

Hartmut Lowen

List of Publications by Year in descending order

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522
papers

27,896
citations

6250

80
h-index

9854

141
g-index

535
all docs

535
docs citations

535
times ranked

9949
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Ornstein-Uhlenbeck model for self-propelled particles with inertia. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 035101.	0.7	26
2	Modeling and theoretical description of magnetic hybrid materials—bridging from meso- to macro-scales. <i>ChemistrySelect</i> , 2022, 7, 1529-1544.	0.7	3
3	Dynamics of active particles with space-dependent swim velocity. <i>Soft Matter</i> , 2022, 18, 1412-1422.	1.2	24
4	The parental active model: A unifying stochastic description of self-propulsion. <i>Journal of Chemical Physics</i> , 2022, 156, 071102.	1.2	30
5	Brownian particles driven by spatially periodic noise. <i>European Physical Journal E</i> , 2022, 45, 18.	0.7	3
6	Topological fine structure of smectic grain boundaries and tetratic disclination lines within three-dimensional smectic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15691-15704.	1.3	8
7	The rheology of confined colloidal hard disks. <i>Journal of Chemical Physics</i> , 2022, 156, 184902.	1.2	5
8	Active Brownian motion with memory delay induced by a viscoelastic medium. <i>Physical Review E</i> , 2022, 105, 044610.	0.8	12
9	Elastic Deformations of Spherical Core-Shell Systems Under an Equatorial Load. <i>Journal of Elasticity</i> , 2022, 150, 77-89.	0.9	3
10	Structural correlations in highly asymmetric binary charged colloidal mixtures. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 15439-15451.	1.3	3
11	Interface-induced hysteretic volume phase transition of microgels: simulation and experiment. <i>Soft Matter</i> , 2021, 17, 5581-5589.	1.2	7
12	Negative resistance for colloids driven over two barriers in a microchannel. <i>Soft Matter</i> , 2021, 17, 516-522.	1.2	4
13	Particle-resolved topological defects of smectic colloidal liquid crystals in extreme confinement. <i>Nature Communications</i> , 2021, 12, 623.	5.8	21
14	Collapse-induced phase transitions in binary interfacial microgel monolayers. <i>Soft Matter</i> , 2021, 17, 4504-4516.	1.2	9
15	Order-preserving dynamics in one dimension—single-file diffusion and caging from the perspective of dynamical density functional theory. <i>Molecular Physics</i> , 2021, 119, .	0.8	8
16	Hydrodynamics can determine the optimal route for microswimmer navigation. <i>Communications Physics</i> , 2021, 4, .	2.0	36
17	Soft Particles at Liquid Interfaces: From Molecular Particle Architecture to Collective Phase Behavior. <i>Langmuir</i> , 2021, 37, 5364-5375.	1.6	22
18	Surfactants and rotelles in active chiral fluids. <i>Science Advances</i> , 2021, 7, .	4.7	24

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19	Time-dependent inertia of self-propelled particles: The Langevin rocket. <i>Physical Review E</i> , 2021, 103, 042601.	0.8	29
20	Barrier-mediated predator-prey dynamics. <i>Europhysics Letters</i> , 2021, 134, 48005.	0.7	2
21	Active noise-driven particles under space-dependent friction in one dimension. <i>Physical Review E</i> , 2021, 103, 052602.	0.8	6
22	Steady azimuthal flow field induced by a rotating sphere near a rigid disk or inside a gap between two coaxially positioned rigid disks. <i>Physics of Fluids</i> , 2021, 33, 082011.	1.6	6
23	Active dropoids. <i>Nature Communications</i> , 2021, 12, 6005.	5.8	15
24	Topology of Orientational Defects in Confined Smectic Liquid Crystals. <i>Physical Review Letters</i> , 2021, 127, 198001.	2.9	19
25	Collective self-optimization of communicating active particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
26	Active rotational dynamics of a self-diffusiophoretic colloidal motor. <i>Soft Matter</i> , 2020, 16, 1236-1245.	1.2	9
27	Buckling of two-dimensional plasma crystals with nonreciprocal interactions. <i>Physical Review E</i> , 2020, 102, 043204.	0.8	9
28	Crowding-Enhanced Diffusion: An Exact Theory for Highly Entangled Self-Propelled Stiff Filaments. <i>Physical Review Letters</i> , 2020, 125, 138002.	2.9	18
29	Towards an analytical description of active microswimmers in clean and in surfactant-covered drops. <i>European Physical Journal E</i> , 2020, 43, 58.	0.7	17
30	Dynamical Crystallites of Active Chiral Particles. <i>Physical Review Letters</i> , 2020, 125, 218002.	2.9	31
31	Realization of a motility-trap for active particles. <i>Communications Physics</i> , 2020, 3, .	2.0	15
32	Active Assembly of Spheroidal Photocatalytic BiVO ₄ Microswimmers. <i>Langmuir</i> , 2020, 36, 12473-12480.	1.6	23
33	Classical dynamical density functional theory: from fundamentals to applications. <i>Advances in Physics</i> , 2020, 69, 121-247.	35.9	126
34	Active Brownian and inertial particles in disordered environments: Short-time expansion of the mean-square displacement. <i>Physical Review E</i> , 2020, 102, 062604.	0.8	19
35	Axisymmetric Stokes flow due to a point-force singularity acting between two coaxially positioned rigid no-slip disks. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	1.4	6
36	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 193001.	0.7	242

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37	Active Brownian Motion with Orientation-Dependent Motility: Theory and Experiments. <i>Langmuir</i> , 2020, 36, 7066-7073.	1.6	32
38	Inertial effects of self-propelled particles: From active Brownian to active Langevin motion. <i>Journal of Chemical Physics</i> , 2020, 152, 040901.	1.2	150
39	Clustering-induced velocity-reversals of active colloids mixed with passive particles. <i>Journal of Chemical Physics</i> , 2020, 152, 014903.	1.2	14
40	Swarm Hunting and Cluster Ejections in Chemically Communicating Active Mixtures. <i>Scientific Reports</i> , 2020, 10, 5594.	1.6	9
41	Properties of surface Landau-de Gennes Q -tensor models. <i>Soft Matter</i> , 2020, 16, 4032-4042.	1.2	13
42	Dynamics of a microswimmer-microplatelet composite. <i>Physics of Fluids</i> , 2020, 32, 021902.	1.6	11
43	Rototaxis: Localization of active motion under rotation. <i>Physical Review Research</i> , 2020, 2, .	1.3	5
44	Turbulence in active fluids caused by self-propulsion. <i>Asymptotic Analysis</i> , 2019, 113, 195-209.	0.2	1
45	Axisymmetric Flow due to a Stokeslet Near a Finite-Sized Elastic Membrane. <i>Journal of the Physical Society of Japan</i> , 2019, 88, 054401.	0.7	15
46	Response to "Comment on "Which interactions dominate in active colloids?" [J. Chem. Phys. 151, 067101 (2019)]. <i>Journal of Chemical Physics</i> , 2019, 151, 067102.	1.2	4
47	Moiré and honeycomb lattices through self-assembly of hard-core/soft-shell microgels: experiment and simulation. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19153-19162.	1.3	26
48	Classical density functional theory for a two-dimensional isotropic ferrogel model with labeled particles. <i>Physical Review E</i> , 2019, 100, 012605.	0.8	10
49	Stimuli-Responsive Behavior of PNIPAm Microgels under Interfacial Confinement. <i>Langmuir</i> , 2019, 35, 10512-10521.	1.6	63
50	Creeping motion of a solid particle inside a spherical elastic cavity: II. Asymmetric motion. <i>European Physical Journal E</i> , 2019, 42, 89.	0.7	8
51	Persistent Anti-Correlations in Brownian Dynamics Simulations of Dense Colloidal Suspensions Revealed by Noise Suppression. <i>Physical Review Letters</i> , 2019, 123, 168001.	2.9	14
52	Frequency-dependent higher-order Stokes singularities near a planar elastic boundary: Implications for the hydrodynamics of an active microswimmer near an elastic interface. <i>Physical Review E</i> , 2019, 100, 032610.	0.8	14
53	Optimal navigation strategies for active particles. <i>Europhysics Letters</i> , 2019, 127, 34003.	0.7	38
54	Theory of active particle penetration through a planar elastic membrane. <i>New Journal of Physics</i> , 2019, 21, 083014.	1.2	9

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55	Multi-species dynamical density functional theory for microswimmers: Derivation, orientational ordering, trapping potentials, and shear cells. <i>Journal of Chemical Physics</i> , 2019, 151, .	1.2	20
56	Traveling band formation in feedback-driven colloids. <i>Physical Review E</i> , 2019, 100, 022609.	0.8	17
57	Chemical Physics of Active Matter. <i>Journal of Chemical Physics</i> , 2019, 151, 114901.	1.2	21
58	Active particles in noninertial frames: How to self-propel on a carousel. <i>Physical Review E</i> , 2019, 99, 062608.	0.8	16
59	Propagating density spikes in light-powered motility-ratchets. <i>Soft Matter</i> , 2019, 15, 5185-5192.	1.2	13
60	Phase diagram of two-dimensional colloids with Yukawa repulsion and dipolar attraction. <i>Journal of Chemical Physics</i> , 2019, 150, 104903.	1.2	10
61	Light-controlled assembly of active colloidal molecules. <i>Journal of Chemical Physics</i> , 2019, 150, 094905.	1.2	83
62	Taming polar active matter with moving substrates: directed transport and counterpropagating macrobands. <i>New Journal of Physics</i> , 2019, 21, 013023.	1.2	5
63	Colloidal Brazil nut effect in microswimmer mixtures induced by motility contrast. <i>Journal of Chemical Physics</i> , 2019, 150, 114902.	1.2	10
64	Which interactions dominate in active colloids?. <i>Journal of Chemical Physics</i> , 2019, 150, 061102.	1.2	47
65	Membrane penetration and trapping of an active particle. <i>Journal of Chemical Physics</i> , 2019, 150, 064906.	1.2	22
66	Motility-Induced Temperature Difference in Coexisting Phases. <i>Physical Review Letters</i> , 2019, 123, 228001.	2.9	96
67	Modeling Chemotaxis of Microswimmers: From Individual to Collective Behavior. , 2019, , 493-516.		7
68	Swimming trajectories of a three-sphere microswimmer near a wall. <i>Journal of Chemical Physics</i> , 2018, 148, 134904.	1.2	35
69	Tunable dynamic moduli of magnetic elastomers: from characterization by x-ray micro-computed tomography to mesoscopic modeling. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 125101.	0.7	27
70	Spontaneous membrane formation and self-encapsulation of active rods in an inhomogeneous motility field. <i>Physical Review E</i> , 2018, 97, 022608.	0.8	12
71	Liquid crystals of hard rectangles on flat and cylindrical manifolds. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 5285-5294.	1.3	13
72	Static structure of active Brownian hard disks. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 074001.	0.7	13

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73	Active colloidal molecules. <i>Europhysics Letters</i> , 2018, 121, 58001.	0.7	45
74	Particle-scale statistical theory for hydrodynamically induced polar ordering in microswimmer suspensions. <i>Journal of Chemical Physics</i> , 2018, 149, 144902.	1.2	21
75	Length segregation in mixtures of spherocylinders induced by imposed topological defects. <i>Soft Matter</i> , 2018, 14, 8962-8973.	1.2	2
76	Inertial delay of self-propelled particles. <i>Nature Communications</i> , 2018, 9, 5156.	5.8	113
77	Nutrient Transport Driven by Microbial Active Carpets. <i>Physical Review Letters</i> , 2018, 121, 248101.	2.9	33
78	Synthetic Chemotaxis and Collective Behavior in Active Matter. <i>Accounts of Chemical Research</i> , 2018, 51, 2982-2990.	7.6	93
79	Creeping motion of a solid particle inside a spherical elastic cavity. <i>European Physical Journal E</i> , 2018, 41, 104.	0.7	9
80	Impedance Resonance in Narrow Confinement. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21724-21734.	1.5	16
81	Ground state of dipolar hard spheres confined in channels. <i>Physical Review E</i> , 2018, 97, 052608.	0.8	13
82	Viscotaxis : Microswimmer Navigation in Viscosity Gradients. <i>Physical Review Letters</i> , 2018, 120, 208002.	2.9	68
83	Active crystals on a sphere. <i>Physical Review E</i> , 2018, 97, 052615.	0.8	40
84	Long-time anomalous swimmer diffusion in smectic liquid crystals. <i>Physical Review E</i> , 2018, 97, 062606.	0.8	13
85	Hydrodynamic coupling and rotational mobilities near planar elastic membranes. <i>Journal of Chemical Physics</i> , 2018, 149, 014901.	1.2	15
86	Complex structures generated by competing interactions in harmonically confined colloidal suspensions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 325101.	0.7	6
87	Binary pusher-puller mixtures of active microswimmers and their collective behaviour. <i>Molecular Physics</i> , 2018, 116, 3401-3408.	0.8	23
88	Dynamics in a one-dimensional ferrogel model: relaxation, pairing, shock-wave propagation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15037-15051.	1.3	15
89	Theory of microstructured polymer-electrolyte artificial muscles. <i>Smart Materials and Structures</i> , 2018, 27, 075056.	1.8	8
90	State diagram of a three-sphere microswimmer in a channel. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 254004.	0.7	27

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91	Nematic liquid crystals on curved surfaces: a thin film limit. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170686.	1.0	18
92	Controlled assembly of single colloidal crystals using electro-osmotic micro-pumps. Physical Chemistry Chemical Physics, 2017, 19, 3104-3114.	1.3	29
93	Statistical analysis of magnetically soft particles in magnetorheological elastomers. Smart Materials and Structures, 2017, 26, 045012.	1.8	44
94	Brownian motion of a circle swimmer in a harmonic trap. Physical Review E, 2017, 95, 022606.	0.8	29
95	Simulation Study of Ion Diffusion in Charged Nanopores with Anchored Terminal Groups. Electrochimica Acta, 2017, 242, 73-85.	2.6	5
96	Dynamic mode locking in a driven colloidal system: experiments and theory. New Journal of Physics, 2017, 19, 013010.	1.2	10
97	Phase diagram of two-dimensional hard rods from fundamental mixed measure density functional theory. Journal of Chemical Physics, 2017, 147, 134908.	1.2	33
98	Smectic monolayer confined on a sphere: topology at the particle scale. Soft Matter, 2017, 13, 8120-8135.	1.2	13
99	Dynamical density functional theory for circle swimmers. New Journal of Physics, 2017, 19, 125004.	1.2	27
100	Helical paths, gravitaxis, and separation phenomena for mass-anisotropic self-propelling colloids: Experiment versus theory. Journal of Chemical Physics, 2017, 147, 084905.	1.2	40
101	Triple Junction at the Triple Point Resolved on the Individual Particle Level. Physical Review Letters, 2017, 119, 128001.	2.9	12
102	Dislocation-free growth of quasicrystals from two seeds due to additional phasonic degrees of freedom. Physical Review E, 2017, 96, 012602.	0.8	16
103	Aging and rejuvenation of active matter under topological constraints. Scientific Reports, 2017, 7, 5667.	1.6	48
104	A density functional approach to ferrogels. Journal of Physics Condensed Matter, 2017, 29, 275102.	0.7	17
105	Low-Temperature Crystal Structures of the Hard Core Square Shoulder Model. Materials, 2017, 10, 1280.	1.3	9
106	Analysis of a Living Fluid Continuum Model. Springer Proceedings in Mathematics and Statistics, 2017, , 285-303.	0.1	2
107	Dynamical Density Functional Theory for Brownian Dynamics of Colloidal Particles. Molecular Modeling and Simulation, 2017, , 255-284.	0.2	4
108	Flow of colloidal solids and fluids through constrictions: dynamical density functional theory versus simulation. Journal of Physics Condensed Matter, 2016, 28, 244019.	0.7	22

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109	Symmetry breaking in clogging for oppositely driven particles. <i>Physical Review E</i> , 2016, 94, 052606.	0.8	7
110	Close packing of rods on spherical surfaces. <i>Journal of Chemical Physics</i> , 2016, 144, 164903.	1.2	17
111	Colloidal suspensions of C-particles: Entanglement, percolation and microrheology. <i>Journal of Chemical Physics</i> , 2016, 144, 174901.	1.2	6
112	Dynamical density functional theory for microswimmers. <i>Journal of Chemical Physics</i> , 2016, 144, 024115.	1.2	75
113	Emerging activity in bilayered dispersions with wake-mediated interactions. <i>Journal of Chemical Physics</i> , 2016, 144, 224901.	1.2	21
114	Hard rectangles near curved hard walls: Tuning the sign of the Tolman length. <i>Journal of Chemical Physics</i> , 2016, 145, 204508.	1.2	6
115	Dynamic elastic moduli in magnetic gels: Normal modes and linear response. <i>Journal of Chemical Physics</i> , 2016, 145, 104904.	1.2	41
116	Nucleation pathway and kinetics of phase-separating active Brownian particles. <i>Soft Matter</i> , 2016, 12, 5257-5264.	1.2	28
117	Fission and fusion scenarios for magnetic microswimmer clusters. <i>Nature Communications</i> , 2016, 7, 13519.	5.8	48
118	Active Particles in Complex and Crowded Environments. <i>Reviews of Modern Physics</i> , 2016, 88, .	16.4	1,875
119	Superelastic stress-strain behavior in ferrogels with different types of magneto-elastic coupling. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26670-26690.	1.3	32
120	Dynamics of a linear magnetic "microswimmer molecule". <i>Europhysics Letters</i> , 2016, 113, 58003.	0.7	27
121	Getting drowned in a swirl: Deformable bead-spring model microswimmers in external flow fields. <i>Physical Review E</i> , 2016, 93, 022610.	0.8	19
122	Following fluctuating signs: Anomalous active superdiffusion of swimmers in anisotropic media. <i>Physical Review E</i> , 2016, 93, 062610.	0.8	17
123	Microswimmers " From Single Particle Motion to Collective Behavior. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2061-2064.	1.2	17
124	Chirality in microswimmer motion: From circle swimmers to active turbulence. <i>European Physical Journal: Special Topics</i> , 2016, 225, 2319-2331.	1.2	83
125	Phototaxis of synthetic microswimmers in optical landscapes. <i>Nature Communications</i> , 2016, 7, 12828.	5.8	210
126	Dipole correlation effects on the local field and the effective dielectric constant in composite dielectrics containing high-k inclusions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19103-19117.	1.3	36

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127	Structural correlations in diffusiophoretic colloidal mixtures with nonreciprocal interactions. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 025102.	0.7	12
128	Diffusion of macromolecules in a polymer hydrogel: from microscopic to macroscopic scales. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12860-12876.	1.3	65
129	Transmission of torque at the nanoscale. <i>Nature Physics</i> , 2016, 12, 98-103.	6.5	25
130	Glass transition of charged particles in two-dimensional confinement. <i>Physical Review E</i> , 2015, 91, 052301.	0.8	10
131	Effect of self-propulsion on equilibrium clustering. <i>Physical Review E</i> , 2015, 92, 032301.	0.8	33
132	Classical Liquids in Fractal Dimension. <i>Physical Review Letters</i> , 2015, 115, 097801.	2.9	14
133	Negative Interfacial Tension in Phase-Separated Active Brownian Particles. <i>Physical Review Letters</i> , 2015, 115, 098301.	2.9	141
134	Active dipole clusters: From helical motion to fission. <i>Physical Review E</i> , 2015, 92, 012301.	0.8	29
135	Swim pressure on walls with curves and corners. <i>Physical Review E</i> , 2015, 92, 032304.	0.8	75
136	Enhanced ionic diffusion in ionomer-filled nanopores. <i>Journal of Chemical Physics</i> , 2015, 143, 243126.	1.2	4
137	Tailoring superelasticity of soft magnetic materials. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	42
138	Statistical Mechanics where Newton's Third Law is Broken. <i>Physical Review X</i> , 2015, 5, .	2.8	115
139	A simulation study of the electrostriction effects in dielectric elastomer composites containing polarizable inclusions with different spatial distributions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32479-32497.	1.3	27
140	Kinks in experimental diffusion profiles of a dissolving semi-crystalline polymer explained by a concentration-dependent diffusion coefficient. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15781-15787.	1.3	10
141	Liquid pair correlations in four spatial dimensions: theory versus simulation. <i>Molecular Physics</i> , 2015, 113, 1164-1169.	0.8	3
142	Analysis of the actuation properties of charged multilayer films. <i>Journal of Applied Physics</i> , 2015, 117, 034504.	1.1	8
143	Can the self-propulsion of anisotropic microswimmers be described by using forces and torques?. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194110.	0.7	55
144	Crystallization seeds favour crystallization only during initial growth. <i>Nature Communications</i> , 2015, 6, 7110.	5.8	64

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145	Towards a scale-bridging description of ferrogels and magnetic elastomers. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 325105.	0.7	25
146	History and perspective of the Caracarrinello approach applied to classical systems. <i>Molecular Physics</i> , 2015, 113, 2385-2386.	0.8	1
147	Flexible confinement leads to multiple relaxation regimes in glassy colloidal liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 024505.	1.2	14
148	Dynamical mean-field theory and weakly non-linear analysis for the phase separation of active Brownian particles. <i>Journal of Chemical Physics</i> , 2015, 142, 224109.	1.2	103
149	Depolarized light scattering from prolate anisotropic particles: The influence of the particle shape on the field autocorrelation function. <i>Journal of Chemical Physics</i> , 2015, 143, 044903.	1.2	8
150	How does a flexible chain of active particles swell?. <i>Journal of Chemical Physics</i> , 2015, 142, 124905.	1.2	88
151	Motion of two micro-wedges in a turbulent bacterial bath. <i>European Physical Journal: Special Topics</i> , 2015, 224, 1275-1286.	1.2	27
152	Active colloidal suspensions: Clustering and phase behavior. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 367-375.	1.5	127
153	Mechanisms of Carrier Transport Induced by a Microswimmer Bath. <i>IEEE Transactions on Nanobioscience</i> , 2015, 14, 260-266.	2.2	13
154	Dynamical density functional theory for the diffusion of injected Brownian particles. <i>European Physical Journal: Special Topics</i> , 2014, 223, 3113-3127.	1.2	9
155	Scaling of cluster growth for coagulating active particles. <i>Physical Review E</i> , 2014, 89, 022307.	0.8	16
156	Unusual swelling of a polymer in a bacterial bath. <i>Journal of Chemical Physics</i> , 2014, 141, 044903.	1.2	88
157	Coupling between bulk- and surface chemistry in suspensions of charged colloids. <i>Journal of Chemical Physics</i> , 2014, 140, 124904.	1.2	24
158	Reply. <i>Physical Review Letters</i> , 2014, 113, 029802.	2.9	16
159	Tunable dynamic response of magnetic gels: Impact of structural properties and magnetic fields. <i>Physical Review E</i> , 2014, 90, 042311.	0.8	41
160	The effect of boundary adaptivity on hexagonal ordering and bistability in circularly confined quasi hard discs. <i>Journal of Chemical Physics</i> , 2014, 140, 104907.	1.2	15
161	Deformable microswimmer in a swirl: Capturing and scattering dynamics. <i>Physical Review E</i> , 2014, 90, 032907.	0.8	17
162	Structural control of elastic moduli in ferrogels and the importance of non-affine deformations. <i>Journal of Chemical Physics</i> , 2014, 141, 124904.	1.2	53

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163	How does a thermal binary crystal break under shear?. Journal of Chemical Physics, 2014, 141, 224505.	1.2	5
164	Heterogeneous crystallization of hard and soft spheres near flat and curved walls. European Physical Journal: Special Topics, 2014, 223, 439-454.	1.2	27
165	Active crystals and their stability. Physical Review E, 2014, 89, 022301.	0.8	63
166	Transport Powered by Bacterial Turbulence. Physical Review Letters, 2014, 112, 158101.	2.9	139
167	Density functional theory of heterogeneous crystallization. European Physical Journal: Special Topics, 2014, 223, 373-387.	1.2	21
168	Dynamics of two-dimensional one-component and binary Yukawa systems in a magnetic field. Physical Review E, 2014, 89, 013105.	0.8	39
169	Swimming path statistics of an active Brownian particle with time-dependent self-propulsion. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02011.	0.9	19
170	Density functional theory of freezing for binary mixtures of 2D superparamagnetic colloids. Journal of Physics Condensed Matter, 2014, 26, 465101.	0.7	5
171	Magnetomechanical response of bilayered magnetic elastomers. Smart Materials and Structures, 2014, 23, 115004.	1.8	18
172	Gravitaxis of asymmetric self-propelled colloidal particles. Nature Communications, 2014, 5, 4829.	5.8	211
173	Class-transition properties of Yukawa potentials: From charged point particles to hard spheres. Physical Review E, 2014, 89, 063105.	0.8	21
174	Highly asymmetric electrolytes in the primitive model: Hypernetted chain solution in arbitrary spatial dimensions. Journal of Computational Chemistry, 2014, 35, 275-289.	1.5	30
175	Effective Cahn-Hilliard Equation for the Phase Separation of Active Brownian Particles. Physical Review Letters, 2014, 112, .	2.9	221
176	Growth Modes of Quasicrystals. Physical Review Letters, 2014, 112, 255501.	2.9	62
177	Magnetic Field Blocks Two-Dimensional Crystallization in Strongly Coupled Plasmas. Physical Review Letters, 2013, 111, 065001.	2.9	20
178	Two-Dimensional Melting under Quenched Disorder. Physical Review Letters, 2013, 111, 098301.	2.9	85
179	Microscopic approach to entropy production. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 355003.	0.7	13
180	Direct measurement of osmotic pressure via adaptive confinement of quasi hard disc colloids. Nature Communications, 2013, 4, 2555.	5.8	27

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181	Structural ordering of trapped colloids with competing interactions. <i>Physical Review E</i> , 2013, 88, 042313.	0.8	20
182	Confined colloidal crystals in and out of equilibrium. <i>European Physical Journal: Special Topics</i> , 2013, 222, 3011-3022.	1.2	20
183	Introduction to colloidal dispersions in external fields. <i>European Physical Journal: Special Topics</i> , 2013, 222, 2727-2737.	1.2	26
184	Differently shaped hard body colloids in confinement: From passive to active particles. <i>European Physical Journal: Special Topics</i> , 2013, 222, 3023-3037.	1.2	23
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