneous- curvature and bilayer-coupling models. <i>Physical Review A</i> , 1991 , 44, 1182-1202	2.6	699
6	Vesicles of toroidal topology. <i>Physical Review Letters</i> , 1991 , 66, 2404-2407	7.4	68
5	Adhesion of vesicles in two dimensions. <i>Physical Review A</i> , 1991 , 43, 6803-6814	2.6	111
4	Adhesion of Vesicles and Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 1991 , 202, 17-25		138
3	Adhesion of membranes: a theoretical perspective. <i>Langmuir</i> , 1991 , 7, 1867-1873	4	68
2	Shape Transformations of Giant Vesicles: Extreme Sensitivity to Bilayer Asymmetry. <i>Europhysics Letters</i> , 1990 , 13, 659-664	1.6	215
1	Adhesion of vesicles. <i>Physical Review A</i> , 1990 , 42, 4768-4771	2.6	420