

Eric Lauga

List of Publications by Year in descending order

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226
papers

14,755
citations

29994

54
h-index

20900

115
g-index

239
all docs

239
docs citations

239
times ranked

7924
citing authors

#	ARTICLE	IF	CITATIONS
1	The hydrodynamics of swimming microorganisms. Reports on Progress in Physics, 2009, 72, 096601.	8.1	1,891
2	Swimming in Circles: Motion of Bacteria near Solid Boundaries. Biophysical Journal, 2006, 90, 400-412.	0.2	805
3	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft microrobots. Nature Materials, 2016, 15, 647-653.	13.3	757
4	Hydrodynamic Attraction of Swimming Microorganisms by Surfaces. Physical Review Letters, 2008, 101, 038102.	2.9	641
5	Effective slip in pressure-driven Stokes flow. Journal of Fluid Mechanics, 2003, 489, 55-77.	1.4	640
6	Cargo-towing Fuel-free Magnetic Nanoswimmers for Targeted Drug Delivery. Small, 2012, 8, 460-467.	5.2	393
7	Hydrodynamics of self-propulsion near a boundary: predictions and accuracy of far-field approximations. Journal of Fluid Mechanics, 2012, 700, 105-147.	1.4	378
8	Bacterial Hydrodynamics. Annual Review of Fluid Mechanics, 2016, 48, 105-130.	10.8	334
9	Propulsion in a viscoelastic fluid. Physics of Fluids, 2007, 19, .	1.6	271
10	Microfluidics: The No-Slip Boundary Condition. , 2007, , 1219-1240.		267
11	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	0.7	242
12	A smooth future?. Nature Materials, 2011, 10, 334-337.	13.3	238
13	Adaptive locomotion of artificial microswimmers. Science Advances, 2019, 5, eaau1532.	4.7	203
14	High-speed propulsion of flexible nanowire motors: Theory and experiments. Soft Matter, 2011, 7, 8169.	1.2	195
15	Life around the scallop theorem. Soft Matter, 2011, 7, 3060-3065.	1.2	186
16	Spontaneous autophoretic motion of isotropic particles. Physics of Fluids, 2013, 25, .	1.6	179
17	Phoretic self-propulsion at finite Péclet numbers. Journal of Fluid Mechanics, 2014, 747, 572-604.	1.4	161
18	Self-propulsion in viscoelastic fluids: Pushers vs. pullers. Physics of Fluids, 2012, 24, .	1.6	152

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19	Experimental investigations of elastic tail propulsion at low Reynolds number. <i>Physics of Fluids</i> , 2006, 18, 091701.	1.6	148
20	Geometric capture and escape of a microswimmer colliding with an obstacle. <i>Soft Matter</i> , 2015, 11, 3396-3411.	1.2	143
21	Geometric transition in friction for flow over a bubble mattress. <i>Physics of Fluids</i> , 2009, 21, .	1.6	139
22	Dynamics of swimming bacteria at complex interfaces. <i>Physics of Fluids</i> , 2014, 26, .	1.6	133
23	Generalized squirming motion of a sphere. <i>Journal of Engineering Mathematics</i> , 2014, 88, 1-28.	0.6	129
24	Waving transport and propulsion in a generalized Newtonian fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 199, 37-50.	1.0	116
25	Efficiency optimization and symmetry-breaking in a model of ciliary locomotion. <i>Physics of Fluids</i> , 2010, 22, .	1.6	115
26	Dynamic mechanisms for apparent slip on hydrophobic surfaces. <i>Physical Review E</i> , 2004, 70, 026311.	0.8	112
27	Hydrodynamics of Confined Active Fluids. <i>Physical Review Letters</i> , 2013, 110, 038101.	2.9	111
28	Hydrodynamic friction of fakir-like superhydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2010, 661, 402-411.	1.4	110
29	Hydrodynamic Phase Locking of Swimming Microorganisms. <i>Physical Review Letters</i> , 2009, 103, 088101.	2.9	109
30	Asymmetric steady streaming as a mechanism for acoustic propulsion of rigid bodies. <i>Physics of Fluids</i> , 2014, 26, .	1.6	109
31	Oriental order in concentrated suspensions of spherical microswimmers. <i>Physics of Fluids</i> , 2011, 23, .	1.6	103
32	Floppy swimming: Viscous locomotion of actuated elastica. <i>Physical Review E</i> , 2007, 75, 041916.	0.8	98
33	Evaporation-Driven Assembly of Colloidal Particles. <i>Physical Review Letters</i> , 2004, 93, 238301.	2.9	97
34	Soft Swimming: Exploiting Deformable Interfaces for Low Reynolds Number Locomotion. <i>Physical Review Letters</i> , 2008, 101, 048102.	2.9	90
35	Kinematics of the Most Efficient Cilium. <i>Physical Review Letters</i> , 2012, 109, 038101.	2.9	87
36	Viscous Marangoni propulsion. <i>Journal of Fluid Mechanics</i> , 2012, 705, 120-133.	1.4	87

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37	Brownian motion near a partial-slip boundary: A local probe of the no-slip condition. <i>Physics of Fluids</i> , 2005, 17, 103102.	1.6	84
38	No many-scallop theorem: Collective locomotion of reciprocal swimmers. <i>Physical Review E</i> , 2008, 78, 030901.	0.8	84
39	Fluid elasticity increases the locomotion of flexible swimmers. <i>Physics of Fluids</i> , 2013, 25, .	1.6	83
40	Micropropulsion and microrheology in complex fluids via symmetry breaking. <i>Physics of Fluids</i> , 2012, 24, .	1.6	79
41	A note on the stability of slip channel flows. <i>Physics of Fluids</i> , 2005, 17, 088106.	1.6	78
42	The optimal elastic flagellum. <i>Physics of Fluids</i> , 2010, 22, .	1.6	78
43	Locomotion by tangential deformation in a polymeric fluid. <i>Physical Review E</i> , 2011, 83, 011901.	0.8	77
44	Comparative Hydrodynamics of Bacterial Polymorphism. <i>Physical Review Letters</i> , 2011, 106, 058103.	2.9	77
45	Enhanced active swimming in viscoelastic fluids. <i>Europhysics Letters</i> , 2014, 108, 34003.	0.7	76
46	Optimal feeding is optimal swimming for all Péclet numbers. <i>Physics of Fluids</i> , 2011, 23, .	1.6	75
47	A squirmer across Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2016, 796, 233-256.	1.4	75
48	Propulsion of Bubble-Based Acoustic Microswimmers. <i>Physical Review Applied</i> , 2015, 4, .	1.5	74
49	Influence of slip on the dynamics of two-dimensional wakes. <i>Journal of Fluid Mechanics</i> , 2009, 633, 437-447.	1.4	73
50	Locomotion in complex fluids: Integral theorems. <i>Physics of Fluids</i> , 2014, 26, .	1.6	70
51	Flapping motion and force generation in a viscoelastic fluid. <i>Physical Review E</i> , 2008, 78, 061907.	0.8	68
52	Dance of the microswimmers. <i>Physics Today</i> , 2012, 65, 30-35.	0.3	66
53	Spontaneous oscillations of elastic filaments induced by molecular motors. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170491.	1.5	64
54	Autophoretic locomotion from geometric asymmetry. <i>European Physical Journal E</i> , 2015, 38, 91.	0.7	61

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55	Light-switchable propulsion of active particles with reversible interactions. Nature Communications, 2020, 11, 2628.	5.8	55
56	Synchronization of flexible sheets. Journal of Fluid Mechanics, 2011, 674, 163-173.	1.4	54
57	Vortices in rotating systems: Centrifugal, elliptic and hyperbolic type instabilities. Physics of Fluids, 1999, 11, 3716-3728.	1.6	52
58	Taylor's swimming sheet: Analysis and improvement of the perturbation series. Physica D: Nonlinear Phenomena, 2011, 240, 1567-1573.	1.3	51
59	Small-amplitude swimmers can self-propel faster in viscoelastic fluids. Journal of Theoretical Biology, 2015, 382, 345-355.	0.8	51
60	Active particles in periodic lattices. New Journal of Physics, 2017, 19, 115001.	1.2	51
61	Three-dimensional flows in slowly varying planar geometries. Physics of Fluids, 2004, 16, 3051-3062.	1.6	50
62	Phase-separation models for swimming enhancement in complex fluids. Physical Review E, 2015, 92, 023004.	0.8	50
63	Cilia metasurfaces for electronically programmable microfluidic manipulation. Nature, 2022, 605, 681-686.	13.7	50
64	Geometric tuning of self-propulsion for Janus catalytic particles. Scientific Reports, 2017, 7, 42264.	1.6	49
65	Pumping by flapping in a viscoelastic fluid. Physical Review E, 2010, 81, 036312.	0.8	48
66	Enhanced Diffusion by Reciprocal Swimming. Physical Review Letters, 2011, 106, 178101.	2.9	48
67	Stochastic dynamics of active swimmers in linear flows. Journal of Fluid Mechanics, 2014, 742, 50-70.	1.4	48
68	Helical propulsion in shear-thinning fluids. Journal of Fluid Mechanics, 2017, 812, .	1.4	48
69	Passive hydrodynamic synchronization of two-dimensional swimming cells. Physics of Fluids, 2011, 23, 011902.	1.6	47
70	Nondecaying Hydrodynamic Interactions along Narrow Channels. Physical Review Letters, 2015, 115, 038301.	2.9	47
71	Microswimming in viscoelastic fluids. Journal of Non-Newtonian Fluid Mechanics, 2021, 297, 104655.	1.0	47
72	Shape of optimal active flagella. Journal of Fluid Mechanics, 2013, 730, .	1.4	46

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73	The boundary integral formulation of Stokes flows includes slender-body theory. <i>Journal of Fluid Mechanics</i> , 2018, 850, .	1.4	46
74	Swimming of peritrichous bacteria is enabled by an elasto-hydrodynamic instability. <i>Scientific Reports</i> , 2018, 8, 10728.	1.6	46
75	The wobbling-to-swimming transition of rotated helices. <i>Physics of Fluids</i> , 2013, 25, .	1.6	45
76	Continuous breakdown of Purcell's scallop theorem with inertia. <i>Physics of Fluids</i> , 2007, 19, 061703.	1.6	44
77	Two-dimensional flagellar synchronization in viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2010, 646, 505-515.	1.4	42
78	Autophoretic motion in three dimensions. <i>Soft Matter</i> , 2018, 14, 3304-3314.	1.2	42
79	Shape-programmed 3D printed swimming microtori for the transport of passive and active agents. <i>Nature Communications</i> , 2019, 10, 4932.	5.8	42
80	The friction of a mesh-like super-hydrophobic surface. <i>Physics of Fluids</i> , 2009, 21, .	1.6	40
81	Propulsion by passive filaments and active flagella near boundaries. <i>Physical Review E</i> , 2010, 82, 041915.	0.8	40
82	A two-dimensional model of low-Reynolds number swimming beneath a free surface. <i>Journal of Fluid Mechanics</i> , 2011, 681, 24-47.	1.4	40
83	Slender-ribbon theory. <i>Physics of Fluids</i> , 2016, 28, .	1.6	40
84	Performance of a linear robust control strategy on a nonlinear model of spatially developing flows. <i>Journal of Fluid Mechanics</i> , 2004, 512, .	1.4	38
85	The transient swimming of a waving sheet. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010, 466, 107-126.	1.0	38
86	Energetics of synchronized states in three-dimensional beating flagella. <i>Physical Review E</i> , 2011, 84, 061905.	0.8	38
87	Optimal swimming of a sheet. <i>Physical Review E</i> , 2014, 89, 060701.	0.8	38
88	Complex fluids affect low-Reynolds number locomotion in a kinematic-dependent manner. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	38
89	Tuning gastropod locomotion: Modeling the influence of mucus rheology on the cost of crawling. <i>Physics of Fluids</i> , 2006, 18, 113102.	1.6	37
90	The Long-Time Dynamics of Two Hydrodynamically-Coupled Swimming Cells. <i>Bulletin of Mathematical Biology</i> , 2010, 72, 973-1005.	0.9	37

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91	Crawling scallop: Friction-based locomotion with one degree of freedom. <i>Journal of Theoretical Biology</i> , 2013, 324, 42-51.	0.8	37
92	The passive diffusion of <i>Leptospira interrogans</i> . <i>Physical Biology</i> , 2014, 11, 066008.	0.8	37
93	Bundling of elastic filaments induced by hydrodynamic interactions. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	37
94	Elastohydrodynamic synchronization of adjacent beating flagella. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	36
95	Crawling beneath the free surface: Water snail locomotion. <i>Physics of Fluids</i> , 2008, 20, .	1.6	35
96	Unsteady feeding and optimal strokes of model ciliates. <i>Journal of Fluid Mechanics</i> , 2013, 715, 1-31.	1.4	34
97	The decay of stabilizability with Reynolds number in a linear model of spatially developing flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 2077-2095.	1.0	33
98	Stresslets Induced by Active Swimmers. <i>Physical Review Letters</i> , 2016, 117, 148001.	2.9	33
99	A Light-Driven Microgel Rotor. <i>Small</i> , 2019, 15, e1903379.	5.2	32
100	Bubble-based acoustic micropropulsors: active surfaces and mixers. <i>Lab on A Chip</i> , 2017, 17, 1515-1528.	3.1	31
101	Flagellar flows around bacterial swarms. <i>Physical Review Fluids</i> , 2016, 1, .	1.0	31
102	Collective dissolution of microbubbles. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	31
103	Self-Assembly of Spherical Particles on an Evaporating Sessile Droplet. <i>Langmuir</i> , 2006, 22, 4547-4551.	1.6	30
104	Arbitrary axisymmetric steady streaming: flow, force and propulsion. <i>Journal of Engineering Mathematics</i> , 2017, 105, 31-65.	0.6	30
105	Self-organization of swimmers drives long-range fluid transport in bacterial colonies. <i>Nature Communications</i> , 2019, 10, 1792.	5.8	29
106	Jet propulsion without inertia. <i>Physics of Fluids</i> , 2010, 22, .	1.6	28
107	Physics of Bubble-Propelled Microrockets. <i>Advanced Functional Materials</i> , 2018, 28, 1800686.	7.8	28
108	Theory of Locomotion Through Complex Fluids. <i>Biological and Medical Physics Series</i> , 2015, , 283-317.	0.3	28

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109	Analytical solutions to slender-ribbon theory. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	28
110	Swimming eukaryotic microorganisms exhibit a universal speed distribution. <i>ELife</i> , 2019, 8, .	2.8	28
111	Optimal propulsive flapping in Stokes flows. <i>Bioinspiration and Biomimetics</i> , 2014, 9, 016001.	1.5	27
112	Sensing in the Mouth: A Model for Filiform Papillae as Strain Amplifiers. <i>Frontiers in Physics</i> , 2016, 4, .	1.0	27
113	Swimming with a cage: low-Reynolds-number locomotion inside a droplet. <i>Soft Matter</i> , 2017, 13, 3161-3173.	1.2	27
114	Geometric pumping in autophoretic channels. <i>Soft Matter</i> , 2015, 11, 5804-5811.	1.2	26
115	Selectively controlled magnetic microrobots with opposing helices. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	26
116	Apparent Slip Due to the Motion of Suspended Particles in Flows of Electrolyte Solutions. <i>Langmuir</i> , 2004, 20, 8924-8930.	1.6	25
117	Elastocapillary self-folding: buckling, wrinkling, and collapse of floating filaments. <i>Soft Matter</i> , 2013, 9, 1711-1720.	1.2	24
118	A regularised singularity approach to phoretic problems. <i>European Physical Journal E</i> , 2015, 38, 139.	0.7	24
119	Empirical resistive-force theory for slender biological filaments in shear-thinning fluids. <i>Physical Review E</i> , 2017, 95, 062416.	0.8	24
120	Swirling Instability of the Microtubule Cytoskeleton. <i>Physical Review Letters</i> , 2021, 126, 028103.	2.9	24
121	Hydrodynamic interactions between nearby slender filaments. <i>Europhysics Letters</i> , 2016, 116, 24002.	0.7	23
122	Rechargeable self-assembled droplet microswimmers driven by surface phase transitions. <i>Nature Physics</i> , 2021, 17, 1050-1055.	6.5	23
123	The bank of swimming organisms at the micron scale (BOSO-Micro). <i>PLoS ONE</i> , 2021, 16, e0252291.	1.1	22
124	Capillary instability on a hydrophilic stripe. <i>New Journal of Physics</i> , 2009, 11, 075024.	1.2	21
125	Active and driven hydrodynamic crystals. <i>European Physical Journal E</i> , 2012, 35, 68.	0.7	20
126	Hydrodynamic Fluctuations in Confined Particle-Laden Fluids. <i>Physical Review Letters</i> , 2013, 111, 118301.	2.9	20

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127	Mixing by microorganisms in stratified fluids. <i>Journal of Marine Research</i> , 2014, 72, 47-72.	0.3	20
128	Active Particles Powered by Quincke Rotation in a Bulk Fluid. <i>Physical Review Letters</i> , 2019, 122, 194503.	2.9	20
129	Order and information in the patterns of spinning magnetic micro-disks at the air-water interface. <i>Science Advances</i> , 2022, 8, eabk0685.	4.7	20
130	Geometry and wetting of capillary folding. <i>Physical Review E</i> , 2014, 89, 043011.	0.8	19
131	Artificial chemotaxis of phoretic swimmers: instantaneous and long-time behaviour. <i>Journal of Fluid Mechanics</i> , 2018, 856, 921-957.	1.4	19
132	Computing the motor torque of <i>Escherichia coli</i> . <i>Soft Matter</i> , 2018, 14, 5955-5967.	1.2	18
133	Viscoelastic propulsion of a rotating dumbbell. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	18
134	Flow analysis of the low Reynolds number swimmer <i>C. elegans</i> . <i>Physical Review Fluids</i> , 2016, 1, .	1.0	18
135	The bearable gooeyness of swimming. <i>Journal of Fluid Mechanics</i> , 2015, 762, 1-4.	1.4	17
136	Reciprocal locomotion of dense swimmers in Stokes flow. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 204103.	0.7	16
137	Can phoretic particles swim in two dimensions?. <i>Physical Review E</i> , 2016, 94, 062606.	0.8	15
138	The N-flagella problem: elasto-hydrodynamic motility transition of multi-flagellated bacteria. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180690.	1.0	15
139	Stokesian jellyfish: viscous locomotion of bilayer vesicles. <i>Soft Matter</i> , 2010, 6, 1737.	1.2	13
140	Stability and non-linear response of 1D microfluidic-particle streams. <i>Soft Matter</i> , 2011, 7, 11082.	1.2	13
141	A reciprocal theorem for boundary-driven channel flows. <i>Physics of Fluids</i> , 2015, 27, 111701.	1.6	13
142	Transition to bound states for bacteria swimming near surfaces. <i>Physical Review E</i> , 2019, 100, 043117.	0.8	13
143	Theoretical Models of Low-Reynolds-Number Locomotion. <i>RSC Soft Matter</i> , 2015, , 100-167.	0.2	13
144	Autophoretic flow on a torus. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13

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145	Two-fluid model for locomotion under self-confinement. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	13
146	Hydrodynamics of the double-wave structure of insect spermatozoa flagella. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1908-1924.	1.5	12
147	Micro-Tug-of-War: A Selective Control Mechanism for Magnetic Swimmers. <i>Physical Review Applied</i> , 2016, 5, .	1.5	12
148	The swimming of a deforming helix. <i>European Physical Journal E</i> , 2018, 41, 119.	0.7	11
149	Method of regularized stokeslets: Flow analysis and improvement of convergence. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	11
150	Adhesion transition of flexible sheets. <i>Physical Review E</i> , 2009, 79, 066116.	0.8	10
151	Microscale flow dynamics of ribbons and sheets. <i>Soft Matter</i> , 2017, 13, 546-553.	1.2	10
152	Helical micropumps near surfaces. <i>Biomicrofluidics</i> , 2018, 12, 014108.	1.2	10
153	Irreversible hydrodynamic trapping by surface rollers. <i>Soft Matter</i> , 2020, 16, 2611-2620.	1.2	10
154	Rebound and scattering of motile <i>Chlamydomonas</i> algae in confined chambers. <i>Soft Matter</i> , 2021, 17, 4857-4873.	1.2	10
155	Front-back asymmetry controls the impact of viscoelasticity on helical swimming. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	10
156	Dynamics of a helical swimmer crossing viscosity gradients. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	10
157	Purely viscous acoustic propulsion of bimetallic rods. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	10
158	Cilia density and flow velocity affect alignment of motile cilia from brain cells. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	10
159	Stochastic dynamics of dissolving active particles. <i>European Physical Journal E</i> , 2019, 42, 88.	0.7	9
160	Universal optimal geometry of minimal phoretic pumps. <i>Scientific Reports</i> , 2019, 9, 10788.	1.6	9
161	Active rotational dynamics of a self-diffusiophoretic colloidal motor. <i>Soft Matter</i> , 2020, 16, 1236-1245.	1.2	9
162	Self-organisation and convection of confined magnetotactic bacteria. <i>Scientific Reports</i> , 2020, 10, 13578.	1.6	9

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163	Viscous pumping inspired by flexible propulsion. <i>Bioinspiration and Biomimetics</i> , 2014, 9, 036007.	1.5	8
164	Collectives of Spinning Mobile Microrobots for Navigation and Object Manipulation at the Air-Water Interface. , 2018, , .		8
165	The near and far of a pair of magnetic capillary disks. <i>Soft Matter</i> , 2019, 15, 1497-1507.	1.2	8
166	Spontaneous onset of convection in a uniform phoretic channel. <i>Soft Matter</i> , 2020, 16, 1259-1269.	1.2	8
167	Modern control of linear global instability in a cylinder wake model. <i>International Journal of Heat and Fluid Flow</i> , 2002, 23, 671-677.	1.1	7
168	The other optimal Stokes drag profile. <i>Journal of Fluid Mechanics</i> , 2015, 762, .	1.4	7
169	Clustering instability of focused swimmers. <i>Europhysics Letters</i> , 2016, 116, 64004.	0.7	7
170	The non-Gaussian tops and tails of diffusing boomerangs. <i>Soft Matter</i> , 2017, 13, 2977-2982.	1.2	7
171	Leading-order Stokes flows near a corner. <i>IMA Journal of Applied Mathematics</i> , 2018, 83, 590-633.	0.8	7
172	Direct measurement of unsteady microscale Stokes flow using optically driven microspheres. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	7
173	Shaking-induced motility in suspensions of soft active particles. <i>Physical Review E</i> , 2010, 81, 026312.	0.8	6
174	Small acoustically forced symmetric bodies in viscous fluids. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 1081-1092.	0.5	6
175	A stochastic model for bacteria-driven micro-swimmers. <i>Soft Matter</i> , 2019, 15, 2605-2616.	1.2	6
176	Viscous growth and rebound of a bubble near a rigid surface. <i>Journal of Fluid Mechanics</i> , 2019, 860, 172-199.	1.4	6
177	The fluid dynamics of collective vortex structures of plant-animal worms. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	1.4	6
178	Energetics of synchronization for model flagella and cilia. <i>Physical Review E</i> , 2021, 103, 042419.	0.8	6
179	Asymptotic theory of hydrodynamic interactions between slender filaments. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	6
180	Fluid flow in the sarcomere. <i>Archives of Biochemistry and Biophysics</i> , 2021, 706, 108923.	1.4	6

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181	Hydrodynamics of bacteriophage migration along bacterial flagella. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	6
182	Stokes flow due to point torques and sources in a spherical geometry. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	6
183	Direct versus indirect hydrodynamic interactions during bundle formation of bacterial flagella. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	6
184	Fluid Mechanics of Mosaic Ciliated Tissues. <i>Physical Review Letters</i> , 2021, 127, 198102.	2.9	6
185	Extensibility enables locomotion under isotropic drag. <i>Physics of Fluids</i> , 2011, 23, 081702.	1.6	5
186	Emergency cell swimming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7655-7656.	3.3	5
187	Buckling instability of squeezed droplets. <i>Physics of Fluids</i> , 2012, 24, 072102.	1.6	5
188	Sedimentation of a rotating sphere in a power-law fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014, 213, 27-30.	1.0	5
189	Phoretic flow induced by asymmetric confinement. <i>Journal of Fluid Mechanics</i> , 2016, 799, .	1.4	5
190	Rotation of slender swimmers in isotropic-drag media. <i>Physical Review E</i> , 2016, 93, 043125.	0.8	5
191	Collective stiffening of soft hair assemblies. <i>Physical Review E</i> , 2020, 102, 010602.	0.8	5
192	A mechanism for sarcomere breathing: volume change and advective flow within the myofilament lattice. <i>Biophysical Journal</i> , 2021, 120, 4079-4090.	0.2	5
193	Elastohydrodynamic Synchronization of Rotating Bacterial Flagella. <i>Physical Review Letters</i> , 2022, 128, .	2.9	5
194	Mechanical Aspects of Biological Locomotion. <i>Experimental Mechanics</i> , 2010, 50, 1259-1261.	1.1	4
195	Rotational propulsion enabled by inertia. <i>European Physical Journal E</i> , 2014, 37, 16.	0.7	4
196	Geometrical Constraints on the Tangling of Bacterial Flagellar Filaments. <i>Scientific Reports</i> , 2020, 10, 8406.	1.6	4
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