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The wiggling trajectories of bacteria

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#	Paper	IF	Citations
90	Propulsion of microorganisms by a helical flagellum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E338-47	11.5	149
89	Modeling rigid magnetically rotated microswimmers: rotation axes, bistability, and controllability. <i>Physical Review E</i> , 2014 , 90, 063006	2.4	29
88	Minimal geometric requirements for micropropulsion via magnetic rotation. <i>Physical Review E</i> , 2014 , 90, 033007	2.4	59
87	Computationally-validated surrogate models for optimal geometric design of bio-inspired swimming robots: Helical swimmers. <i>Computers and Fluids</i> , 2014 , 99, 190-198	2.8	10
86	Improved Kinematic Models for Two-Link Helical Micro/Nanoswimmers. <i>IEEE Transactions on Robotics</i> , 2014 , 30, 14-25	6.5	15
85	Fluid mechanics of swimming bacteria with multiple flagella. <i>Physical Review E</i> , 2014 , 89, 042704	2.4	25
84	Running and tumbling with <i>E. coli</i> in polymeric solutions. <i>Scientific Reports</i> , 2015 , 5, 15761	4.9	100
83	Mixing in an enclosed microfluidic chamber through moving boundary motions. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 711-720	2.8	8
82	Shear-induced orientational dynamics and spatial heterogeneity in suspensions of motile phytoplankton. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	31
81	A Theorem on the Surface Traction Field in Potential Representations of Stokes Flow. <i>SIAM Journal on Applied Mathematics</i> , 2015 , 75, 1578-1598	1.8	5
80	Magnetization directions and geometries of helical microswimmers for linear velocity-frequency response. <i>Physical Review E</i> , 2015 , 91, 043011	2.4	22
79	Physics of microswimmers--single particle motion and collective behavior: a review. <i>Reports on Progress in Physics</i> , 2015 , 78, 056601	14.4	764
78	Using confined bacteria as building blocks to generate fluid flow. <i>Lab on A Chip</i> , 2015 , 15, 4555-62	7.2	15
77	Variation in swimming speed of <i>Escherichia coli</i> in response to attractant. <i>Archives of Microbiology</i> , 2015 , 197, 211-22	3	9
76	Physical Forces Shape Group Identity of Swimming Cells. <i>Frontiers in Microbiology</i> , 2016 , 7, 1437	5.7	12
75	Choice of computational method for swimming and pumping with nonslender helical filaments at low Reynolds number. <i>Physics of Fluids</i> , 2016 , 28, 021901	4.4	20
74	<i>Helicobacter pylori</i> strains vary cell shape and flagellum number to maintain robust motility in viscous environments. <i>Molecular Microbiology</i> , 2016 , 99, 88-110	4.1	45

73	Helical and rod-shaped bacteria swim in helical trajectories with little additional propulsion from helical shape. <i>Science Advances</i> , 2016 , 2, e1601661	14.3	45
72	Enhancement of Swimming Speed Leads to a More-Efficient Chemotactic Response to Repellent. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 1205-1214	4.8	9
71	Bacterial Hydrodynamics. <i>Annual Review of Fluid Mechanics</i> , 2016 , 48, 105-130	22	231
70	Traction reveals mechanisms of wall effects for microswimmers near boundaries. <i>Physical Review E</i> , 2017 , 95, 033105	2.4	5
69	Buckling Instabilities and Complex Trajectories in a Simple Model of Uniflagellar Bacteria. <i>Biophysical Journal</i> , 2017 , 112, 1010-1022	2.9	9
68	Robotically controlled microprey to resolve initial attack modes preceding phagocytosis. <i>Science Robotics</i> , 2017 , 2,	18.6	37
67	Bacteria-inspired nanorobots with flagellar polymorphic transformations and bundling. <i>Scientific Reports</i> , 2017 , 7, 14098	4.9	36
66	Autonomously responsive pumping by a bacterial flagellar forest: A mean-field approach. <i>Physical Review E</i> , 2017 , 96, 033107	2.4	1
65	Use of chiral cell shape to ensure highly directional swimming in trypanosomes. <i>PLoS Computational Biology</i> , 2017 , 13, e1005353	5	32
64	Dynamic instability in the hook-flagellum system that triggers bacterial flicks. <i>Physical Review E</i> , 2018 , 97, 012402	2.4	11
63	Autophoretic motion in three dimensions. <i>Soft Matter</i> , 2018 , 14, 3304-3314	3.6	27
62	Hydrodynamic Impedance of Bacteria and Bacteria-Inspired Micro-Swimmers: A New Strategy to Predict Power Consumption of Swimming Micro-Robots for Real-Time Applications. <i>Advanced Theory and Simulations</i> , 2018 , 1, 1700013	3.5	8
61	Trajectory of a model bacterium. <i>Journal of Fluid Mechanics</i> , 2018 , 835, 252-270	3.7	5
60	Impacts of multiflagellarity on stability and speed of bacterial locomotion. <i>Physical Review E</i> , 2018 , 98,	2.4	10
59	Bipolar lophotrichous <i>Helicobacter suis</i> combine extended and wrapped flagella bundles to exhibit multiple modes of motility. <i>Scientific Reports</i> , 2018 , 8, 14415	4.9	19
58	Flagellar number governs bacterial spreading and transport efficiency. <i>Science Advances</i> , 2018 , 4, eaar64253	14.3	20
57	Hook length of the bacterial flagellum is optimized for maximal stability of the flagellar bundle. <i>PLoS Biology</i> , 2018 , 16, e2006989	9.7	15
56	An elastohydrodynamical simulation study of filament and spermatozoan swimming driven by internal couples. <i>IMA Journal of Applied Mathematics</i> , 2018 , 83, 655-679	1	16

55	Swimming of peritrichous bacteria is enabled by an elastohydrodynamic instability. <i>Scientific Reports</i> , 2018 , 8, 10728	4.9	35
54	Viscous constraints on microorganism approach and interaction. <i>Journal of Fluid Mechanics</i> , 2018 , 851, 715-738	3.7	7
53	Trajectories of magnetically-actuated helical swimmers in cylindrical channels at low Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2019 , 90, 164-176	3.1	2
52	Oscillatory surface rheotaxis of swimming E. coli bacteria. <i>Nature Communications</i> , 2019 , 10, 3434	17.4	36
51	Swimming bacteria in Poiseuille flow: The quest for active Bretherton-Jeffery trajectories. <i>Europhysics Letters</i> , 2019 , 126, 44003	1.6	12
50	Transition to bound states for bacteria swimming near surfaces. <i>Physical Review E</i> , 2019 , 100, 043117	2.4	4
49	Bent Bacteria: A Comparison of Cell Shape Mechanisms in. <i>Annual Review of Microbiology</i> , 2019 , 73, 457-489	4.9	16
48	Microswimmer Propulsion by Two Steadily Rotating Helical Flagella. <i>Micromachines</i> , 2019 , 10,	3.3	11
47	Swimming of bacterium <i>Bacillus subtilis</i> with multiple bundles of flagella. <i>Soft Matter</i> , 2019 , 15, 10029-10034	3.4	3
46	Swimming with magnets: From biological organisms to synthetic devices. <i>Physics Reports</i> , 2019 , 789, 1-54	27.7	47
45	Motility Is Blocked by Drug-Free Thermosensitive Hydrogel. <i>ACS Infectious Diseases</i> , 2020 , 6, 114-123	5.5	3
44	Large deformations of the hook affect free-swimming singly flagellated bacteria during flick motility. <i>Physical Review E</i> , 2020 , 102, 033115	2.4	0
43	Preface. 2020 , xi-xiv		
42	Fundamentals. 2020 , 1-2		
41	Biological Background. 2020 , 3-11		
40	The Fluid Dynamics of Microscopic Locomotion. 2020 , 12-28		
39	The Waving Sheet Model. 2020 , 29-44		
38	The Squirmer Model. 2020 , 45-62		

37 Cellular Locomotion. **2020**, 63-64

36 Flagella and the Physics of Viscous Propulsion. **2020**, 65-76

35 Hydrodynamics of Slender Filaments. **2020**, 77-96

34 Waving of Eukaryotic Flagella. **2020**, 97-119

33 Rotation of Bacterial Flagellar Filaments. **2020**, 120-138

32 Flows and Stresses Induced by Cells. **2020**, 139-156

31 INTERACTIONS. **2020**, 157-158

30 Swimming Cells in Flows. **2020**, 159-185

29 Self-Propulsion and Surfaces. **2020**, 186-225

28 Hydrodynamic Synchronisation. **2020**, 226-268

27 Diffusion and Noisy Swimming. **2020**, 269-290

26 Hydrodynamics of Collective Locomotion. **2020**, 291-314

25 Locomotion and Transport in Complex Fluids. **2020**, 315-352

24 References. **2020**, 353-370

23 Index. **2020**, 371-376

22 Wall entrapment of peritrichous bacteria: a mesoscale hydrodynamics simulation study. *Soft Matter*, **2020**, 16, 4866-4875 3.6 9

21 Stability of Soft Magnetic Helical Microrobots. *Fluids*, **2020**, 5, 19 1.6 4

20 Bioinspired reorientation strategies for application in micro/nanorobotic control. *Journal of Micro-Bio Robotics*, **2020**, 16, 173-197 1.4 3

19	Transport barriers to self-propelled particles in fluid flows. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	2
18	Effect of ligand sensing on flagellar bundle formation in bacteria.		
17	Stokesian dynamics simulations of a magnetotactic bacterium. <i>European Physical Journal E</i> , 2021 , 44, 40	1.5	0
16	Influence of thermal fluctuations on active diffusion at large Péclet numbers. <i>Physics of Fluids</i> , 2021 , 33, 051904	4.4	1
15	Numerical simulation of bundling of helical elastic rods in a viscous fluid. <i>Computers and Fluids</i> , 2021 , 228, 105038	2.8	2
14	The Fluid Dynamics of Cell Motility. 2020 ,		26
13	Dynamics of a microswimmer-microplatelet composite. <i>Physics of Fluids</i> , 2020 , 32, 021902	4.4	6
12	Bundled slender-body theory for elongated geometries in swimming bacteria. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	2
11	Flagellar arrangements in elongated peritrichous bacteria: bundle formation and swimming properties. <i>European Physical Journal E</i> , 2021 , 44, 17	1.5	0
10	Can the mechanoreceptional setae of a feeding-current feeding copepod detect hydrodynamic disturbance induced by entrained free-floating prey?. <i>Limnology and Oceanography</i> , 2021 , 66, 4096	4.8	0
9	Helical trajectories of swimming cells with a flexible flagellar hook. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	
8	Hook-length of the bacterial flagellum is optimized for maximal stability of the flagellar bundle.		
7	The Role of the Double-Layer Potential in Regularised Stokeslet Models of Self-Propulsion. <i>Fluids</i> , 2021 , 6, 411	1.6	
6	Swimmer dynamics in externally driven fluid flows: The role of noise. <i>Physical Review Fluids</i> , 2022 , 7,	2.8	0
5	Noise-Induced Aggregation of Swimmers in the Kolmogorov Flow. <i>Frontiers in Physics</i> , 2022 , 9,	3.9	0
4	The colloidal nature of complex fluids enhances bacterial motility.. <i>Nature</i> , 2022 , 603, 819-823	50.4	4
3	Bending stiffness characterization of Bacillus subtilis flagellar filament.. <i>Biophysical Journal</i> , 2022 ,	2.9	
2	Bacteria-Inspired Magnetically Actuated Rod-Like Soft Robot in Viscous Fluids.		0

1 Modeling creeping flows in porous media using regularized Stokeslets. **2022**, 7,

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