

# Udo Seifert

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6831883/publications.pdf>

Version: 2024-02-01

198  
papers

18,721  
citations

13099

68  
h-index

12272

133  
g-index

198  
all docs

198  
docs citations

198  
times ranked

7200  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Two Scaling Regimes of the Thermodynamic Uncertainty Relation for the KPZ-Equation. Journal of Statistical Physics, 2022, 186, 1.	1.2	5
2	Phase shift in periodically driven non-equilibrium systems: its identification and a bound. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 033207.	2.3	2
3	Operationally accessible uncertainty relations for thermodynamically consistent semi-Markov processes. Physical Review E, 2022, 105, 044113.	2.1	7
4	Coherence of oscillations in the weak-noise limit. Physical Review E, 2022, 105, .	2.1	2
5	Universal minimal cost of coherent biochemical oscillations. Physical Review E, 2022, 106, .	2.1	9
6	Propagator for a driven Brownian particle in step potentials. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 065002.	2.1	2
7	Stochastic Discrete Time Crystals: Entropy Production and Subharmonic Synchronization. Physical Review Letters, 2021, 126, 020603.	7.8	7
8	Optimality of nonconservative driving for finite-time processes with discrete states. Physical Review E, 2021, 103, L050105.	2.1	11
9	Quality of the thermodynamic uncertainty relation for fast and slow driving. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 414005.	2.1	4
10	Numerical Study of the Thermodynamic Uncertainty Relation for the KPZ-Equation. Journal of Statistical Physics, 2021, 182, 1.	1.2	6
11	Entropy and the second law for driven, or quenched, thermally isolated systems. Physica A: Statistical Mechanics and Its Applications, 2020, 552, 121822.	2.6	4
12	Free diffusion bounds the precision of currents in underdamped dynamics. Physical Review E, 2020, 102, 012120.	2.1	19
13	Exponential volume dependence of entropy-current fluctuations at first-order phase transitions in chemical reaction networks. Physical Review E, 2020, 102, 022101.	2.1	8
14	Stochastic thermodynamics of chemical reactions coupled to finite reservoirs: A case study for the Brusselator. Journal of Chemical Physics, 2020, 152, 235101.	3.0	6
15	Field-Theoretic Thermodynamic Uncertainty Relation. Journal of Statistical Physics, 2020, 178, 1142-1174.	1.2	16
16	Thermodynamic Uncertainty Relation for Time-Dependent Driving. Physical Review Letters, 2020, 125, 260604.	7.8	86
17	Interlinked GTPase cascades provide a motif for both robust switches and oscillators. Journal of the Royal Society Interface, 2019, 16, 20190198.	3.4	6
18	Subharmonic oscillations in stochastic systems under periodic driving. Physical Review E, 2019, 100, 012135.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Statistical Mechanics of an Elastically Pinned Membrane: Equilibrium Dynamics and Power Spectrum. <i>Biophysical Journal</i> , 2019, 117, 542-552.	0.5	6
20	Affinity-dependent bound on the spectrum of stochastic matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 405002.	2.1	3
21	Operationally Accessible Bounds on Fluctuations and Entropy Production in Periodically Driven Systems. <i>Physical Review Letters</i> , 2019, 122, 230601.	7.8	61
22	Effect of a magnetic field on the thermodynamic uncertainty relation. <i>Physical Review E</i> , 2019, 99, 042128.	2.1	44
23	Autonomous Engines Driven by Active Matter: Energetics and Design Principles. <i>Physical Review X</i> , 2019, 9, .	8.9	62
24	A generalization of the thermodynamic uncertainty relation to periodically driven systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 02LT02.	2.1	77
25	Statistical Mechanics of an Elastically Pinned Membrane: Static Profile and Correlations. <i>Biophysical Journal</i> , 2019, 116, 283-295.	0.5	12
26	From Stochastic Thermodynamics to Thermodynamic Inference. <i>Annual Review of Condensed Matter Physics</i> , 2019, 10, 171-192.	14.5	127
27	Large deviation function for a driven underdamped particle in a periodic potential. <i>Physical Review E</i> , 2018, 97, 022143.	2.1	42
28	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.	2.3	20
29	Stochastic thermodynamics: From principles to the cost of precision. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 504, 176-191.	2.6	66
30	Entropy production of active particles and for particles in active baths. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 01LT01.	2.1	85
31	Force-dependent diffusion coefficient of molecular Brownian ratchets. <i>Physical Review E</i> , 2018, 98, 022402.	2.1	6
32	Phase transition in thermodynamically consistent biochemical oscillators. <i>Journal of Chemical Physics</i> , 2018, 149, 045101.	3.0	28
33	Universal Trade-Off between Power, Efficiency, and Constancy in Steady-State Heat Engines. <i>Physical Review Letters</i> , 2018, 120, 190602.	7.8	253
34	Stochastic Thermodynamics of Learning. <i>Physical Review Letters</i> , 2017, 118, 010601.	7.8	39
35	Membrane fluctuations mediate lateral interaction between cadherin bonds. <i>Nature Physics</i> , 2017, 13, 906-913.	16.7	84
36	Thermodynamic Bounds on the Ultra- and Infra-affinity of Hsp70 for Its Substrates. <i>Biophysical Journal</i> , 2017, 113, 362-370.	0.5	12

#	ARTICLE	IF	CITATIONS
37	Thermodynamic cost of external control. <i>New Journal of Physics</i> , 2017, 19, 073021.	2.9	27
38	Universal Coherence-Induced Power Losses of Quantum Heat Engines in Linear Response. <i>Physical Review Letters</i> , 2017, 119, 170602.	7.8	93
39	Coherence of biochemical oscillations is bounded by driving force and network topology. <i>Physical Review E</i> , 2017, 95, 062409.	2.1	36
40	Finite-time generalization of the thermodynamic uncertainty relation. <i>Physical Review E</i> , 2017, 96, 012101.	2.1	156
41	Radial Growth in 2D Revisited: The Effect of Finite Density, Binding Affinity, Reaction Rates, and Diffusion. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600310.	3.7	4
42	Thermodynamic efficiency of learning a rule in neural networks. <i>New Journal of Physics</i> , 2017, 19, 113001.	2.9	7
43	Extreme fluctuations of active Brownian motion. <i>New Journal of Physics</i> , 2016, 18, 052001.	2.9	29
44	Energetics of synchronization in coupled oscillators rotating on circular trajectories. <i>Physical Review E</i> , 2016, 94, 052221.	2.1	10
45	Cost and Precision of Brownian Clocks. <i>Physical Review X</i> , 2016, 6, .	8.9	99
46	Universal bound on the efficiency of molecular motors. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 124004.	2.3	115
47	Dynamic Optical Displacement Spectroscopy to Quantify Biomembrane Bending Fluctuations. <i>Biophysical Journal</i> , 2016, 110, 487a.	0.5	0
48	Membrane Mediated Cooperativity Facilitates Cadherin Clustering in Model Membranes. <i>Biophysical Journal</i> , 2016, 110, 190a.	0.5	0
49	Nanometric thermal fluctuations of weakly confined biomembranes measured with microsecond time-resolution. <i>Soft Matter</i> , 2016, 12, 4755-4768.	2.7	21
50	Affinity- and topology-dependent bound on current fluctuations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 34LT01.	2.1	35
51	Optimal performance of periodically driven, stochastic heat engines under limited control. <i>Physical Review E</i> , 2016, 93, 042112.	2.1	61
52	Universal bounds on current fluctuations. <i>Physical Review E</i> , 2016, 93, 052145.	2.1	184
53	Periodic thermodynamics of open quantum systems. <i>Physical Review E</i> , 2016, 93, 062134.	2.1	93
54	Sensory capacity: An information theoretical measure of the performance of a sensor. <i>Physical Review E</i> , 2016, 93, 022116.	2.1	47

#	ARTICLE	IF	CITATIONS
55	First and Second Law of Thermodynamics at Strong Coupling. <i>Physical Review Letters</i> , 2016, 116, 020601.	7.8	138
56	Optimal inference strategies and their implications for the linear noise approximation. <i>Physical Review E</i> , 2016, 94, 042416.	2.1	7
57	Stochastic thermodynamics of resetting. <i>Europhysics Letters</i> , 2016, 113, 60009.	2.0	94
58	Focus on stochastic thermodynamics. <i>New Journal of Physics</i> , 2016, 18, 020401.	2.9	13
59	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.	2.1	13
60	Skewness and Kurtosis in Statistical Kinetics. <i>Physical Review Letters</i> , 2015, 115, 188103.	7.8	20
61	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	25
62	Thermodynamics of Micro- and Nano-Systems Driven by Periodic Temperature Variations. <i>Physical Review X</i> , 2015, 5, .	8.9	136
63	Bound on thermoelectric power in a magnetic field within linear response. <i>Physical Review E</i> , 2015, 91, 012121.	2.1	46
64	Effective rates from thermodynamically consistent coarse-graining of models for molecular motors with probe particles. <i>Physical Review E</i> , 2015, 91, 022709.	2.1	29
65	Deformation of phospholipid vesicles in an optical stretcher. <i>Soft Matter</i> , 2015, 11, 6075-6088.	2.7	38
66	Nonequilibrium sensing and its analogy to kinetic proofreading. <i>New Journal of Physics</i> , 2015, 17, 055026.	2.9	44
67	Thermodynamic Uncertainty Relation for Biomolecular Processes. <i>Physical Review Letters</i> , 2015, 114, 158101.	7.8	571
68	Universal Bound on the Fano Factor in Enzyme Kinetics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6555-6561.	2.6	72
69	Crowding of receptors induces ring-like adhesions in model membranes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2984-2991.	4.1	16
70	Single-molecule measurement of the effective temperature in non-equilibrium steady states. <i>Nature Physics</i> , 2015, 11, 971-977.	16.7	66
71	Coherence-enhanced efficiency of feedback-driven quantum engines. <i>New Journal of Physics</i> , 2015, 17, 065006.	2.9	71
72	Optimized finite-time information machine. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P09010.	2.3	9

#	ARTICLE	IF	CITATIONS
73	Efficiency of cellular information processing. <i>New Journal of Physics</i> , 2014, 16, 103024.	2.9	120
74	Stochastic thermodynamics with information reservoirs. <i>Physical Review E</i> , 2014, 90, 042150.	2.1	59
75	Association Rates of Membrane-Coupled Cell Adhesion Molecules. <i>Biophysical Journal</i> , 2014, 107, L33-L36.	0.5	19
76	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, .	8.9	10
77	Wrinkling instability of vesicles in steady linear flow. <i>Europhysics Letters</i> , 2014, 107, 28001.	2.0	4
78	Fluid vesicles in flow. <i>Advances in Colloid and Interface Science</i> , 2014, 208, 129-141.	14.7	84
79	Stochastic thermodynamics of bipartite systems: transfer entropy inequalities and a Maxwell's demon interpretation. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P02016.	2.3	136
80	Classical Nernst engine. <i>Physical Review Letters</i> , 2014, 112, 140601.	7.8	35
81	Fine-structured large deviations and the fluctuation theorem: Molecular motors and beyond. <i>Europhysics Letters</i> , 2014, 107, 20002.	2.0	20
82	Crystallization in a sheared colloidal suspension. <i>Journal of Chemical Physics</i> , 2013, 138, 224907.	3.0	28
83	Rate of Mutual Information Between Coarse-Grained Non-Markovian Variables. <i>Journal of Statistical Physics</i> , 2013, 153, 460-478.	1.2	33
84	Strong Bounds on Onsager Coefficients and Efficiency for Three-Terminal Thermoelectric Transport in a Magnetic Field. <i>Physical Review Letters</i> , 2013, 110, 070603.	7.8	140
85	Noisy Nonlinear Dynamics of Vesicles in Flow. <i>Physical Review Letters</i> , 2013, 110, 238103.	7.8	24
86	An autonomous and reversible Maxwell's demon. <i>Europhysics Letters</i> , 2013, 101, 60001.	2.0	86
87	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	75
88	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	45
89	Efficiency of a Brownian information machine. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 162001.	2.1	53
90	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.	2.1	12

#	ARTICLE	IF	CITATIONS
91	Effective tension and fluctuations in active membranes. <i>Physical Review E</i> , 2012, 85, 031913.	2.1	30
92	Nucleation of Ligand-Receptor Domains in Membrane Adhesion. <i>Physical Review Letters</i> , 2012, 109, 258101.	7.8	56
93	Effect of thermal noise on vesicles and capsules in shear flow. <i>Physical Review E</i> , 2012, 86, 010902.	2.1	11
94	Coexistence of dilute and densely packed domains of ligand-receptor bonds in membrane adhesion. <i>Europhysics Letters</i> , 2012, 99, 38003.	2.0	24
95	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.	2.3	41
96	Stochastic thermodynamics, fluctuation theorems and molecular machines. <i>Reports on Progress in Physics</i> , 2012, 75, 126001.	20.1	2,247
97	Role of Hidden Slow Degrees of Freedom in the Fluctuation Theorem. <i>Physical Review Letters</i> , 2012, 108, 220601.	7.8	82
98	Dynamics and efficiency of a self-propelled, diffusiophoretic swimmer. <i>Journal of Chemical Physics</i> , 2012, 136, 064508.	3.0	92
99	Nonlinear, electrocatalytic swimming in the presence of salt. <i>Journal of Chemical Physics</i> , 2012, 136, 214507.	3.0	51
100	Thermodynamics of Genuine Nonequilibrium States under Feedback Control. <i>Physical Review Letters</i> , 2012, 108, 030601.	7.8	97
101	Extracting work from a single heat bath through feedback. <i>Europhysics Letters</i> , 2011, 94, 10001.	2.0	123
102	Stochastic thermodynamics of single enzymes and molecular motors. <i>European Physical Journal E</i> , 2011, 34, 26.	1.6	92
103	Switching from Ultraweak to Strong Adhesion. <i>Advanced Materials</i> , 2011, 23, 2622-2626.	21.0	24
104	Two intertwined facets of adherent membranes: membrane roughness and correlations between ligand-receptors bonds. <i>New Journal of Physics</i> , 2011, 13, 025003.	2.9	25
105	Thermodynamic theory of phase transitions in driven lattice gases. <i>Physical Review E</i> , 2011, 84, 051130.	2.1	5
106	Approximate thermodynamic structure for driven lattice gases in contact. <i>Physical Review E</i> , 2011, 84, 041104.	2.1	29
107	Efficiency of Autonomous Soft Nanomachines at Maximum Power. <i>Physical Review Letters</i> , 2011, 106, 020601.	7.8	114
108	Diffusing proteins on a fluctuating membrane: Analytical theory and simulations. <i>Physical Review E</i> , 2010, 81, 031903.	2.1	46

#	ARTICLE	IF	CITATIONS
109	Nonequilibrium Steady States in Contact: Approximate Thermodynamic Structure and Zeroth Law for Driven Lattice Gases. <i>Physical Review Letters</i> , 2010, 105, 150601.	7.8	22
110	Generalized Einstein or Green-Kubo Relations for Active Biomolecular Transport. <i>Physical Review Letters</i> , 2010, 104, 138101.	7.8	29
111	Fluctuation-dissipation theorem in nonequilibrium steady states. <i>Europhysics Letters</i> , 2010, 89, 10007.	2.0	201
112	Communications: Can one identify nonequilibrium in a three-state system by analyzing two-state trajectories?. <i>Journal of Chemical Physics</i> , 2010, 132, 041102.	3.0	18
113	Efficiency of Surface-Driven Motion: Nanoswimmers Beat Microswimmers. <i>Physical Review Letters</i> , 2010, 105, 218103.	7.8	50
114	Specific adhesion of membranes: Mapping to an effective bond lattice gas. <i>Physical Review E</i> , 2010, 82, 021923.	2.1	30
115	Experimental accessibility of generalized fluctuation-dissipation relations for nonequilibrium steady states. <i>Physical Review E</i> , 2010, 82, 032401.	2.1	38
116	Optimal potentials for temperature ratchets. <i>Physical Review E</i> , 2009, 79, 031118.	2.1	16
117	Extended fluctuation-dissipation theorem for soft matter in stationary flow. <i>Physical Review E</i> , 2009, 79, 040102.	2.1	47
118	Optimal protocols for Hamiltonian and Schrödinger dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07013.	2.3	16
119	Stochastic thermodynamics: principles and perspectives. <i>European Physical Journal B</i> , 2008, 64, 423-431.	1.5	383
120	Two-dimensional fluctuating vesicles in linear shear flow. <i>European Physical Journal E</i> , 2008, 25, 309-321.	1.6	51
121	Large deviation function for entropy production in driven one-dimensional systems. <i>Physical Review E</i> , 2008, 78, 011123.	2.1	63
122	Curvature Coupling Dependence of Membrane Protein Diffusion Coefficients. <i>Langmuir</i> , 2008, 24, 1254-1261.	3.5	36
123	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, 6906-6911.	7.1	124
124	Optimal protocols for minimal work processes in underdamped stochastic thermodynamics. <i>Journal of Chemical Physics</i> , 2008, 129, 024114.	3.0	101
125	Efficiency of molecular motors at maximum power. <i>Europhysics Letters</i> , 2008, 83, 30005.	2.0	111
126	Dynamics of Specific Vesicle-Substrate Adhesion: From Local Events to Global Dynamics. <i>Physical Review Letters</i> , 2008, 101, 208103.	7.8	60



#	ARTICLE	IF	CITATIONS
127	Role of External Flow and Frame Invariance in Stochastic Thermodynamics. <i>Physical Review Letters</i> , 2008, 100, 178302.	7.8	47
128	Swinging and tumbling of elastic capsules in shear flow. <i>Journal of Fluid Mechanics</i> , 2008, 605, 207-226.	3.4	111
129	Distribution of entropy production for a colloidal particle in a nonequilibrium steady state. <i>Europhysics Letters</i> , 2007, 79, 30002.	2.0	69
130	Stochastic thermodynamics of chemical reaction networks. <i>Journal of Chemical Physics</i> , 2007, 126, 044101.	3.0	136
131	Optimal Finite-Time Processes In Stochastic Thermodynamics. <i>Physical Review Letters</i> , 2007, 98, 108301.	7.8	273
132	Einstein Relation Generalized to Nonequilibrium. <i>Physical Review Letters</i> , 2007, 98, 210601.	7.8	137
133	Hybrid simulations of lateral diffusion in fluctuating membranes. <i>Physical Review E</i> , 2007, 75, 011908.	2.1	43
134	Giant Vesicles: A Theoretical Perspective. <i>Perspectives in Supramolecular Chemistry</i> , 2007, , 71-91.	0.1	0
135	Vesicles as a model for controlled (de-)adhesion of cells: a thermodynamic approach. <i>Soft Matter</i> , 2007, 3, 275-289.	2.7	46
136	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.	2.3	72
137	Entropy Production for Mechanically or Chemically Driven Biomolecules. <i>Journal of Statistical Physics</i> , 2007, 128, 77-93.	1.2	49
138	Adhesion of Microcapsules. <i>Langmuir</i> , 2006, 22, 7117-7119.	3.5	10
139	Antagonist-Induced Deadhesion of Specifically Adhered Vesicles. <i>Biophysical Journal</i> , 2006, 90, 1064-1080.	0.5	29
140	Wrinkling of microcapsules in shear flow. <i>Journal of Physics Condensed Matter</i> , 2006, 18, L185-L191.	1.8	45
141	Restoring a fluctuation-dissipation theorem in a nonequilibrium steady state. <i>Europhysics Letters</i> , 2006, 74, 391-396.	2.0	200
142	Nonmonotonic fluctuation spectra of membranes pinned or tethered discretely to a substrate. <i>Physical Review E</i> , 2006, 73, 010401.	2.1	20
143	Force spectroscopy of single multidomain biopolymers: A master equation approach. <i>European Physical Journal E</i> , 2005, 18, 1-13.	1.6	7
144	Lateral diffusion of a protein on a fluctuating membrane. <i>Europhysics Letters</i> , 2005, 71, 859-865.	2.0	71

#	ARTICLE	IF	CITATIONS
145	Effective adhesion strength of specifically bound vesicles. <i>Physical Review E</i> , 2005, 71, 061902.	2.1	46
146	Experimental Test of the Fluctuation Theorem for a Driven Two-Level System with Time-Dependent Rates. <i>Physical Review Letters</i> , 2005, 94, 180602.	7.8	131
147	Entropy Production along a Stochastic Trajectory and an Integral Fluctuation Theorem. <i>Physical Review Letters</i> , 2005, 95, 040602.	7.8	1,129
148	Force-Induced De-Adhesion of Specifically Bound Vesicles: A Strong Adhesion in Competition with Tether Extraction. <i>Langmuir</i> , 2005, 21, 11357-11367.	3.5	8
149	Fluctuation theorem for a single enzym or molecular motor. <i>Europhysics Letters</i> , 2005, 70, 36-41.	2.0	81
150	Pulling Tethers from Adhered Vesicles. <i>Physical Review Letters</i> , 2004, 92, 208101.	7.8	67
151	Probing Molecular Free Energy Landscapes by Periodic Loading. <i>Physical Review Letters</i> , 2004, 93, 158105.	7.8	57
152	Fluctuation theorem for birth-death or chemical master equations with time-dependent rates. <i>Journal of Physics A</i> , 2004, 37, L517-L521.	1.6	48
153	Distribution of work in isothermal nonequilibrium processes. <i>Physical Review E</i> , 2004, 70, 066112.	2.1	80
154	Dynamic strength of adhesion molecules: Role of rebinding and self-consistent rates. <i>Europhysics Letters</i> , 2002, 58, 792-798.	2.0	74
155	Influence of shear flow on vesicles near a wall: A numerical study. <i>Physical Review E</i> , 2001, 64, 011916.	2.1	113
156	Rupture of Multiple Parallel Molecular Bonds under Dynamic Loading. <i>Physical Review Letters</i> , 2000, 84, 2750-2753.	7.8	231
157	Highly Ordered Size-Dispersive Packings of Polydisperse Microgel Spheres. <i>Langmuir</i> , 2000, 16, 7634-7639.	3.5	21
158	Hydrodynamic Lift on Bound Vesicles. <i>Physical Review Letters</i> , 1999, 83, 876-879.	7.8	76
159	Escape from a metastable well under a time-ramped force. <i>Physical Review E</i> , 1998, 57, 7301-7304.	2.1	30
160	Modeling Nonlinear Red Cell Elasticity. <i>Biophysical Journal</i> , 1998, 75, 1141-1142.	0.5	8
161	Thermally Induced Proliferation of Pores in a Model Fluid Membrane. <i>Biophysical Journal</i> , 1998, 74, 1754-1766.	0.5	51
162	Dynamics of Giant Vesicles. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 292, 213-225.	0.3	2

#	ARTICLE	IF	CITATIONS
163	Mapping vesicle shapes into the phase diagram: A comparison of experiment and theory. <i>Physical Review E</i> , 1997, 55, 4458-4474.	2.1	201
164	Fluid bilayer vesicles Statistical physics of soft two-dimensional surfaces. <i>Liquid Crystals Today</i> , 1997, 7, 1-9.	2.3	0
165	Mesh Collapse in Two-Dimensional Elastic Networks under Compression. <i>Journal De Physique</i> , I, 1997, 7, 1097-1111.	1.2	9
166	Configurations of fluid membranes and vesicles. <i>Advances in Physics</i> , 1997, 46, 13-137.	14.4	1,444
167	Thermal shape fluctuations of fluid-phase phospholipid-bilayer membranes and vesicles. <i>Journal of Molecular Liquids</i> , 1997, 71, 195-207.	4.9	15
168	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.	0.9	37
169	Starfish vesicles. <i>Europhysics Letters</i> , 1996, 33, 403-408.	2.0	81
170	Fluid Vesicles in Shear Flow. <i>Physical Review Letters</i> , 1996, 77, 3685-3688.	7.8	324
171	Front Propagation in the Pearling Instability of Tubular Vesicles. <i>Journal De Physique II</i> , 1996, 6, 767-796.	0.9	55
172	Morphology and dynamics of vesicles. <i>Current Opinion in Colloid and Interface Science</i> , 1996, 1, 350-357.	7.4	11
173	Straightening of Thermal Fluctuations in Semiflexible Polymers by Applied Tension. <i>Physical Review Letters</i> , 1996, 77, 5389-5392.	7.8	55
174	Role of Bilayer Tilt Difference in Equilibrium Membrane Shapes. <i>Physical Review Letters</i> , 1996, 77, 5237-5240.	7.8	82
175	Vesicular instabilities: The prolate-to-oblate transition and other shape instabilities of fluid bilayer membranes. <i>Physical Review E</i> , 1995, 52, 6623-6634.	2.1	72
176	Spinodal Fluctuations of Budding Vesicles. <i>Physical Review Letters</i> , 1995, 75, 3360-3363.	7.8	45
177	Self-Consistent Theory of Bound Vesicles. <i>Physical Review Letters</i> , 1995, 74, 5060-5063.	7.8	65
178	Gravity-Induced Shape Transformations of Vesicles. <i>Europhysics Letters</i> , 1995, 32, 431-436.	2.0	50
179	Dynamical Theory of the Pearling Instability in Cylindrical Vesicles. <i>Physical Review Letters</i> , 1995, 74, 3384-3387.	7.8	122
180	Relaxation modes of an adhering bilayer membrane. <i>Journal De Physique II</i> , 1994, 4, 1117-1134.	0.9	26

#	ARTICLE	IF	CITATIONS
181	Budding transitions of fluid-bilayer vesicles: The effect of area-difference elasticity. <i>Physical Review E</i> , 1994, 49, 5389-5407.	2.1	440
182	Shape equations for axisymmetric vesicles: A clarification. <i>Physical Review E</i> , 1994, 49, 4728-4731.	2.1	96
183	Hydrodynamics of membranes: the bilayer aspect and adhesion. <i>Biophysical Chemistry</i> , 1994, 49, 13-22.	2.8	44
184	Dynamics of a bound membrane. <i>Physical Review E</i> , 1994, 49, 3124-3127.	2.1	46
185	Hydrodynamics of a membrane bound to a substrate. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994, 98, 457-460.	0.9	0
186	Viscous Modes of Fluid Bilayer Membranes. <i>Europhysics Letters</i> , 1993, 23, 71-76.	2.0	249
187	Conformal degeneracy and conformal diffusion of vesicles. <i>Physical Review Letters</i> , 1993, 71, 452-455.	7.8	51
188	Negative Poisson ratio in two-dimensional networks under tension. <i>Physical Review E</i> , 1993, 48, 4274-4283.	2.1	87
189	Curvature-induced lateral phase segregation in two-component vesicles. <i>Physical Review Letters</i> , 1993, 70, 1335-1338.	7.8	171
190	Phase diagrams and shape transformations of toroidal vesicles. <i>Journal De Physique II</i> , 1993, 3, 1681-1705.	0.9	22
191	Dual network model for red blood cell membranes. <i>Physical Review Letters</i> , 1992, 69, 3405-3408.	7.8	58
192	Adhesion of membranes: a theoretical perspective. <i>Langmuir</i> , 1991, 7, 1867-1873.	3.5	79
193	Shape transformations of vesicles: Phase diagram for spontaneous- curvature and bilayer-coupling models. <i>Physical Review A</i> , 1991, 44, 1182-1202.	2.5	796
194	Vesicles of toroidal topology. <i>Physical Review Letters</i> , 1991, 66, 2404-2407.	7.8	73
195	Adhesion of vesicles in two dimensions. <i>Physical Review A</i> , 1991, 43, 6803-6814.	2.5	123
196	Adhesion of Vesicles and Membranes. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 202, 17-25.	0.7	157
197	Shape Transformations of Giant Vesicles: Extreme Sensitivity to Bilayer Asymmetry. <i>Europhysics Letters</i> , 1990, 13, 659-664.	2.0	230
198	Adhesion of vesicles. <i>Physical Review A</i> , 1990, 42, 4768-4771.	2.5	457