Gerhard Gompper

List of Publications by Year
in descending order

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370 papers	19,742 citations	9786 73 h-index	17592 121 g-index
392 all docs	392 docs citations	392 times ranked	10538 citing authors

#	Article	IF	Citations
1	Physics of microswimmersâ€”single particle motion and collective behavior: a review. Reports on Progress in Physics, 2015, 78, 056601.	20.1	1,029
2	Shape transitions of fluid vesicles and red blood cells in capillary flows. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14159-14164.	7.1	481
3	Mobility and Elasticity of Self-Assembled Membranes. Physical Review Letters, 1999, 82, 221-224.	7.8	457
4	Shape and Orientation Matter for the Cellular Uptake of Nonspherical Particles. Nano Letters, 2014, 14, 687-693.	9.1	432
5	Emergence of metachronal waves in cilia arrays. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4470-4475.	7.1	313
6	Predicting human blood viscosity in silico. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11772-11777.	7.1	278
7	Flow-induced clustering and alignment of vesicles and red blood cells in microcapillaries. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6039-6043.	7.1	256
8	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	1.8	242
9	Fluid Vesicles with Viscous Membranes in Shear Flow. Physical Review Letters, 2004, 93, 258102.	7.8	234
10	Equilibrium physics breakdown reveals the active nature of red blood cell flickering. Nature Physics, 2016, 12, 513-519.	16.7	231
11	Margination of micro- and nano-particles in blood flow and its effect on drug delivery. Scientific Reports, 2014, 4, 4871.	3.3	228
12	Wall accumulation of self-propelled spheres. Europhysics Letters, 2013, 101, 48003.	2.0	221
13	Cooperative motion of active Brownian spheres in three-dimensional dense suspensions. Europhysics Letters, 2014, 105, 48004.	2.0	201
14	Multi-particle collision dynamics: Flow around a circular and a square cylinder. Europhysics Letters, 2001, 56, 319-325.	2.0	200
15	Multiscale modeling of blood flow: from single cells to blood rheology. Biomechanics and Modeling in Mechanobiology, 2014, 13, 239-258.	2.8	200
16	Hydrodynamics of Sperm Cells near Surfaces. Biophysical Journal, 2010, 99, 1018-1026.	0.5	197
17	Correlation between structural and interfacial properties of amphiphilic systems. Physical Review Letters, 1990, 65, 1116-1119.	7.8	195
18	Computational models for activeÂmatter. Nature Reviews Physics, 2020, 2, 181-199.	26.6	192

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19	Dynamics of fluid vesicles in shear flow: Effect of membrane viscosity and thermal fluctuations. Physical Review E, 2005, 72, 011901.	2.1	184
20	Budding Dynamics of Multicomponent Membranes. Physical Review Letters, 2001, 86, 3911-3914.	7.8	181
21	Red cellsâ€™ dynamic morphologies govern blood shear thinning under microcirculatory flow conditions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13289-13294.	7.1	179
22	Swinging and Tumbling of Fluid Vesicles in Shear Flow. Physical Review Letters, 2007, 98, 128103.	7.8	164
23	Cooperation of sperm in two dimensions: Synchronization, attraction, and aggregation through hydrodynamic interactions. Physical Review E, 2008, 78, 061903.	2.1	164
24	Multi-Particle Collision Dynamics: A Particle-Based Mesoscale Simulation Approach to the Hydrodynamics of Complex Fluids. , 2009, , 1-87.		164
25	Swarm behavior of self-propelled rods and swimming flagella. Physical Review E, 2010, 82, 031904.	2.1	162
26	Semidilute Polymer Solutions at Equilibrium and under Shear Flow. Macromolecules, 2010, 43, 10107-10116.	4.8	154
27	Deformation and dynamics of red blood cells in flow through cylindrical microchannels. Soft Matter, 2014, 10, 4258-4267.	2.7	147
28	Forced crumpling of self-avoiding elastic sheets. Nature Materials, 2006, 5, 216-221.	27.5	145
29	Low-Reynolds-number hydrodynamics of complex fluids by multi-particle-collision dynamics. Europhysics Letters, 2004, 68, 106-112.	2.0	144
30	Dynamic regimes of fluids simulated by multiparticle-collision dynamics. Physical Review E, 2005, 72, 016701.	2.1	142
31	Self-propelled rods near surfaces. Europhysics Letters, 2009, 85, 38002.	2.0	142
32	Star Polymers in Shear Flow. Physical Review Letters, 2006, 96, 188302.	7.8	138
33	Dynamics of polymers in a particle-based mesoscopic solvent. Journal of Chemical Physics, 2005, 123, 144905.	3.0	133
34	Virial pressure in systems of spherical active Brownian particles. Soft Matter, 2015, 11, 6680-6691.	2.7	123
35	Mesoscale simulations of hydrodynamic squirmer interactions. Physical Review E, 2010, 82, 041921.	2.1	122
36	Active turbulence in a gas of self-assembled spinners. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12870-12875.	7.1	118

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37	Network models of fluid, hexatic and polymerized membranes. Journal of Physics Condensed Matter, 1997, 9, 8795-8834.	1.8	117
38	Self-propelled worm-like filaments: spontaneous spiral formation, structure, and dynamics. Soft Matter, 2015, 11, 7181-7190.	2.7	117
39	Active particles induce large shape deformations in giant lipid vesicles. Nature, 2020, 586, 52-56.	27.8	116
40	Cell-level canonical sampling by velocity scaling for multiparticle collision dynamics simulations. Journal of Computational Physics, 2010, 229, 168-177.	3.8	115
41	The conformation of fluid membranes: Monte Carlo simulations. Science, 1992, 255, 968-971.	12.6	113
42	Lattice model of microemulsions. Physical Review B, 1990, 41, 9148-9162.	3.2	112
43	Mesoscopic solvent simulations: Multiparticle-collision dynamics of three-dimensional flows. Physical Review E, 2002, 66, 036702.	2.1	112
44	Margination of White Blood Cells in Microcapillary Flow. Physical Review Letters, 2012, 108, 028104.	7.8	111
45	Synchronization and bundling of anchored bacterial flagella. Soft Matter, 2012, 8, 4363.	2.7	111
46	Confined active Brownian particles: theoretical description of propulsion-induced accumulation. New Journal of Physics, 2018, 20, 015001.	2.9	111
47	Ginzburg-Landau theory of oil-water-surfactant mixtures. Physical Review A, 1992, 46, 4836-4851.	2.5	110
48	Wrapping of ellipsoidal nano-particles by fluid membranes. Soft Matter, 2013, 9, 5473-5482.	2.7	109
49	Effect of amphiphilic block copolymers on the structure and phase behavior of oilâ€“water-surfactant mixtures. Journal of Chemical Physics, 2001, 115, 580-600.	3.0	108
50	Particle-based mesoscale hydrodynamic techniques. Europhysics Letters, 2007, 78, 10005.	2.0	107
51	Free energy and extension of a semiflexible polymer in cylindrical confining geometries. Physical Review E, 2007, 76, 011804.	2.1	106
52	The computational sperm cell. Trends in Cell Biology, 2014, 24, 198-207.	7.9	106
53	Clustering of microswimmers: interplay of shape and hydrodynamics. Soft Matter, 2018, 14, 8590-8603.	2.7	105
54	Random Surface Discretizations and the Renormalization of the Bending Rigidity. Journal De Physique, I, 1996, 6, 1305-1320.	1.2	104

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55	Interfacing Electrogenic Cells with 3D Nanoelectrodes: Position, Shape, and Size Matter. ACS Nano, 2014, 8, 6713-6723.	14.6	101
56	Microemulsion structure from a three-component lattice model. Physical Review Letters, 1989, 62, 1647-1650.	7.8	98
57	White blood cell margination in microcirculation. Soft Matter, 2014, 10, 2961-2970.	2.7	97
58	Run-and-tumble dynamics of self-propelled particles in confinement. Europhysics Letters, 2015, 109, 58003.	2.0	97
59	Deterministic Lateral Displacement: Challenges and Perspectives. ACS Nano, 2020, 14, 10784-10795.	14.6	97
60	Conformational Properties of Active Semiflexible Polymers. Polymers, 2016, 8, 304.	4.5	95
61	Collective behavior of penetrable self-propelled rods in two dimensions. Physical Review E, 2013, 88, 062314.	2.1	94
62	Modelling the mechanics and hydrodynamics of swimming E. coli. Soft Matter, 2015, 11, 7867-7876.	2.7	94
63	Flow-Induced Transitions of Red Blood Cell Shapes under Shear. Physical Review Letters, 2018, 121, 118103.	7.8	93
64	Transport coefficients of off-lattice mesoscale-hydrodynamics simulation techniques. Physical Review E, 2008, 78, 016706.	2.1	90
65	Microvascular blood flow resistance: Role of red blood cell migration and dispersion. Microvascular Research, 2015, 99, 57-66.	2.5	90
66	Relevance of angular momentum conservation in mesoscale hydrodynamics simulations. Physical Review E, 2007, 76, 046705.	2.1	88
67	Dynamics of bicontinuous microemulsion phases with and without amphiphilic block-copolymers. Journal of Chemical Physics, 2001, 115, 9563-9577.	3.0	86
68	Meshless membrane model based on the moving least-squares method. Physical Review E, 2006, 73, 021903.	2.1	86
69	The physics of active polymers and filaments. Journal of Chemical Physics, 2020, 153, 040901.	3.0	86
70	Membrane-Wrapping Contributions to Malaria Parasite Invasion of the Human Erythrocyte. Biophysical Journal, 2014, 107, 43-54.	0.5	85
71	Membrane Decoration by Amphiphilic Block Copolymers in Bicontinuous Microemulsions. Physical Review Letters, 2000, 85, 102-105.	7.8	83
72	Attraction between DNA molecules mediated by multivalent ions. Physical Review E, 2004, 69, 041904.	2.1	83

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73	Active Polymers â€" Emergent Conformational and Dynamical Properties: A Brief Review. Journal of the Physical Society of Japan, 2017, 86, 101014.	1.6	79
74	Human sperm steer with second harmonics of the flagellar beat. Nature Communications, 2017, 8, 1415.	12.8	79
75	Dynamics of vesicle self-assembly and dissolution. Journal of Chemical Physics, 2006, 125, 164908.	3.0	78
76	Hydrodynamic screening of star polymers in shear flow. European Physical Journal E, 2007, 23, 349-354.	1.6	77
77	Physical Sensing of Surface Properties by Microswimmers â€" Directing Bacterial Motion via Wall Slip. Scientific Reports, 2015, 5, 9586.	3.3	77
78	Membranes with Fluctuating Topology: Monte Carlo Simulations. Physical Review Letters, 1998, 81, 2284-2287.	7.8	76
79	Modulated phases in multicomponent fluid membranes. Physical Review E, 1999, 60, 4610-4618.	2.1	74
80	Internal dynamics of semiflexible polymers with active noise. Journal of Chemical Physics, 2017, 146, 154903.	3.0	74
81	Steric Interactions in Multimembrane Systems: A Monte Carlo Study. Europhysics Letters, 1989, 9, 59-64.	2.0	73
82	Bending Frustration of Lipidâ^'Water Mesophases Based on Cubic Minimal Surfaces1. Langmuir, 2001, 17, 2084-2096.	3.5	72
83	Modeling a spheroidal microswimmer and cooperative swimming in a narrow slit. Soft Matter, 2016, 12, 7372-7385.	2.7	72
84	Attractive Colloidal Rods in Shear Flow. Physical Review Letters, 2008, 101, 168302.	7.8	71
85	Dynamical regimes and hydrodynamic lift of viscous vesicles under shear. Physical Review E, 2009, 80, 011901.	2.1	71
86	Fluctuations of a long, semiflexible polymer in a narrow channel. Physical Review E, 2010, 82, 041801.	2.1	71
87	Compression, crumpling and collapse of spherical shells and capsules. New Journal of Physics, 2011, 13, 045020.	2.9	71
88	Stability of Inverse Bicontinuous Cubic Phases in Lipid-Water Mixtures. Physical Review Letters, 2000, 85, 1472-1475.	7.8	70
89	Interface delocalization transitions in finite systems. Physical Review B, 1984, 29, 5213-5215.	3.2	69
90	Mechanical Deformation of Spherical Viruses with Icosahedral Symmetry. Biophysical Journal, 2006, 91, 834-841.	0.5	69

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91	Hydrodynamic correlations in multiparticle collision dynamics fluids. Physical Review E, 2012, 86, 056711.	2.1	69
92	Ginzburg-Landau theory of ternary amphiphilic systems. II. Monte Carlo simulations. Physical Review E, 1993, 47, 4301-4312.	2.1	68
93	Measuring bending rigidity and spatial renormalization in bicontinuous microemulsions. Europhysics Letters, 2001, 56, 683-689.	2.0	68
94	Dynamical and rheological properties of soft colloid suspensions. Current Opinion in Colloid and Interface Science, 2014, 19, 594-610.	7.4	68
95	Behavior of rigid and deformable particles in deterministic lateral displacement devices with different post shapes. Journal of Chemical Physics, 2015, 143, 243145.	3.0	67
96	Understanding particle margination in blood flow â€“ A step toward optimized drug delivery systems. Medical Engineering and Physics, 2016, 38, 2-10.	1.7	67
97	Ginzburg-Landau theory of ternary amphiphilic systems. I. Gaussian interface fluctuations. Physical Review E, 1993, 47, 4289-4300.	2.1	66
98	Rod-like colloids and polymers in shear flow: a multi-particle-collision dynamics study. Journal of Physics Condensed Matter, 2004, 16, S3941-S3954.	1.8	65
99	Advanced Flicker Spectroscopy of Fluid Membranes. Physical Review Letters, 2003, 91, 048301.	7.8	64
100	Direct observation of hydrodynamic instabilities in a driven non-uniform colloidal dispersion. Soft Matter, 2009, 5, 1340.	2.7	64
101	Budding and vesiculation induced by conical membrane inclusions. Physical Review E, 2009, 80, 031901.	2.1	64
102	Smoothed dissipative particle dynamics with angular momentum conservation. Journal of Computational Physics, 2015, 281, 301-315.	3.8	64
103	Microswimmers near surfaces. European Physical Journal: Special Topics, 2016, 225, 2333-2352.	2.6	64
104	Nano- and microparticles at fluid and biological interfaces. Journal of Physics Condensed Matter, 2017, 29, 373003.	1.8	64
105	Phase diagram and scaling behavior of fluid vesicles. Physical Review E, 1995, 51, 514-525.	2.1	63
106	Systematic approach to bicontinuous cubic phases in ternary amphiphilic systems. Physical Review E, 1999, 59, 5528-5541.	2.1	63
107	Budding of crystalline domains in fluid membranes. Physical Review E, 2003, 68, 061905.	2.1	63
108	Migration of semiflexible polymers in microcapillary flow. Europhysics Letters, 2010, 91, 14001.	2.0	63

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109	Deformation and clustering of red blood cells in microcapillary flows. Soft Matter, 2011, 7, 10967.	2.7	63
110	Collective dynamics of self-propelled semiflexible filaments. Soft Matter, 2018, 14, 4483-4494.	2.7	63
111	Synchronization, Slippage, and Unbundling of Driven Helical Flagella. PLoS ONE, 2013, 8, e70868.	2.5	61
112	Propagating interfaces in mixtures of active and passive Brownian particles. New Journal of Physics, 2016, 18, 123030.	2.9	61
113	Driven transport of fluid vesicles through narrow pores. Physical Review E, 1995, 52, 4198-4208.	2.1	60
114	Shapes of crystalline domains on spherical fluid vesicles. Europhysics Letters, 2005, 70, 136-142.	2.0	59
115	Giant Hexagonal Superstructures in Diblock-Copolymer Membranes. Physical Review Letters, 2002, 89, 238302.	7.8	58
116	Sorting cells by their dynamical properties. Scientific Reports, 2016, 6, 34375.	3.3	58
117	Fluctuating shells under pressure. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19551-19556.	7.1	57
118	Motility-sorting of self-propelled particles in microchannels. Europhysics Letters, 2014, 107, 36003.	2.0	57
119	Dynamics of self-propelled filaments pushing a load. Soft Matter, 2016, 12, 8495-8505.	2.7	57
120	Wetting in fcc Ising antiferromagnets and binary alloys. Physical Review B, 1987, 36, 7078-7090.	3.2	56
121	Mesoscale simulations of polymer dynamics in microchannel flows. Europhysics Letters, 2008, 83, 34007.	2.0	55
122	Dramatic influence of patchy attractions on short-time protein diffusion under crowded conditions. Science Advances, 2016, 2, e1601432.	10.3	55
123	Numerical study of the flow around a cylinder using multi-particle collision dynamics. European Physical Journal E, 2002, 9, 477-485.	1.6	54
124	Capillary Assembly of Microscale Ellipsoidal, Cuboidal, and Spherical Particles at Interfaces. Langmuir, 2014, 30, 11873-11882.	3.5	53
125	Elastic Properties of Interfaces in a Ginzburg-Landau Theory of Swollen Micelles, Droplet Crystals and Lamellar Phases. Europhysics Letters, 1991, 16, 731-736.	2.0	52
126	Two-dimensional fluctuating vesicles in linear shear flow. European Physical Journal E, 2008, 25, 309-321.	1.6	51

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127	Reconfigurable structure and tunable transport in synchronized active spinner materials. Science Advances, 2020, 6, eaaz8535.	10.3	51
128	TRIANGULATED-SURFACE MODELS OF FLUCTUATING MEMBRANES. , 2004, , 359-426.		50
129	Fluctuating interfaces in microemulsion and sponge phases. Physical Review E, 1994, 50, 1325-1335.	2.1	48
130	Traction force microscopy with optimized regularization and automated Bayesian parameter selection for comparing cells. Scientific Reports, 2019, 9, 539.	3.3	48
131	Enhanced Rotational Motion of Spherical Squirmer in Polymer Solutions. Physical Review Letters, 2020, 124, 068001.	7.8	47
132	Shape transformations of two-component membranes under weak tension. Europhysics Letters, 2001, 55, 587-593.	2.0	46
133	Multiparticle collision dynamics: GPU accelerated particle-based mesoscale hydrodynamic simulations. Computer Physics Communications, 2014, 185, 495-503.	7.5	46
134	High-Throughput Microfluidic Characterization of Erythrocyte Shapes and Mechanical Variability. Biophysical Journal, 2019, 117, 14-24.	0.5	46
135	Tumbling of polymers in semidilute solution under shear flow. Europhysics Letters, 2011, 93, 54004.	2.0	45
136	Giant adsorption of microswimmers: Duality of shape asymmetry and wall curvature. Physical Review E, 2015, 91, 050302.	2.1	45
137	Flow-Induced Helical Coiling of Semiflexible Polymers in Structured Microchannels. Physical Review Letters, 2012, 109, 178101.	7.8	44
138	Scattering from internal interfaces in microemulsion and sponge phases. Physical Review E, 1994, 49, 1478-1482.	2.1	42
139	Margination and stretching of von Willebrand factor in the blood stream enable adhesion. Scientific Reports, 2017, 7, 14278.	3.3	42
140	Wetting in fcc Ising antiferromagnets and binary alloys. II. A Monte Carlo and renormalization-group study. Physical Review B, 1988, 38, 459-473.	3.2	41
141	Unbinding transition of semiflexible membranes in (1+1) dimensions. Physical Review A, 1989, 40, 6124-6127.	2.5	41
142	Hydrodynamics of discrete-particle models of spherical colloids: A multiparticle collision dynamics simulation study. Physical Review E, 2014, 90, 033314.	2.1	41
143	Thermostat for nonequilibrium multiparticle-collision-dynamics simulations. Physical Review E, 2015, 91, 013310.	2.1	41
144	Grazing incidence diffraction of X-rays at a Si single crystal surface: Comparison of theory and experiment. European Physical Journal B, 1987, 69, 303-311.	1.5	40

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145	Lattice model of microemulsions: The effect of fluctuations in one and two dimensions. Physical Review A, 1990, 42, 2137-2149.	2.5	39
146	Dynamics of fluid vesicles in flow through structured microchannels. Europhysics Letters, 2010, 89, 28002.	2.0	39
147	Semidilute solutions of ultra-soft colloids under shear flow. Soft Matter, 2012, 8, 4109.	2.7	38
148	Active Brownian filaments with hydrodynamic interactions: conformations and dynamics. Soft Matter, 2019, 15, 3957-3969.	2.7	38
149	Monte Carlo study of nonuniversal wetting behavior in (2+1) dimensions. Physical Review B, 1988, 37, 3821-3824.	3.2	37
150	Interfacial properties of amphiphilic systems: The approach to Lifshitz points. Physical Review A, 1991, 43, 3157-3160.	2.5	37
151	Lattice-Boltzmann study of spontaneous emulsification. European Physical Journal B, 1999, 11, 91-100.	1.5	37
152	Elastic properties of polymer interfaces: Aggregation of pure diblock, mixed diblock, and triblock copolymers. Physical Review E, 2002, 66, 041805.	2.1	37
153	Self-avoiding linear and star polymers anchored to membranes. Physical Review E, 2003, 68, 051801.	2.1	37
154	Effects of an embedding bulk fluid on phase separation dynamics in a thin liquid film. Europhysics Letters, 2010, 89, 56001.	2.0	37
155	Near-surface structure of a bicontinuous microemulsion with a transition region. Physical Review E, 2011, 83, 030401.	2.1	37
156	Effect of hydrodynamic correlations on the dynamics of polymers in dilute solution. Journal of Chemical Physics, 2013, 138, 144902.	3.0	37
157	Dynamical and Rheological Properties of Ultrasoft Colloids under Shear Flow. Macromolecules, 2013, 46, 8026-8036.	4.8	36
158	Phase and scattering behavior of disordered aqueous surfactant solutions as the binary limit of ternary microemulsions. Chemical Physics Letters, 1989, 163, 475-479.	2.6	35
159	Multiparticle collision dynamics modeling of viscoelastic fluids. Journal of Chemical Physics, 2008, 128, 144902.	3.0	35
160	Hydrodynamic interactions in rod suspensions with orientational ordering. Soft Matter, 2010, 6, 4556.	2.7	35
161	Modeling microcirculatory blood flow: current state and future perspectives. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 157-168.	6.6	35
162	Sperm motility in modulated microchannels. New Journal of Physics, 2019, 21, 013016.	2.9	35

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163	Nonclassical wetting behavior in the solid-on-solid limit of the three-dimensional Ising model. Physical Review B, 1990, 42, 961-964.	3.2	33
164	Shapes and shape transformations of two-component membranes of complex topology. Physical Review E, 1999, 59, 4305-4316.	2.1	33
165	Active Brownian ring polymers. Journal of Chemical Physics, 2019, 150, 064913.	3.0	33
166	Adsorption of monovalent and multivalent cations and anions on DNA molecules. Physical Review E, 2003, 68, 061903.	2.1	32
167	Sedimentation of single red blood cells. Soft Matter, 2013, 9, 8346.	2.7	30
168	Hydrodynamic correlations and diffusion coefficient of star polymers in solution. Journal of Chemical Physics, 2014, 141, 084901.	3.0	30
169	Local stress and pressure in an inhomogeneous system of spherical active Brownian particles. Scientific Reports, 2019, 9, 6608.	3.3	30
170	Composition-Driven Shape Transformations of Membranes of Complex Topology. Physical Review Letters, 1998, 80, 4213-4216.	7.8	29
171	Lattice-Boltzmann model of amphiphilic systems. Europhysics Letters, 1998, 42, 419-424.	2.0	29
172	Fluctuation spectrum of membranes with anchored linear and star polymers. Physical Review E, 2005, 72, 031904.	2.1	29
173	Dynamics of a polymer chain confined in a membrane. European Physical Journal E, 2011, 34, 46.	1.6	29
174	Finite-size effects at wetting transitions. Physical Review B, 1989, 39, 433-445.	3.2	28
175	â€˜â€˜Confinedâ€™â€™ water and hydrophobic attraction as a result of metastable coordination, stabilized by hydrophobic surfaces. Journal of Chemical Physics, 1994, 101, 3378-3389.	3.0	28
176	Nonequilibrium Forces between Dragged Ultrasoft Colloids. Physical Review Letters, 2011, 107, 158301.	7.8	28
177	Scattering intensity of bicontinuous microemulsions and sponge phases. Journal of Chemical Physics, 2012, 136, 134708.	3.0	27
178	Sharp-edged geometric obstacles in microfluidics promote deformability-based sorting of cells. Physical Review Fluids, 2019, 4, .	2.5	27
179	Emergence of active turbulence in microswimmer suspensions due to active hydrodynamic stress and volume exclusion. Communications Physics, 2022, 5, .	5.3	27
180	Hydrodynamic mechanisms of spinodal decomposition in confined colloid-polymer mixtures: A multiparticle collision dynamics study. Journal of Chemical Physics, 2013, 138, 054901.	3.0	26

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181	Clustering and dynamics of particles in dispersions with competing interactions: theory and simulation. Soft Matter, 2018, 14, 92-103.	2.7	26
182	Effect of spectrin network elasticity on the shapes of erythrocyte doublets. Soft Matter, 2018, 14, 6278-6289.	2.7	26
183	Scaling functions for critical surface scattering. European Physical Journal B, 1984, 56, 217-227.	1.5	25
184	Variation with amphiphilic strength of the properties of ternary mixtures. Physical Review A, 1992, 46, 985-993.	2.5	25
185	Phase Diagram of Fluid Vesicles. Physical Review Letters, 1994, 73, 2139-2142.	7.8	25
186	Transport coefficients of dissipative particle dynamics with finite time step. Europhysics Letters, 2007, 79, 36002.	2.0	25
187	Ordering and arrangement of deformed red blood cells in flow through microcapillaries. New Journal of Physics, 2012, 14, 085026.	2.9	25
188	Self-organized vortices of circling self-propelled particles and curved active flagella. Physical Review E, 2014, 89, 012720.	2.1	25
189	Ginzburg-Landau theory of aqueous surfactant solutions. Journal De Physique II, 1992, 2, 1725-1744.	0.9	24
190	Fluctuations of polymerized, fluid and hexatic membranes: Continuum models and simulations. Current Opinion in Colloid and Interface Science, 1997, 2, 373-381.	7.4	24
191	Semiflexible polymer in a uniform force field in two dimensions. Physical Review E, 2001, 64, 061801.	2.1	24
192	Vesicle dynamics in shear and capillary flows. Journal of Physics Condensed Matter, 2005, 17, S3439-S3444.	1.8	24
193	Flow generation by rotating colloids in planar microchannels. Europhysics Letters, 2010, 92, 64003.	2.0	24
194	Multi-particle collision dynamics simulations of sedimenting colloidal dispersions in confinement. Faraday Discussions, 2010, 144, 245-252.	3.2	24
195	Interface dynamics of competing tissues. New Journal of Physics, 2016, 18, 083020.	2.9	24
196	Vesicles with internal active filaments: self-organized propulsion controls shape, motility, and dynamical response. New Journal of Physics, 2019, 21, 123024.	2.9	24
197	The steering gaits of sperm. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190149.	4.0	24
198	Filamentous active matter: Band formation, bending, buckling, and defects. Science Advances, 2020, 6, eaaw9975.	10.3	24

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199	Shape of inflated vesicles. Physical Review A, 1992, 46, 7466-7473.	2.5	23
200	Dynamic self-assembly and directed flow of rotating colloids in microchannels. Physical Review E, 2011, 84, 031404.	2.1	23
201	Conformational State Distributions and Catalytically Relevant Dynamics ofÂa Hinge-Bending Enzyme Studied by Single-Molecule FRET and a Coarse-Grained Simulation. Biophysical Journal, 2014, 107, 1913-1923.	0.5	23
202	Self-Organized Structures of Attractive End-Functionalized Semiflexible Polymer Suspensions. Macromolecules, 2014, 47, 4118-4125.	4.8	23
203	From local to hydrodynamic friction in Brownian motion: A multiparticle collision dynamics simulation study. Physical Review E, 2016, 93, 032604.	2.1	23
204	Reconstruction of the three-dimensional beat pattern underlying swimming behaviors of sperm. European Physical Journal E, 2021, 44, 87.	1.6	23
205	Scaling behavior of randomly triangulated self-avoiding surfaces. Physical Review A, 1992, 46, 3119-3122.	2.5	22
206	Stability of bicontinuous cubic phases in ternary amphiphilic systems with spontaneous curvature. Journal of Chemical Physics, 2000, 112, 3792-3802.	3.0	22
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