

# Spontaneous motion in hierarchically assembled active

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Liquid crystal research highlights. <i>Liquid Crystals Today</i> , 2012, 21, 81-82.	2.3	1
2	Spontaneous flows and self-propelled drops. <i>Nature</i> , 2012, 491, 340-341.	13.7	13
3	Lab-made droplets roll themselves. <i>Nature</i> , 2012, , .	13.7	0
4	Hydrodynamics of soft active matter. <i>Reviews of Modern Physics</i> , 2013, 85, 1143-1189.	16.4	2,904
5	Tuning active emulsion dynamics via surfactants and topology. <i>European Physical Journal E</i> , 2013, 36, 91.	0.7	45
6	Molecular motors robustly drive active gels to a critically connected state. <i>Nature Physics</i> , 2013, 9, 591-597.	6.5	188
7	Microscopic theory of anomalous diffusion based on particle interactions. <i>Physical Review E</i> , 2013, 88, 022108.	0.8	23
8	Towards the void. <i>Nature Materials</i> , 2013, 12, 783-784.	13.3	1
9	Active suspensions and their nonlinear models. <i>Comptes Rendus Physique</i> , 2013, 14, 497-517.	0.3	206
10	Emergence of macroscopic directed motion in populations of motile colloids. <i>Nature</i> , 2013, 503, 95-98.	13.7	714
11	On a roll. <i>Nature</i> , 2013, 503, 43-44.	13.7	3
12	Colloid Science Collides with Liquid Crystals. <i>Science</i> , 2013, 342, 1326-1327.	6.0	7
13	Velocity Correlations in an Active Nematic. <i>Physical Review Letters</i> , 2013, 111, 118101.	2.9	163
14	Mush rather than machine. <i>Nature Materials</i> , 2013, 12, 184-185.	13.3	40
15	Emergent complexity of the cytoskeleton: from single filaments to tissue. <i>Advances in Physics</i> , 2013, 62, 1-112.	35.9	182
16	Defect Annihilation and Proliferation in Active Nematics. <i>Physical Review Letters</i> , 2013, 110, 228101.	2.9	250
17	Rapid detection of bacterial resistance to antibiotics using AFM cantilevers as nanomechanical sensors. <i>Nature Nanotechnology</i> , 2013, 8, 522-526.	15.6	296
18	Magnetic Control of Protein Spatial Patterning to Direct Microtubule Self-Assembly. <i>ACS Nano</i> , 2013, 7, 9647-9654.	7.3	10

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19	Engineering Oscillating Microtubule Bundles. <i>Methods in Enzymology</i> , 2013, 524, 205-224.	0.4	17
20	Hydrodynamic instabilities provide a generic route to spontaneous biomimetic oscillations in chemomechanically active filaments. <i>Scientific Reports</i> , 2013, 3, 1964.	1.6	57
21	Large fluctuation and Lévy movement of an active deformable particle. <i>Europhysics Letters</i> , 2013, 102, 40012.	0.7	8
22	Single-molecule microscopy using tunable nanoscale confinement. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
23	High-speed holographic microscopy of malaria parasites reveals ambidextrous flagellar waveforms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18769-18774.	3.3	66
24	Cytoplasmic streaming in plant cells emerges naturally by microfilament self-organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14132-14137.	3.3	88
25	Precision platform for convex lens-induced confinement microscopy. <i>Review of Scientific Instruments</i> , 2013, 84, 103704.	0.6	24
26	Subdiffusive transport of fluctuating elastic filaments in cellular flows. <i>Physics of Fluids</i> , 2013, 25, .	1.6	30
27	Understanding collective dynamics of soft active colloids by binary scattering. <i>Physical Review E</i> , 2013, 88, 052309.	0.8	39
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29	Computational Modeling of Kinesin Stepping. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 3439-3445.	2.5	1
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32	Instabilities and topological defects in active nematics. <i>Europhysics Letters</i> , 2014, 105, 18001.	0.7	111
33	Liquid crystal microfluidics: surface, elastic and viscous interactions at microscales. <i>Liquid Crystals Reviews</i> , 2014, 2, 73-110.	1.1	92
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35	Coarse-grained molecular dynamics simulations of depletion-induced interactions for soft matter systems. <i>Journal of Chemical Physics</i> , 2014, 141, 244910.	1.2	21
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37	Vorticity, defects and correlations in active turbulence. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130366.	1.6	99
38	Perspectives in active liquid crystals. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130373.	1.6	9
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46	Irreducible Representations of Oscillatory and Swirling Flows in Active Soft Matter. Physical Review Letters, 2014, 112, 118102.	2.9	62
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50	Tunable dynamics of microtubule-based active isotropic gels. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140142.	1.6	87
51	The biology of boundary conditions: cellular reconstitution in one, two, and three dimensions. Current Opinion in Cell Biology, 2014, 26, 60-68.	2.6	28
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61	Emergent mechanics of biological structures. <i>Molecular Biology of the Cell</i> , 2014, 25, 3461-3465.	0.9	46
62	Fluid flows created by swimming bacteria drive self-organization in confined suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9733-9738.	3.3	302
63	Spontaneous motility of passive emulsion droplets in polar active gels. <i>Soft Matter</i> , 2014, 10, 7826-7837.	1.2	13
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74	Buckling Instability of Self-Assembled Colloidal Columns. <i>Physical Review Letters</i> , 2014, 113, 138301.	2.9	8
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77	Modular approach for modeling cell motility. <i>European Physical Journal: Special Topics</i> , 2014, 223, 1265-1277.	1.2	24
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88	Motility of active fluid drops on surfaces. <i>Physical Review E</i> , 2015, 92, 062311.	0.8	26
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100	Run-and-tumble particles, telegrapher's equation and absorption problems with partially reflecting boundaries. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 495003.	0.7	44
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#	ARTICLE	IF	CITATIONS
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