Julia M Yeomans

List of Publications by Year
in descending order

334	18,448	12330	17105
papers	citations	69 h-index	122 g-index

348	348	348	8707
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Active Extensile Stress Promotes 3D Director Orientations and Flows. Physical Review Letters, 2022, 128, 048001.	7.8	14
2	Fifty years of â€˜More is differentâ€™. Nature Reviews Physics, 2022, 4, 508-510.	26.6	15
3	Bacteria solve the problem of crowding by moving slowly. Nature Physics, 2021, 17, 205-210.	16.7	68
4	Memory effects, arches and polar defect ordering at the cross-over from wet to dry active nematics. Soft Matter, 2021, 17, 2500-2511.	2.7	11
5	ACTIVE NEMATICS AT INTERFACES AND SURFACES. , 2021, , .		0
6	Investigating the nature of active forces in tissues reveals how contractile cells can form extensile monolayers. Nature Materials, 2021, 20, 1156-1166.	27.5	69
7	Activity pulses induce spontaneous flow reversals in viscoelastic environments. Journal of the Royal Society Interface, 2021, 18, 20210100.	3.4	5
8	Morphology of Active Deformable 3D Droplets. Physical Review X, 2021, 11, .	8.9	11
9	Fluid flows on many scales. Nature Physics, 2021, 17, 756-756.	16.7	1
10	Submersed micropatterned structures control active nematic flow, topology, and concentration. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	33
11	Coupling Turing stripes to active flows. Soft Matter, 2021, 17, 10716-10722.	2.7	6
12	Flow transitions and length scales of a channel-confined active nematic. Soft Matter, 2021, 17, 10640-10648.	2.7	11
13	Flow States and Transitions of an Active Nematic in a Three-Dimensional Channel. Physical Review Letters, 2020, 125, 148002.	7.8	30
14	Mesoscale modelling of polymer aggregate digestion. Current Research in Food Science, 2020, 3, 122-133.	5.8	4
15	Active inter-cellular forces in collective cell motility. Journal of the Royal Society Interface, 2020, 17, 20200312.	3.4	14
16	Collective chemotaxis of active nematic droplets. Physical Review E, 2020, 102, 020601.	2.1	7
17	Role of Friction in Multidefect Ordering. Physical Review Letters, 2020, 125, 218004.	7.8	25
18	Degenerate states, emergent dynamics and fluid mixing by magnetic rotors. Soft Matter, 2020, 16, 6484-6492.	2.7	6

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19	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	1.8	242
20	Activity Induced Nematic Order in Isotropic Liquid Crystals. Journal of Statistical Physics, 2020, 180, 699-709.	1.2	25
21	Polar jets of swimming bacteria condensed by a patterned liquid crystal. Nature Physics, 2020, 16, 481-487.	16.7	51
22	Active nematics with anisotropic friction: the decisive role of the flow aligning parameter. Soft Matter, 2020, 16, 2065-2074.	2.7	23
23	Active matter in a viscoelastic environment. Physical Review Fluids, 2020, 5, .	2.5	14
24	MicroMotility: State of the art, recent accomplishments and perspectives on the mathematical modeling of bio-motility at microscopic scales. Mathematics in Engineering, 2020, 2, 230-252.	0.9	3
25	Sustained Oscillations of Epithelial Cell Sheets. Biophysical Journal, 2019, 117, 464-478.	0.5	100
26	Dynamics of individual Brownian rods in a microchannel flow. Soft Matter, 2019, 15, 5810-5814.	2.7	15
27	Controlling collective rotational patterns of magnetic rotors. Nature Communications, 2019, 10, 4696.	12.8	23
28	Reconfigurable flows and defect landscape of confined active nematics. Communications Physics, 2019, 2, .	5.3	60
29	Active matter invasion. Soft Matter, 2019, 15, 7538-7546.	2.7	15
30	Driven spheres, ellipsoids and rods in explicitly modeled polymer solutions. Journal of Physics Condensed Matter, 2019, 31, 234001.	1.8	7
31	Active transport in a channel: stabilisation by flow or thermodynamics. Soft Matter, 2019, 15, 1597-1604.	2.7	25
32	Emergence of Active Nematic Behavior in Monolayers of Isotropic Cells. Physical Review Letters, 2019, 122, 048004.	7.8	107
33	Coherent motion of dense active matter. European Physical Journal: Special Topics, 2019, 227, 2401-2411.	2.6	21
34	Magnetically-actuated artificial cilium: a simple theoretical model. Soft Matter, 2019, 15, 3864-3871.	2.7	21
35	Enhanced bacterial swimming speeds in macromolecular polymer solutions. Nature Physics, 2019, 15, 554-558.	16.7	90
36	Topological states in chiral active matter: Dynamic blue phases and active half-skyrmions. Journal of Chemical Physics, 2019, 150, 064909.	3.0	24

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37	Topology and Morphology of Self-Deforming Active Shells. Physical Review Letters, 2019, 123, 208001.	7.8	47
38	10.1063/1.5085282.1. , 2019, , .		0
39	10.1063/1.5085282.6. , 2019, , .		0
40	Exopolymer Dynamics Driven by Sessile Flagellates. Biophysical Journal, 2018, 114, 514a.	0.5	0
41	Far-field theory for trajectories of magnetic ellipsoids in rectangular and circular channels. IMA Journal of Applied Mathematics, 2018, 83, 767-782.	1.6	10
42	Twist-induced crossover from two-dimensional to three-dimensional turbulence in active nematics. Physical Review E, 2018, 98, 010601.	2.1	29
43	Two-dimensional, blue phase tactoids. Molecular Physics, 2018, 116, 2856-2863.	1.7	6
44	Active nematics. Nature Communications, 2018, 9, 3246.	12.8	414
45	A solvable model of axisymmetric and non-axisymmetric droplet bouncing. Soft Matter, 2017, 13, 985-994.	2.7	6
46	Topological defects in epithelia govern cell death and extrusion. Nature, 2017, 544, 212-216.	27.8	511
47	Natureâ€™s engines: active matter. Europhysics News, 2017, 48, 21-25.	0.3	15
48	Onset of meso-scale turbulence in active nematics. Nature Communications, 2017, 8, 15326.	12.8	120
49	Special issue on complex fluids at structured surfaces. Journal of Physics Condensed Matter, 2017, 29, 180301.	1.8	0
50	Multi-scale statistics of turbulence motorized by active matter. Journal of Fluid Mechanics, 2017, 822, 762-773.	3.4	43
51	Dancing disclinations in confined active nematics. Soft Matter, 2017, 13, 3853-3862.	2.7	90
52	The macroscopic pancake bounce. European Journal of Physics, 2017, 38, 015006.	0.6	9
53	Electric-field-induced shape transition of nematic tactoids. Physical Review E, 2017, 96, 022706.	2.1	18
54	Using evaporation to control capillary instabilities in micro-systems. Soft Matter, 2017, 13, 8947-8956.	2.7	6

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55	Focusing and Sorting of Ellipsoidal Magnetic Particles in Microchannels. Physical Review Letters, 2017, 119, 198002.	7.8	39
56	Variation of the Contact Time of Droplets Bouncing on Cylindrical Ridges with Ridge Size. Langmuir, 2017, 33, 7583-7587.	3.5	52
57	Entrainment and scattering in microswimmer-colloid interactions. Physical Review Fluids, 2017, 2, .	2.5	17
58	Biopolymer dynamics driven by helical flagella. Physical Review Fluids, 2017, 2, .	2.5	9
59	Pore emptying transition during nucleation in hydrophobic nanopores. Soft Matter, 2016, 12, 3810-3819.	2.7	2
60	Hydrodynamics of micro-swimmers in films. Journal of Fluid Mechanics, 2016, 806, 35-70.	3.4	65
61	Translocation of Short Polymers through a Sieve. Biophysical Journal, 2016, 110, 505a.	0.5	0
62	Collective and convective effects compete in patterns of dissolving surface droplets. Soft Matter, 2016, 12, 5787-5796.	2.7	37
63	Active turbulence in active nematics. European Physical Journal: Special Topics, 2016, 225, 651-662.	2.6	53
64	Defect-Mediated Morphologies in Growing Cell Colonies. Physical Review Letters, 2016, 117, 048102.	7.8	114
65	Upstream Swimming in Microbiological Flows. Physical Review Letters, 2016, 116, 028104.	7.8	84
66	Active micromachines: Microfluidics powered by mesoscale turbulence. Science Advances, 2016, 2, e1501854.	10.3	63
67	Hotspots of boundary accumulation: dynamics and statistics of micro-swimmers in flowing films. Journal of the Royal Society Interface, 2016, 13, 20150936.	3.4	28
68	Stabilization of active matter by flow-vortex lattices and defect ordering. Nature Communications, 2016, 7, 10557.	12.8	115
69	Tracer trajectories and displacement due to a micro-swimmer near a surface. Journal of Fluid Mechanics, 2015, 773, 498-519.	3.4	37
70	Thermal Analog of Gimbal Lock in a Colloidal Ferromagnetic Janus Rod. Physical Review Letters, 2015, 115, 248301.	7.8	9
71	Multi-particle collision dynamics algorithm for nematic fluids. Soft Matter, 2015, 11, 5101-5110.	2.7	22
72	Symmetry breaking in drop bouncing on curved surfaces. Nature Communications, 2015, 6, 10034.	12.8	340

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73	Intrinsic free energy in active nematics. Europhysics Letters, 2015, 112, 28004.	2.0	36
74	Celebrating Soft Matter's 10th Anniversary: Cell division: a source of active stress in cellular monolayers. Soft Matter, 2015, 11, 7328-7336.	2.7	82
75	Driven active and passive nematics. Molecular Physics, 2015, 113, 2656-2665.	1.7	14
76	Instabilities and topological defects in active nematics. Europhysics Letters, 2014, 105, 18001.	2.0	111
77	Stirring by swimmers in confined microenvironments. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P04030.	2.3	20
78	An introduction to the hydrodynamics of swimming microorganisms. European Physical Journal: Special Topics, 2014, 223, 1771-1785.	2.6	53
79	Vorticity, defects and correlations in active turbulence. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130366.	3.4	99
80	Biphasic, Lyotropic, Active Nematics. Physical Review Letters, 2014, 113, 248303.	7.8	81
81	Active nematic materials with substrate friction. Physical Review E, 2014, 90, 062307.	2.1	48
82	Pancake Bouncing: Simulations and Theory and Experimental Verification. Langmuir, 2014, 30, 13021-13032.	3.5	75
83	Playful topology. Nature Materials, 2014, 13, 1004-1005.	27.5	20
84	Lattice-Boltzmann simulations of droplet evaporation. Soft Matter, 2014, 10, 8267-8275.	2.7	67
85	Pancake bouncing on superhydrophobic surfaces. Nature Physics, 2014, 10, 515-519.	16.7	748
86	Viscous fingering at ultralow interfacial tension. Soft Matter, 2013, 9, 10599.	2.7	24
87	Active Ciliated Surfaces Expel Model Swimmers. Langmuir, 2013, 29, 12770-12776.	3.5	21
88	Velocity Correlations in an Active Nematic. Physical Review Letters, 2013, 111, 118101.	7.8	163
89	Liquid Crystal Microfluidics for Tunable Flow Shaping. Physical Review Letters, 2013, 110, 048303.	7.8	94
90	Fluid transport by individual microswimmers. Journal of Fluid Mechanics, 2013, 726, 5-25.	3.4	78

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91	Modelling unidirectional liquid spreading on slanted microposts. Soft Matter, 2013, 9, 6862.	2.7	12
92	Anisotropic wetting and de-wetting of drops on substrates patterned with polygonal posts. Soft Matter, 2013, 9, 674-683.	2.7	37
93	Confined Active Nematic Flow in Cylindrical Capillaries. Physical Review Letters, 2013, 110, 026001.	7.8	80
94	Enhanced Motility of a Microswimmer in Rigid and Elastic Confinement. Physical Review Letters, 2013, 111, 138101.	7.8	53
95	Fluid Mixing by Curved Trajectories of Microswimmers. Physical Review Letters, 2013, 111, 188101.	7.8	59
96	SURFACE EVOLVER SIMULATIONS OF DROPS ON MICROPOSTS. International Journal of Modern Physics C, 2012, 23, 1240013.	1.7	8
97	Easier sieving through narrower pores: fluctuations and barrier crossing in flow-driven polymer translocation. Soft Matter, 2012, 8, 4306.	2.7	18
98	Length-dependent translocation of polymers through nanochannels. Soft Matter, 2012, 8, 1884-1892.	2.7	42
99	Meso-scale turbulence in living fluids. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14308-14313.	7.1	747
100	A circle swimmer at low Reynolds number. European Physical Journal E, 2012, 35, 70.	1.6	48
101	Anisotropy in the annihilation dynamics of umbilic defects in nematic liquid crystals. Physical Review E, 2012, 85, 021703.	2.1	47
102	Confinement Induced Splay-to-Bend Transition of Colloidal Rods. Physical Review Letters, 2012, 109, 108303.	7.8	40
103	Partial-post laplace barriers for virtual confinement, stable displacement, and >5 cm sâˆ’1 electrowetting transport. Lab on A Chip, 2011, 11, 4221.	6.0	6
104	Confinement of knotted polymers in a slit. Molecular Physics, 2011, 109, 1289-1295.	1.7	20
105	Hydrodynamic synchronization at low Reynolds number. Soft Matter, 2011, 7, 3074.	2.7	151
106	Confining blue phase colloids to thin layers. Soft Matter, 2011, 7, 10144.	2.7	21
107	LÃ©vy fluctuations and mixing in dilute suspensions of algae and bacteria. Journal of the Royal Society Interface, 2011, 8, 1314-1331.	3.4	56
108	Three-dimensional colloidal crystals in liquid crystalline blue phases. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5188-5192.	7.1	205

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109	International Liquid Crystal Conference 2010: across borders and multiscales. Liquid Crystals Today, 2011, 20, 31-33.	2.3	0
110	Anisotropic imbibition on surfaces patterned with polygonal posts. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2519-2527.	3.4	23
111	Mesoscopic modelling of colloids in chiral nematics. Faraday Discussions, 2010, 144, 159-169.	3.2	100
112	CUDA simulations of active dumbbell suspensions. Chemical Physics, 2010, 375, 557-567.	1.9	16
113	Hydrodynamic Interactions at Low Reynolds Number. Experimental Mechanics, 2010, 50, 1283-1292.	2.0	9
114	Blue phases as templates for 3D colloidal photonic crystals. , 2010, , .		2
115	Lattice Boltzmann Simulations of Wetting and Drop Dynamics. Understanding Complex Systems, 2010, , 241-274.	0.6	14
116	Complex dynamics of knotted filaments in shear flow. Europhysics Letters, 2010, 92, 34003.	2.0	11
117	Effect of topology on dynamics of knots in polymers under tension. Europhysics Letters, 2010, 89, 20001.	2.0	34
118	Superhydrophobicity on Hairy Surfaces. Langmuir, 2010, 26, 16071-16083.	3.5	37
119	Modeling Receding Contact Lines on Superhydrophobic Surfaces. Langmuir, 2010, 26, 18162-18168.	3.5	57
120	Drop dynamics on hydrophobic and superhydrophobic surfaces. Faraday Discussions, 2010, 146, 153.	3.2	50
121	Emerging themes in soft matter: responsive and active soft materials. Soft Matter, 2010, 6, 703.	2.7	7
122	Using electrowetting to control interface motion in patterned microchannels. Soft Matter, 2010, 6, 2400.	2.7	7
123	Swimmer-tracer scattering at low Reynolds number. Soft Matter, 2010, 6, 4268.	2.7	49
124	Hydrodynamics of linked sphere model swimmers. Journal of Physics Condensed Matter, 2009, 21, 204108.	1.8	36
125	Knot-Controlled Ejection of a Polymer from a Virus Capsid. Physical Review Letters, 2009, 102, 088101.	7.8	72
126	Spontaneous flow states in active nematics: A unified picture. Europhysics Letters, 2009, 85, 18008.	2.0	96

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127	Hydrodynamic Synchronisation of Model Microswimmers. Journal of Statistical Physics, 2009, 137, 1001-1013.	1.2	22
128	Modelling capillary filling dynamics using lattice Boltzmann simulations. European Physical Journal: Special Topics, 2009, 171, 63-71.	2.6	39
129	Numerical results for the blue phases. Liquid Crystals, 2009, 36, 1215-1227.	2.2	37
130	Imbibition through an array of triangular posts. Journal of Physics Condensed Matter, 2009, 21, 464125.	1.8	34
131	Effect of encapsulated polymers and nanoparticles on shear deformation of droplets. Soft Matter, 2009, 5, 850.	2.7	2
132	Modeling the Corrugation of the Three-Phase Contact Line Perpendicular to a Chemically Striped Substrate. Langmuir, 2009, 25, 8357-8361.	3.5	13
133	Anisotropy of Water Droplets on Single Rectangular Posts. Langmuir, 2009, 25, 5619-5625.	3.5	43
134	Capillary filling in microchannels patterned by posts. Physical Review E, 2009, 80, 056309.	2.1	37
135	Shear and extensional deformation of droplets containing polymers and nanoparticles. Journal of Chemical Physics, 2009, 130, 234905.	3.0	14
136	Anisotropic hysteresis on ratcheted superhydrophobic surfaces. Soft Matter, 2009, 5, 2704.	2.7	29
137	Flow injection of polymers into nanopores. Soft Matter, 2009, 5, 4575.	2.7	42
138	Using the Lattice Boltzmann Algorithm to Explore Phase Ordering in Fluids. , 2009, , 121-152.		1
139	Lattice Boltzmann simulations of spontaneous flow in active liquid crystals: The role of boundary conditions. Journal of Non-Newtonian Fluid Mechanics, 2008, 149, 56-62.	2.4	21
140	Lattice Boltzmann simulation techniques for simulating microscopic swimmers. Computer Physics Communications, 2008, 179, 159-164.	7.5	6
141	Impalement of fakir drops. Europhysics Letters, 2008, 81, 26006.	2.0	273
142	Hydrodynamic of Active Liquid Crystals: A Hybrid Lattice Boltzmann Approach. Molecular Crystals and Liquid Crystals, 2008, 494, 293-308.	0.9	10
143	Contact line dynamics in binary lattice Boltzmann simulations. Physical Review E, 2008, 78, 056709.	2.1	59
144	Ejection Dynamics of Polymeric Chains from Viral Capsids: Effect of Solvent Quality. Biophysical Journal, 2008, 94, 4159-4164.	0.5	40

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145	The collapse transition on superhydrophobic surfaces. Europhysics Letters, 2008, 81, 36003.	2.0	135
146	Designing Synthetic, Pumping Cilia That Switch the Flow Direction in Microchannels. Langmuir, 2008, 24, 12102-12106.	3.5	59
147	Anisotropic Drop Morphologies on Corrugated Surfaces. Langmuir, 2008, 24, 7299-7308.	3.5	147
148	Dumb-bell swimmers. Europhysics Letters, 2008, 83, 34006.	2.0	57
149	Shearing Active Gels Close to the Isotropic-Nematic Transition. Physical Review Letters, 2008, 101, 068102.	7.8	137
150	Capillary filling in patterned channels. Physical Review E, 2008, 77, 067301.	2.1	80
151	Scattering of low-Reynolds-number swimmers. Physical Review E, 2008, 78, 045302.	2.1	40
152	Lattice Boltzmann study of convective drop motion driven by nonlinear chemical kinetics. Physical Review E, 2008, 78, 046308.	2.1	16
153	Modeling Contact Angle Hysteresis on Chemically Patterned and Superhydrophobic Surfaces. Langmuir, 2007, 23, 6019-6032.	3.5	223
154	Modeling microscopic swimmers at low Reynolds number. Journal of Chemical Physics, 2007, 126, 064703.	3.0	93
155	Hydrodynamic Interaction between Two Swimmers at Low Reynolds Number. Physical Review Letters, 2007, 99, 228103.	7.8	152
156	Steady-state hydrodynamic instabilities of active liquid crystals: Hybrid lattice Boltzmann simulations. Physical Review E, 2007, 76, 031921.	2.1	227
157	Hydrodynamics and Rheology of Active Liquid Crystals: A Numerical Investigation. Physical Review Letters, 2007, 98, 118102.	7.8	97
158	Viscoelastic Flows of Cholesteric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 465, 1-14.	0.9	4
159	Controlling Drop Size and Polydispersity Using Chemically Patterned Surfaces. Langmuir, 2007, 23, 956-959.	3.5	37
160	Flexoelectric Blue Phases. Physical Review Letters, 2007, 99, 067801.	7.8	20
161	Shear thinning in dilute polymer solutions. Journal of Chemical Physics, 2006, 125, 194906.	3.0	69
162	Mesoscale simulations: Lattice Boltzmann and particle algorithms. Physica A: Statistical Mechanics and Its Applications, 2006, 369, 159-184.	2.6	86

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163	Lattice Boltzmann simulations of drop dynamics. Mathematics and Computers in Simulation, 2006, 72, 160-164.	4.4	15
164	Stabilizing the blue phases. Physical Review E, 2006, 74, 061706.	2.1	90
165	Droplets on patterned substrates: water off a beetle's back. International Journal for Numerical Methods in Fluids, 2006, 50, 255-261.	1.6	5
166	Drop dynamics on chemically patterned surfaces. Europhysics Letters, 2006, 73, 740-746.	2.0	93
167	Permeative flows in cholesterics: Shear and Poiseuille flows. Journal of Chemical Physics, 2006, 124, 204906.	3.0	12
168	Lattice Boltzmann simulations of phase separation in chemically reactive binary fluids. Physical Review E, 2006, 73, 066124.	2.1	20
169	Electric-field-induced disclination migration in a Grandjean-Cano wedge. Journal of Applied Physics, 2006, 99, 064911.	2.5	7
170	Dynamics of sliding drops on superhydrophobic surfaces. Europhysics Letters, 2006, 75, 105-111.	2.0	24
171	Lattice Boltzmann algorithm to simulate isotropic-nematic emulsions. Physical Review E, 2006, 74, 041708.	2.1	29
172	Polymer Packaging and Ejection in Viral Capsids: Shape Matters. Physical Review Letters, 2006, 96, 208102.	7.8	112
173	Shear dynamics in cholesterics. Computer Physics Communications, 2005, 169, 122-125.	7.5	4
174	Modeling Droplets on Superhydrophobic Surfaces:Â Equilibrium States and Transitions. Langmuir, 2005, 21, 2624-2629.	3.5	208
175	Droplet dynamics on patterned substrates. Pramana - Journal of Physics, 2005, 64, 1019-1027.	1.8	6
176	Switching hydrodynamics in multi-domain, twisted nematic, liquid-crystal devices. Europhysics Letters, 2005, 71, 604-610.	2.0	8
177	Lattice Boltzmann Simulations of Cholesteric Liquid Crystals: Permeative Flows, Doubly Twisted Textures and Cubic Blue Phases. Molecular Crystals and Liquid Crystals, 2005, 435, 185/[845]-198/[858].	0.9	4
178	Modeling a tethered polymer in Poiseuille flow. Journal of Chemical Physics, 2005, 122, 164903.	3.0	44
179	Pattern formation arising from condensation of a homogeneous gas into a binary, phase-separating liquid. Physical Review E, 2005, 72, 021505.	2.1	3
180	Rheology of Cholesteric Blue Phases. Physical Review Letters, 2005, 95, 097801.	7.8	33

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181	Kinetics of the polymer collapse transition: The role of hydrodynamics. Physical Review E, 2005, 71, 061804.	2.1	76
182	Polymer translocation: The effect of backflow. Journal of Chemical Physics, 2005, 123, 234903.	3.0	29
183	Control of drop positioning using chemical patterning. Applied Physics Letters, 2005, 87, 024103.	3.3	34
184	Modeling the flow of fluid/particle mixtures in microchannels: Encapsulating nanoparticles within monodisperse droplets. Journal of Chemical Physics, 2005, 123, 224706.	3.0	36
185	A Coarse Grained Model for DNA and Polymer Packaging: Statics and Dynamics. Journal of Theoretical Medicine, 2005, 6, 115-117.	0.5	3
186	Numerical calculations of the phase diagram of cubic blue phases in cholesteric liquid crystals. Physical Review E, 2005, 71, 011703.	2.1	49
187	Kinetic Theory Derivation of the Transport Coefficients of Stochastic Rotation Dynamicsâ€. Journal of Physical Chemistry B, 2005, 109, 6505-6513.	2.6	67
188	Lattice Boltzmann simulations of contact line motion. II. Binary fluids. Physical Review E, 2004, 69, 031603.	2.1	152
189	Permeative Flows in Cholesteric Liquid Crystals. Physical Review Letters, 2004, 92, 188301.	7.8	45
190	Dynamics of polymer packaging. Journal of Chemical Physics, 2004, 121, 8635.	3.0	69
191	Pattern Formation in Binary Fluids Confined between Rough, Chemically Heterogeneous Surfaces. Physical Review Letters, 2004, 93, 184501.	7.8	30
192	Lattice Boltzmann simulations of contact line motion. I. Liquid-gas systems. Physical Review E, 2004, 69, 031602.	2.1	206
193	Stripe Formation in Differentially Forced Binary Systems. Physical Review Letters, 2004, 93, 118001.	7.8	36
194	Interplay between shear flow and elastic deformations in liquid crystals. Journal of Chemical Physics, 2004, 121, 582.	3.0	23
195	Lattice Boltzmann algorithm for threeâ€“dimensional liquidâ€“crystal hydrodynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 1745-1754.	3.4	98
196	Mesoscopic Modelling of Droplets on Topologically Patterned Substrates. Lecture Notes in Computer Science, 2004, , 556-563.	1.3	4
197	Lattice Boltzmann modelling of droplets on chemically heterogeneous surfaces. Future Generation Computer Systems, 2004, 20, 993-1001.	7.5	80
198	Acoustic enhancement of diffusion in a porous material. Ultrasonics, 2003, 41, 531-538.	3.9	15

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199	Anisotropy of domain growth in nematic liquid crystals. Liquid Crystals, 2003, 30, 1455-1462.	2.2	11
200	Lattice Boltzmann simulations of attenuation-driven acoustic streaming. Journal of Physics A, 2003, 36, 5683-5694.	1.6	36
201	Jetting Micron-Scale Droplets onto Chemically Heterogeneous Surfaces. Langmuir, 2003, 19, 9818-9822.	3.5	98
202	Transport coefficients of a mesoscopic fluid dynamics model. Journal of Chemical Physics, 2003, 119, 6388-6395.	3.0	178
203	Hydrodynamics of domain growth in nematic liquid crystals. Physical Review E, 2003, 67, 051705.	2.1	43
204	Periodic Droplet Formation in Chemically Patterned Microchannels. Physical Review Letters, 2003, 91, 108303.	7.8	40
205	Rheology of distorted nematic liquid crystals. Europhysics Letters, 2003, 64, 406-412.	2.0	21
206	Droplet Spreading on Heterogeneous Surfaces Using a Three-Dimensional Lattice Boltzmann Model. Lecture Notes in Computer Science, 2003, , 1024-1033.	1.3	3
207	Using patterned substrates to promote mixing in microchannels. Physical Review E, 2002, 65, 031502.	2.1	36
208	Hydrodynamics of Topological Defects in Nematic Liquid Crystals. Physical Review Letters, 2002, 88, 105504.	7.8	168
209	Phase separation of a binary fluid in the presence of immobile particles: A lattice Boltzmann approach. Journal of Chemical Physics, 2002, 116, 6305-6310.	3.0	31
210	Lattice Boltzmann simulations of contact line motion in a liquid-gas system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2002, 360, 485-495.	3.4	133
211	Modeling nematohydrodynamics in liquid crystal devices. Computer Physics Communications, 2002, 147, 7-12.	7.5	6
212	Domain Motion in Confined Liquid Crystals. Journal of Statistical Physics, 2002, 107, 187-202.	1.2	16
213	Polymer collapse in the presence of hydrodynamic interactions. European Physical Journal E, 2002, 9, 63-66.	1.6	78
214	Creating Localized Mixing Stations within Microfluidic Channels. Langmuir, 2001, 17, 7186-7190.	3.5	22
215	Effect of Stationary Particles on the Phase Separation of Binary Fluids. Materials Research Society Symposia Proceedings, 2001, 710, 1.	0.1	0
216	Simulations of liquid crystals in Poiseuille flow. Computational and Theoretical Polymer Science, 2001, 11, 389-395.	1.1	28

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217	Lattice Boltzmann simulations of liquid crystal hydrodynamics. Physical Review E, 2001, 63, 056702.	2.1	176
218	Flexoelectric Surface Switching of Bistable Nematic Devices. Physical Review Letters, 2001, 87, 275505.	7.8	41
219	Phase ordering in nematic liquid crystals. Physical Review E, 2001, 64, 021701.	2.1	33
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