

# 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	Simulating wet active polymers by multiparticle collision dynamics. <i>Physical Review E</i> , 2022, 105, 015310.	2.1	3
2	Erythrocyte Sedimentation: Collapse of a High-Volume-Fraction Soft-Particle Gel. <i>Physical Review Letters</i> , 2022, 128, 088101.	7.8	12
3	Erythrocyte sedimentation: Effect of aggregation energy on gel structure during collapse. <i>Physical Review E</i> , 2022, 105, 024610.	2.1	11
4	Emergence of active turbulence in microswimmer suspensions due to active hydrodynamic stress and volume exclusion. <i>Communications Physics</i> , 2022, 5, .	5.3	27
5	Generic self-stabilization mechanism for biomolecular adhesions under load. <i>Nature Communications</i> , 2022, 13, 2197.	12.8	6
6	Alignment and propulsion of squirmer pusherâ€“puller dumbbells. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	3
7	Dynamics of active polar ring polymers. <i>Physical Review E</i> , 2022, 105, .	2.1	11
8	Effect of cytosol viscosity on the flow behavior of red blood cell suspensions in microvessels. <i>Microcirculation</i> , 2021, 28, e12668.	1.8	12
9	Self-Propelled Vesicles Driven by Internal Active Filaments. <i>Biophysical Journal</i> , 2021, 120, 237a.	0.5	0
10	A minimal model for structure, dynamics, and tension of monolayered cell colonies. <i>Communications Physics</i> , 2021, 4, .	5.3	15
11	The role of thickness inhomogeneities in hierarchical cortical folding. <i>NeuroImage</i> , 2021, 231, 117779.	4.2	6
12	Importance of Viscosity Contrast for the Motion of Erythrocytes in Microcapillaries. <i>Frontiers in Physics</i> , 2021, 9, .	2.1	11
13	Wall-anchored semiflexible polymer under large amplitude oscillatory shear flow. <i>Journal of Chemical Physics</i> , 2021, 154, 224901.	3.0	4
14	Multi-ciliated microswimmersâ€“metachronal coordination and helical swimming. <i>European Physical Journal E</i> , 2021, 44, 76.	1.6	6
15	Effect of malaria parasite shape on its alignment at erythrocyte membrane. <i>ELife</i> , 2021, 10, .	6.0	3
16	Reconstruction of the three-dimensional beat pattern underlying swimming behaviors of sperm. <i>European Physical Journal E</i> , 2021, 44, 87.	1.6	23
17	Active bath-induced localization and collapse of passive semiflexible polymers. <i>Journal of Chemical Physics</i> , 2021, 155, 044902.	3.0	11
18	Editorial: Motile active matter. <i>European Physical Journal E</i> , 2021, 44, 103.	1.6	2

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19	Tumbling and Vorticity Drift of Flexible Helicoidal Polymers in Shear Flow. <i>Macromolecules</i> , 2021, 54, 812-823.	4.8	4
20	The steering gaits of sperm. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190149.	4.0	24
21	Active particles induce large shape deformations in giant lipid vesicles. <i>Nature</i> , 2020, 586, 52-56.	27.8	116
22	Chiral-filament self-assembly on curved manifolds. <i>Soft Matter</i> , 2020, 16, 10548-10557.	2.7	3
23	DNA Self-Assembly Mediated by Programmable Soft-Patchy Interactions. <i>ACS Nano</i> , 2020, 14, 13524-13535.	14.6	6
24	Hydrodynamic interactions in squirmer dumbbells: active stress-induced alignment and locomotion. <i>Soft Matter</i> , 2020, 16, 10676-10687.	2.7	16
25	Filamentous active matter: Band formation, bending, buckling, and defects. <i>Science Advances</i> , 2020, 6, eaaw9975.	10.3	24
26	The physics of active polymers and filaments. <i>Journal of Chemical Physics</i> , 2020, 153, 040901.	3.0	86
27	Deterministic Lateral Displacement: Challenges and Perspectives. <i>ACS Nano</i> , 2020, 14, 10784-10795.	14.6	97
28	Buckling transitions and soft-phase invasion of two-component icosahedral shells. <i>Physical Review E</i> , 2020, 102, 062104.	2.1	4
29	Wall entrapment of peritrichous bacteria: a mesoscale hydrodynamics simulation study. <i>Soft Matter</i> , 2020, 16, 4866-4875.	2.7	15
30	Hydrodynamics of polymers in an active bath. <i>Physical Review E</i> , 2020, 101, 052612.	2.1	19
31	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 193001.	1.8	242
32	Computational models for active matter. <i>Nature Reviews Physics</i> , 2020, 2, 181-199.	26.6	192
33	Tissue evolution: mechanical interplay of adhesion, pressure, and heterogeneity. <i>New Journal of Physics</i> , 2020, 22, 033048.	2.9	7
34	Dissipative particle dynamics with energy conservation: Isoenergetic integration and transport properties. <i>Journal of Chemical Physics</i> , 2020, 152, 064112.	3.0	3
35	Enhanced Rotational Motion of Spherical Squirmer in Polymer Solutions. <i>Physical Review Letters</i> , 2020, 124, 068001.	7.8	47
36	Osmotic Concentration-Controlled Particle Uptake and Wrapping-Induced Lysis of Cells and Vesicles. <i>Nano Letters</i> , 2020, 20, 1662-1668.	9.1	14

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37	Reconfigurable structure and tunable transport in synchronized active spinner materials. <i>Science Advances</i> , 2020, 6, eaaz8535.	10.3	51
38	A Bayesian traction force microscopy method with automated denoising in a user-friendly software package. <i>Computer Physics Communications</i> , 2020, 256, 107313.	7.5	14
39	Rheotaxis of spheroidal squirmers in microchannel flow: Interplay of shape, hydrodynamics, active stress, and thermal fluctuations. <i>Physical Review Research</i> , 2020, 2, .	3.6	16
40	Stability of heterogeneous parallel-bond adhesion clusters under load. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
41	Stochastic bond dynamics facilitates alignment of malaria parasite at erythrocyte membrane upon invasion. <i>ELife</i> , 2020, 9, .	6.0	7
42	Multiscale Modeling of Malaria-Infected Red Blood Cells. , 2020, , 2625-2648.		1
43	Instability and fingering of interfaces in growing tissue. <i>New Journal of Physics</i> , 2020, 22, 083005.	2.9	10
44	Hydrodynamics in Motile Active Matter. , 2020, , 1471-1491.		1
45	Microfluidic Particle Sorting in Concentrated Erythrocyte Suspensions. <i>Physical Review Applied</i> , 2019, 12, .	3.8	13
46	Substrate-rigidity dependent migration of an idealized twitching bacterium. <i>Soft Matter</i> , 2019, 15, 6224-6236.	2.7	8
47	Deformation and dynamics of erythrocytes govern their traversal through microfluidic devices with a deterministic lateral displacement architecture. <i>Biomicrofluidics</i> , 2019, 13, 044106.	2.4	12
48	High-Throughput Microfluidic Characterization of Erythrocyte Shapes and Mechanical Variability. <i>Biophysical Journal</i> , 2019, 117, 14-24.	0.5	46
49	Mechanics of tissue competition: interfaces stabilize coexistence. <i>New Journal of Physics</i> , 2019, 21, 063017.	2.9	12
50	Importance of Erythrocyte Deformability for the Alignment of Malaria Parasite upon Invasion. <i>Biophysical Journal</i> , 2019, 117, 1202-1214.	0.5	21
51	Sperm motility in modulated microchannels. <i>New Journal of Physics</i> , 2019, 21, 013016.	2.9	35
52	Traction force microscopy with optimized regularization and automated Bayesian parameter selection for comparing cells. <i>Scientific Reports</i> , 2019, 9, 539.	3.3	48
53	State diagram for wall adhesion of red blood cells in shear flow: from crawling to flipping. <i>Soft Matter</i> , 2019, 15, 5511-5520.	2.7	8
54	Local stress and pressure in an inhomogeneous system of spherical active Brownian particles. <i>Scientific Reports</i> , 2019, 9, 6608.	3.3	30

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55	High Throughput Microfluidic Characterization of Erythrocyte Shapes and Mechanical Variability. Biophysical Journal, 2019, 116, 123a-124a.	0.5	2
56	Active Brownian filaments with hydrodynamic interactions: conformations and dynamics. Soft Matter, 2019, 15, 3957-3969.	2.7	38
57	Active Brownian ring polymers. Journal of Chemical Physics, 2019, 150, 064913.	3.0	33
58	Hydrodynamic correlations of viscoelastic fluids by multiparticle collision dynamics simulations. Journal of Chemical Physics, 2019, 151, 194110.	3.0	2
59	Vesicles with internal active filaments: self-organized propulsion controls shape, motility, and dynamical response. New Journal of Physics, 2019, 21, 123024.	2.9	24
60	Sharp-edged geometric obstacles in microfluidics promote deformability-based sorting of cells. Physical Review Fluids, 2019, 4, .	2.5	27
61	Chronology of motor-mediated microtubule streaming. ELife, 2019, 8, .	6.0	8
62	Simulating membranes, vesicles, and cells. , 2019, , 169-193.		2
63	From Modeling Nanoparticleâ€“Membrane Interactions toward Nanotoxicology. , 2019, , 217-243.		0
64	Steady state sedimentation of ultrasoft colloids. Journal of Chemical Physics, 2018, 148, 084901.	3.0	18
65	Hydrodynamics of binary-fluid mixtures â€”An augmented Multiparticle Collision Dynamics approach. Europhysics Letters, 2018, 121, 24003.	2.0	9
66	Quantitative modelling of nutrient-limited growth of bacterial colonies in microfluidic cultivation. Journal of the Royal Society Interface, 2018, 15, 20170713.	3.4	21
67	Confined active Brownian particles: theoretical description of propulsion-induced accumulation. New Journal of Physics, 2018, 20, 015001.	2.9	111
68	Flow-induced adhesion of shear-activated polymers to a substrate. Journal of Physics Condensed Matter, 2018, 30, 064001.	1.8	4
69	Nanoparticle wrapping at small non-spherical vesicles: curvatures at play. Nanoscale, 2018, 10, 6445-6458.	5.6	21
70	Clustering and dynamics of particles in dispersions with competing interactions: theory and simulation. Soft Matter, 2018, 14, 92-103.	2.7	26
71	Clustering of microswimmers: interplay of shape and hydrodynamics. Soft Matter, 2018, 14, 8590-8603.	2.7	105
72	Interaction of Particles and Pathogens with Biological Membranes. , 2018, , 471-498.		2

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73	Weak Shape Anisotropy Leads to a Nonmonotonic Contribution to Crowding, Impacting Protein Dynamics under Physiologically Relevant Conditions. <i>Journal of Physical Chemistry B</i> , 2018, 122, 12396-12402.	2.6	15
74	Active Brownian Filamentous Polymers under Shear Flow. <i>Polymers</i> , 2018, 10, 837.	4.5	22
75	Flow-Induced Transitions of Red Blood Cell Shapes under Shear. <i>Physical Review Letters</i> , 2018, 121, 118103.	7.8	93
76	Collective dynamics of self-propelled semiflexible filaments. <i>Soft Matter</i> , 2018, 14, 4483-4494.	2.7	63
77	Hydrodynamics in Motile Active Matter. , 2018, , 1-21.		4
78	Effect of spectrin network elasticity on the shapes of erythrocyte doublets. <i>Soft Matter</i> , 2018, 14, 6278-6289.	2.7	26
79	Nanoparticle-Decorated Erythrocytes Reveal That Particle Size Controls the Extent of Adsorption, Cell Shape, and Cell Deformability. <i>ACS Applied Nano Materials</i> , 2018, 1, 3785-3799.	5.0	18
80	Collective behavior of self-propelled rods with quorum sensing. <i>Physical Review E</i> , 2018, 98, 022605.	2.1	16
81	Multiscale Modeling of Malaria-Infected Red Blood Cells. , 2018, , 1-24.		2
82	Internal dynamics of semiflexible polymers with active noise. <i>Journal of Chemical Physics</i> , 2017, 146, 154903.	3.0	74
83	Margination and stretching of von Willebrand factor in the blood stream enable adhesion. <i>Scientific Reports</i> , 2017, 7, 14278.	3.3	42
84	Active Polymers – Emergent Conformational and Dynamical Properties: A Brief Review. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 101014.	1.6	79
85	Enhanced Dynamics of Confined Cytoskeletal Filaments Driven by Asymmetric Motors. <i>Biophysical Journal</i> , 2017, 113, 1121-1132.	0.5	21
86	Modeling the cleavage of von Willebrand factor by ADAMTS13 protease in shear flow. <i>Medical Engineering and Physics</i> , 2017, 48, 14-22.	1.7	13
87	Complex self-propelled rings: a minimal model for cell motility. <i>Soft Matter</i> , 2017, 13, 5865-5876.	2.7	20
88	Conformational and dynamical properties of semiflexible polymers in the presence of active noise. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	11
89	Active turbulence in a gas of self-assembled spinners. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12870-12875.	7.1	118
90	Human sperm steer with second harmonics of the flagellar beat. <i>Nature Communications</i> , 2017, 8, 1415.	12.8	79

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91	Nano- and microparticles at fluid and biological interfaces. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 373003.	1.8	64
92	Spatial correlations of hydrodynamic fluctuations in simple fluids under shear flow: A mesoscale simulation study. <i>Physical Review E</i> , 2017, 96, 062617.	2.1	5
93	Static and dynamic light scattering by red blood cells: A numerical study. <i>PLoS ONE</i> , 2017, 12, e0176799.	2.5	14
94	Conformational Properties of Active Semiflexible Polymers. <i>Polymers</i> , 2016, 8, 304.	4.5	95
95	Modeling microcirculatory blood flow: current state and future perspectives. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2016, 8, 157-168.	6.6	35
96	Interface dynamics of competing tissues. <i>New Journal of Physics</i> , 2016, 18, 083020.	2.9	24
97	Propagating interfaces in mixtures of active and passive Brownian particles. <i>New Journal of Physics</i> , 2016, 18, 123030.	2.9	61
98	Dramatic influence of patchy attractions on short-time protein diffusion under crowded conditions. <i>Science Advances</i> , 2016, 2, e1601432.	10.3	55
99	Dynamics of self-propelled filaments pushing a load. <i>Soft Matter</i> , 2016, 12, 8495-8505.	2.7	57
100	Modeling a spheroidal microswimmer and cooperative swimming in a narrow slit. <i>Soft Matter</i> , 2016, 12, 7372-7385.	2.7	72
101	From local to hydrodynamic friction in Brownian motion: A multiparticle collision dynamics simulation study. <i>Physical Review E</i> , 2016, 93, 032604.	2.1	23
102	Microswimmers – From Single Particle Motion to Collective Behavior. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2061-2064.	2.6	17
103	Red cells’ dynamic morphologies govern blood shear thinning under microcirculatory flow conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13289-13294.	7.1	179
104	Microswimmers near surfaces. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2333-2352.	2.6	64
105	Sorting cells by their dynamical properties. <i>Scientific Reports</i> , 2016, 6, 34375.	3.3	58
106	Equilibrium physics breakdown reveals the active nature of red blood cell flickering. <i>Nature Physics</i> , 2016, 12, 513-519.	16.7	231
107	Understanding particle margination in blood flow – A step toward optimized drug delivery systems. <i>Medical Engineering and Physics</i> , 2016, 38, 2-10.	1.7	67
108	Giant adsorption of microswimmers: Duality of shape asymmetry and wall curvature. <i>Physical Review E</i> , 2015, 91, 050302.	2.1	45

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109	Effect of angular momentum conservation on hydrodynamic simulations of colloids. <i>Physical Review E</i> , 2015, 92, 013301.	2.1	17
110	Hydrodynamic correlations in shear flow: Multiparticle-collision-dynamics simulation study. <i>Physical Review E</i> , 2015, 92, 053002.	2.1	8
111	Self-organization in suspensions of end-functionalized semiflexible polymers under shear flow. <i>Journal of Chemical Physics</i> , 2015, 143, 243117.	3.0	12
112	Preface: Special Topic on Coarse Graining of Macromolecules, Biopolymers, and Membranes. <i>Journal of Chemical Physics</i> , 2015, 143, 242901.	3.0	2
113	Physical Sensing of Surface Properties by Microswimmers – Directing Bacterial Motion via Wall Slip. <i>Scientific Reports</i> , 2015, 5, 9586.	3.3	77
114	Behavior of rigid and deformable particles in deterministic lateral displacement devices with different post shapes. <i>Journal of Chemical Physics</i> , 2015, 143, 243145.	3.0	67
115	Effect of fluid–colloid interactions on the mobility of a thermophoretic microswimmer in non-ideal fluids. <i>Soft Matter</i> , 2015, 11, 6703-6715.	2.7	20
116	Conformations, hydrodynamic interactions, and instabilities of sedimenting semiflexible filaments. <i>Soft Matter</i> , 2015, 11, 7337-7344.	2.7	20
117	Collective waves in dense and confined microfluidic droplet arrays. <i>Soft Matter</i> , 2015, 11, 5850-5861.	2.7	17
118	Thermostat for nonequilibrium multiparticle-collision-dynamics simulations. <i>Physical Review E</i> , 2015, 91, 013310.	2.1	41
119	Microvascular blood flow resistance: Role of red blood cell migration and dispersion. <i>Microvascular Research</i> , 2015, 99, 57-66.	2.5	90
120	Rheological Properties of Sheared Vesicle and Cell Suspensions. <i>Procedia IUTAM</i> , 2015, 16, 3-11.	1.2	3
121	Virial pressure in systems of spherical active Brownian particles. <i>Soft Matter</i> , 2015, 11, 6680-6691.	2.7	123
122	Physics of microswimmers—single particle motion and collective behavior: a review. <i>Reports on Progress in Physics</i> , 2015, 78, 056601.	20.1	1,029
123	Self-propelled worm-like filaments: spontaneous spiral formation, structure, and dynamics. <i>Soft Matter</i> , 2015, 11, 7181-7190.	2.7	117
124	Modelling the mechanics and hydrodynamics of swimming <i>E. coli</i> . <i>Soft Matter</i> , 2015, 11, 7867-7876.	2.7	94
125	Run-and-tumble dynamics of self-propelled particles in confinement. <i>Europhysics Letters</i> , 2015, 109, 58003.	2.0	97
126	Smoothed dissipative particle dynamics with angular momentum conservation. <i>Journal of Computational Physics</i> , 2015, 281, 301-315.	3.8	64



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127	Motility-sorting of self-propelled particles in microchannels. <i>Europhysics Letters</i> , 2014, 107, 36003.	2.0	57
128	HYDRODYNAMICS MEDIATED COLLECTIVE MOTIONS IN POPULATIONS OF MICRODROPLETS. <i>World Scientific Lecture Notes in Complex Systems</i> , 2014, , 125-148.	0.1	2
129	Mode coupling of phonons in a dense one-dimensional microfluidic crystal. <i>New Journal of Physics</i> , 2014, 16, 063029.	2.9	15
130	Dynamical and rheological properties of soft colloid suspensions. <i>Current Opinion in Colloid and Interface Science</i> , 2014, 19, 594-610.	7.4	68
131	Hydrodynamics of discrete-particle models of spherical colloids: A multiparticle collision dynamics simulation study. <i>Physical Review E</i> , 2014, 90, 033314.	2.1	41
132	Nonequilibrium structure and dynamics in a microscopic model of thin-film active gels. <i>Physical Review E</i> , 2014, 89, 032705.	2.1	21
133	Towards a Mechanistic Understanding of Cellular Uptake. <i>Biophysical Journal</i> , 2014, 106, 576a.	0.5	1
134	Shape and Orientation Matter for the Cellular Uptake of Nonspherical Particles. <i>Nano Letters</i> , 2014, 14, 687-693.	9.1	432
135	The computational sperm cell. <i>Trends in Cell Biology</i> , 2014, 24, 198-207.	7.9	106
136	White blood cell margination in microcirculation. <i>Soft Matter</i> , 2014, 10, 2961-2970.	2.7	97
137	Conformational State Distributions and Catalytically Relevant Dynamics of $\alpha$ -Hinge-Bending Enzyme Studied by Single-Molecule FRET and a Coarse-Grained Simulation. <i>Biophysical Journal</i> , 2014, 107, 1913-1923.	0.5	23
138	Interfacing Electrogenic Cells with 3D Nanoelectrodes: Position, Shape, and Size Matter. <i>ACS Nano</i> , 2014, 8, 6713-6723.	14.6	101
139	Cooperative motion of active Brownian spheres in three-dimensional dense suspensions. <i>Europhysics Letters</i> , 2014, 105, 48004.	2.0	201
140	Membrane-Wrapping Contributions to Malaria Parasite Invasion of the Human Erythrocyte. <i>Biophysical Journal</i> , 2014, 107, 43-54.	0.5	85
141	Structure and Dynamics of a Compact State of a Multidomain Protein, the Mercuric Ion Reductase. <i>Biophysical Journal</i> , 2014, 107, 393-400.	0.5	19
142	Scaffold Structures by Telechelic Rodlike Polymers: Nonequilibrium Structural and Rheological Properties under Shear Flow. <i>Macromolecules</i> , 2014, 47, 6946-6954.	4.8	10
143	Self-Organized Structures of Attractive End-Functionalized Semiflexible Polymer Suspensions. <i>Macromolecules</i> , 2014, 47, 4118-4125.	4.8	23
144	Multiparticle collision dynamics: GPU accelerated particle-based mesoscale hydrodynamic simulations. <i>Computer Physics Communications</i> , 2014, 185, 495-503.	7.5	46

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145	Hydrodynamic correlations and diffusion coefficient of star polymers in solution. <i>Journal of Chemical Physics</i> , 2014, 141, 084901.	3.0	30
146	Capillary Assembly of Microscale Ellipsoidal, Cuboidal, and Spherical Particles at Interfaces. <i>Langmuir</i> , 2014, 30, 11873-11882.	3.5	53
147	Deformation and dynamics of red blood cells in flow through cylindrical microchannels. <i>Soft Matter</i> , 2014, 10, 4258-4267.	2.7	147
148	Interdomain Dynamics of Phosphoglycerate Kinase Studied by Single-Molecule FRET and a Mesoscale Hydrodynamics Simulation. <i>Biophysical Journal</i> , 2014, 106, 253a.	0.5	0
149	Self-organized vortices of circling self-propelled particles and curved active flagella. <i>Physical Review E</i> , 2014, 89, 012720.	2.1	25
150	Multiscale modeling of blood flow: from single cells to blood rheology. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 239-258.	2.8	200
151	Margination of micro- and nano-particles in blood flow and its effect on drug delivery. <i>Scientific Reports</i> , 2014, 4, 4871.	3.3	228
152	Sedimentation of single red blood cells. <i>Soft Matter</i> , 2013, 9, 8346.	2.7	30
153	Mesoscale hydrodynamics simulations of particle suspensions under shear flow: From hard to ultrasoft colloids. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2773-2786.	2.6	7
154	Dynamical and Rheological Properties of Ultrasoft Colloids under Shear Flow. <i>Macromolecules</i> , 2013, 46, 8026-8036.	4.8	36
155	Wall accumulation of self-propelled spheres. <i>Europhysics Letters</i> , 2013, 101, 48003.	2.0	221
156	Red Blood Cell Membrane Fluctuations and their Mechanisms: Passive Versus Active. <i>Biophysical Journal</i> , 2013, 104, 427a.	0.5	0
157	Effect of hydrodynamic correlations on the dynamics of polymers in dilute solution. <i>Journal of Chemical Physics</i> , 2013, 138, 144902.	3.0	37
158	Wrapping of ellipsoidal nano-particles by fluid membranes. <i>Soft Matter</i> , 2013, 9, 5473-5482.	2.7	109
159	Confinement Effects in Block Copolymer Modified Bicontinuous Microemulsions. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5623-5632.	2.6	16
160	Structure formation of surfactant membranes under shear flow. <i>Journal of Chemical Physics</i> , 2013, 139, 014702.	3.0	8
161	Hydrodynamic mechanisms of spinodal decomposition in confined colloid-polymer mixtures: A multiparticle collision dynamics study. <i>Journal of Chemical Physics</i> , 2013, 138, 054901.	3.0	26
162	Dynamics and rheology of vesicle suspensions in wall-bounded shear flow. <i>Europhysics Letters</i> , 2013, 102, 28004.	2.0	19

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163	Collective behavior of penetrable self-propelled rods in two dimensions. <i>Physical Review E</i> , 2013, 88, 062314.	2.1	94
164	Fluctuation pressure of biomembranes in planar confinement. <i>Physical Review E</i> , 2013, 88, 010701.	2.1	9
165	Emergence of metachronal waves in cilia arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4470-4475.	7.1	313
166	Synchronization, Slippage, and Unbundling of Driven Helical Flagella. <i>PLoS ONE</i> , 2013, 8, e70868.	2.5	61
167	Spindles and Active Vortices. , 2013, , 25-47.		0
168	Monte Carlo Studies of $C_{60}$ - and $C_{70}$ -Peapods. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 371-377.	2.1	1
169	Ordering and arrangement of deformed red blood cells in flow through microcapillaries. <i>New Journal of Physics</i> , 2012, 14, 085026.	2.9	25
170	Confinement-induced screening of hydrodynamic interactions and spinodal decomposition: Multiscale simulations of colloid-polymer mixtures. <i>Europhysics Letters</i> , 2012, 100, 46003.	2.0	3
171	Scattering intensity of bicontinuous microemulsions and sponge phases. <i>Journal of Chemical Physics</i> , 2012, 136, 134708.	3.0	27
172	Conformational and dynamical properties of ultra-soft colloids in semi-dilute solutions under shear flow. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 464103.	1.8	18
173	Hydrodynamic correlations in multiparticle collision dynamics fluids. <i>Physical Review E</i> , 2012, 86, 056711.	2.1	69
174	Flow-Induced Helical Coiling of Semiflexible Polymers in Structured Microchannels. <i>Physical Review Letters</i> , 2012, 109, 178101.	7.8	44
175	Fluctuating shells under pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19551-19556.	7.1	57
176	Non-Equilibrium Properties of Semidilute Polymer Solutions under Shear Flow. <i>Journal of Physics: Conference Series</i> , 2012, 392, 012003.	0.4	9
177	Non-equilibrium relaxation and tumbling times of polymers in semidilute solution. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284131.	1.8	19
178	Margination of White Blood Cells in Microcapillary Flow. <i>Physical Review Letters</i> , 2012, 108, 028104.	7.8	111
179	Synchronization and bundling of anchored bacterial flagella. <i>Soft Matter</i> , 2012, 8, 4363.	2.7	111
180	Semidilute solutions of ultra-soft colloids under shear flow. <i>Soft Matter</i> , 2012, 8, 4109.	2.7	38

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