

Eric Lauga

List of Publications by Citations

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222
papers

11,296
citations

49
h-index

102
g-index

239
ext. papers

13,289
ext. citations

4.6
avg. IF

7.18
L-index

#	Paper	IF	Citations
222	The hydrodynamics of swimming microorganisms. <i>Reports on Progress in Physics</i> , 2009 , 72, 096601	14.4	1522
221	Swimming in circles: motion of bacteria near solid boundaries. <i>Biophysical Journal</i> , 2006 , 90, 400-12	2.9	638
220	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft microrobots. <i>Nature Materials</i> , 2016 , 15, 647-53	27	558
219	Effective slip in pressure-driven Stokes flow. <i>Journal of Fluid Mechanics</i> , 2003 , 489, 55-77	3.7	551
218	Hydrodynamic attraction of swimming microorganisms by surfaces. <i>Physical Review Letters</i> , 2008 , 101, 038102	7.4	527
217	Cargo-towing fuel-free magnetic nanoswimmers for targeted drug delivery. <i>Small</i> , 2012 , 8, 460-7	11	326
216	Hydrodynamics of self-propulsion near a boundary: predictions and accuracy of far-field approximations. <i>Journal of Fluid Mechanics</i> , 2012 , 700, 105-147	3.7	306
215	Bacterial Hydrodynamics. <i>Annual Review of Fluid Mechanics</i> , 2016 , 48, 105-130	22	231
214	Propulsion in a viscoelastic fluid. <i>Physics of Fluids</i> , 2007 , 19, 083104	4.4	224
213	A smooth future?. <i>Nature Materials</i> , 2011 , 10, 334-7	27	212
212	Microfluidics: The No-Slip Boundary Condition 2007 , 1219-1240		200
211	High-speed propulsion of flexible nanowire motors: Theory and experiments. <i>Soft Matter</i> , 2011 , 7, 8169	3.6	164
210	Life around the scallop theorem. <i>Soft Matter</i> , 2011 , 7, 3060-3065	3.6	139
209	Adaptive locomotion of artificial microswimmers. <i>Science Advances</i> , 2019 , 5, eaau1532	14.3	127
208	Geometric transition in friction for flow over a bubble mattress. <i>Physics of Fluids</i> , 2009 , 21, 011701	4.4	126
207	Experimental investigations of elastic tail propulsion at low Reynolds number. <i>Physics of Fluids</i> , 2006 , 18, 091701	4.4	124
206	Self-propulsion in viscoelastic fluids: Pushers vs. pullers. <i>Physics of Fluids</i> , 2012 , 24, 051902	4.4	123

205	Spontaneous autophoretic motion of isotropic particles. <i>Physics of Fluids</i> , 2013 , 25, 061701	4.4	120
204	Phoretic self-propulsion at finite Péclet numbers. <i>Journal of Fluid Mechanics</i> , 2014 , 747, 572-604	3.7	119
203	The 2020 motile active matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 193001	1.8	115
202	Geometric capture and escape of a microswimmer colliding with an obstacle. <i>Soft Matter</i> , 2015 , 11, 3396-411	3.6	111
201	Dynamic mechanisms for apparent slip on hydrophobic surfaces. <i>Physical Review E</i> , 2004 , 70, 026311	2.4	102
200	Dynamics of swimming bacteria at complex interfaces. <i>Physics of Fluids</i> , 2014 , 26, 071902	4.4	100
199	Hydrodynamic phase locking of swimming microorganisms. <i>Physical Review Letters</i> , 2009 , 103, 088101	7.4	95
198	Hydrodynamics of confined active fluids. <i>Physical Review Letters</i> , 2013 , 110, 038101	7.4	93
197	Generalized squirming motion of a sphere. <i>Journal of Engineering Mathematics</i> , 2014 , 88, 1-28	1.2	92
196	Efficiency optimization and symmetry-breaking in a model of ciliary locomotion. <i>Physics of Fluids</i> , 2010 , 22, 111901	4.4	92
195	Hydrodynamic friction of fakir-like superhydrophobic surfaces. <i>Journal of Fluid Mechanics</i> , 2010 , 661, 402-411	3.7	92
194	Orientalional order in concentrated suspensions of spherical microswimmers. <i>Physics of Fluids</i> , 2011 , 23, 111702	4.4	92
193	Waving transport and propulsion in a generalized Newtonian fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013 , 199, 37-50	2.7	91
192	Evaporation-driven assembly of colloidal particles. <i>Physical Review Letters</i> , 2004 , 93, 238301	7.4	88
191	Asymmetric steady streaming as a mechanism for acoustic propulsion of rigid bodies. <i>Physics of Fluids</i> , 2014 , 26, 082001	4.4	83
190	Floppy swimming: viscous locomotion of actuated elastica. <i>Physical Review E</i> , 2007 , 75, 041916	2.4	83
189	Viscous Marangoni propulsion. <i>Journal of Fluid Mechanics</i> , 2012 , 705, 120-133	3.7	78
188	Soft swimming: exploiting deformable interfaces for low reynolds number locomotion. <i>Physical Review Letters</i> , 2008 , 101, 048102	7.4	73

187	Brownian motion near a partial-slip boundary: A local probe of the no-slip condition. <i>Physics of Fluids</i> , 2005 , 17, 103102	4.4	73
186	The optimal elastic flagellum. <i>Physics of Fluids</i> , 2010 , 22, 031901	4.4	70
185	No many-scallop theorem: collective locomotion of reciprocal swimmers. <i>Physical Review E</i> , 2008 , 78, 030901	2.4	70
184	Comparative hydrodynamics of bacterial polymorphism. <i>Physical Review Letters</i> , 2011 , 106, 058103	7.4	66
183	Enhanced active swimming in viscoelastic fluids. <i>Europhysics Letters</i> , 2014 , 108, 34003	1.6	65
182	Kinematics of the most efficient cilium. <i>Physical Review Letters</i> , 2012 , 109, 038101	7.4	65
181	Fluid elasticity increases the locomotion of flexible swimmers. <i>Physics of Fluids</i> , 2013 , 25, 031701	4.4	64
180	Locomotion by tangential deformation in a polymeric fluid. <i>Physical Review E</i> , 2011 , 83, 011901	2.4	60
179	Optimal feeding is optimal swimming for all Péclet numbers. <i>Physics of Fluids</i> , 2011 , 23, 101901	4.4	59
178	Flapping motion and force generation in a viscoelastic fluid. <i>Physical Review E</i> , 2008 , 78, 061907	2.4	58
177	Micropropulsion and microrheology in complex fluids via symmetry breaking. <i>Physics of Fluids</i> , 2012 , 24, 103102	4.4	57
176	A note on the stability of slip channel flows. <i>Physics of Fluids</i> , 2005 , 17, 088106	4.4	57
175	Locomotion in complex fluids: Integral theorems. <i>Physics of Fluids</i> , 2014 , 26, 081902	4.4	56
174	Influence of slip on the dynamics of two-dimensional wakes. <i>Journal of Fluid Mechanics</i> , 2009 , 633, 437-447	4.7	54
173	Propulsion of Bubble-Based Acoustic Microswimmers. <i>Physical Review Applied</i> , 2015 , 4,	4.3	49
172	Dance of the microswimmers. <i>Physics Today</i> , 2012 , 65, 30-35	0.9	49
171	Synchronization of flexible sheets. <i>Journal of Fluid Mechanics</i> , 2011 , 674, 163-173	3.7	47
170	Autophoretic locomotion from geometric asymmetry. <i>European Physical Journal E</i> , 2015 , 38, 91	1.5	46

169	Three-dimensional flows in slowly varying planar geometries. <i>Physics of Fluids</i> , 2004 , 16, 3051-3062	4.4	46
168	A squirmer across Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2016 , 796, 233-256	3.7	45
167	Vortices in rotating systems: Centrifugal, elliptic and hyperbolic type instabilities. <i>Physics of Fluids</i> , 1999 , 11, 3716-3728	4.4	43
166	Taylor's swimming sheet: Analysis and improvement of the perturbation series. <i>Physica D: Nonlinear Phenomena</i> , 2011 , 240, 1567-1573	3.3	42
165	Geometric tuning of self-propulsion for Janus catalytic particles. <i>Scientific Reports</i> , 2017 , 7, 42264	4.9	41
164	Small-amplitude swimmers can self-propel faster in viscoelastic fluids. <i>Journal of Theoretical Biology</i> , 2015 , 382, 345-55	2.3	41
163	Phase-separation models for swimming enhancement in complex fluids. <i>Physical Review E</i> , 2015 , 92, 023004	4.4	41
162	Enhanced diffusion by reciprocal swimming. <i>Physical Review Letters</i> , 2011 , 106, 178101	7.4	41
161	Stochastic dynamics of active swimmers in linear flows. <i>Journal of Fluid Mechanics</i> , 2014 , 742, 50-70	3.7	40
160	Passive hydrodynamic synchronization of two-dimensional swimming cells. <i>Physics of Fluids</i> , 2011 , 23, 011902	4.4	40
159	Spontaneous oscillations of elastic filaments induced by molecular motors. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	39
158	Two-dimensional flagellar synchronization in viscoelastic fluids. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 505-515	3.7	39
157	Pumping by flapping in a viscoelastic fluid. <i>Physical Review E</i> , 2010 , 81, 036312	2.4	36
156	Continuous breakdown of Purcell's scallop theorem with inertia. <i>Physics of Fluids</i> , 2007 , 19, 061703	4.4	36
155	Swimming of peritrichous bacteria is enabled by an elastohydrodynamic instability. <i>Scientific Reports</i> , 2018 , 8, 10728	4.9	35
154	The friction of a mesh-like super-hydrophobic surface. <i>Physics of Fluids</i> , 2009 , 21, 113101	4.4	35
153	A two-dimensional model of low-Reynolds number swimming beneath a free surface. <i>Journal of Fluid Mechanics</i> , 2011 , 681, 24-47	3.7	34
152	Propulsion by passive filaments and active flagella near boundaries. <i>Physical Review E</i> , 2010 , 82, 041915	2.4	34

151	Active particles in periodic lattices. <i>New Journal of Physics</i> , 2017 , 19, 115001	2.9	33
150	Energetics of synchronized states in three-dimensional beating flagella. <i>Physical Review E</i> , 2011 , 84, 061905	2.5	33
149	Performance of a linear robust control strategy on a nonlinear model of spatially developing flows. <i>Journal of Fluid Mechanics</i> , 2004 , 512,	3.7	33
148	Slender-ribbon theory. <i>Physics of Fluids</i> , 2016 , 28, 013101	4.4	33
147	The wobbling-to-swimming transition of rotated helices. <i>Physics of Fluids</i> , 2013 , 25, 071904	4.4	32
146	Elastohydrodynamic Synchronization of Adjacent Beating Flagella. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	32
145	The boundary integral formulation of Stokes flows includes slender-body theory. <i>Journal of Fluid Mechanics</i> , 2018 , 850,	3.7	32
144	Shape of optimal active flagella. <i>Journal of Fluid Mechanics</i> , 2013 , 730,	3.7	31
143	The transient swimming of a waving sheet. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 107-126	2.4	31
142	Helical propulsion in shear-thinning fluids. <i>Journal of Fluid Mechanics</i> , 2017 , 812,	3.7	30
141	Optimal swimming of a sheet. <i>Physical Review E</i> , 2014 , 89, 060701	2.4	30
140	Nondecaying Hydrodynamic Interactions along Narrow Channels. <i>Physical Review Letters</i> , 2015 , 115, 038301	7.4	30
139	The passive diffusion of <i>Leptospira interrogans</i> . <i>Physical Biology</i> , 2014 , 11, 066008	3	30
138	Bundling of elastic filaments induced by hydrodynamic interactions. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	30
137	Complex fluids affect low-Reynolds number locomotion in a kinematic-dependent manner. <i>Experiments in Fluids</i> , 2015 , 56, 1	2.5	29
136	The long-time dynamics of two hydrodynamically-coupled swimming cells. <i>Bulletin of Mathematical Biology</i> , 2010 , 72, 973-1005	2.1	29
135	Tuning gastropod locomotion: Modeling the influence of mucus rheology on the cost of crawling. <i>Physics of Fluids</i> , 2006 , 18, 113102	4.4	28
134	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	2.4	28

133	Autophoretic motion in three dimensions. <i>Soft Matter</i> , 2018 , 14, 3304-3314	3.6	27
132	Crawling scallop: friction-based locomotion with one degree of freedom. <i>Journal of Theoretical Biology</i> , 2013 , 324, 42-51	2.3	27
131	Self-assembly of spherical particles on an evaporating sessile droplet. <i>Langmuir</i> , 2006 , 22, 4547-51	4	27
130	The Fluid Dynamics of Cell Motility 2020 ,		26
129	Light-switchable propulsion of active particles with reversible interactions. <i>Nature Communications</i> , 2020 , 11, 2628	17.4	25
128	Physics of Bubble-Propelled Microrockets. <i>Advanced Functional Materials</i> , 2018 , 28, 1800686	15.6	25
127	Collective dissolution of microbubbles. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	25
126	Unsteady feeding and optimal strokes of model ciliates. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 1-31	3.7	24
125	Bubble-based acoustic micropropulsors: active surfaces and mixers. <i>Lab on A Chip</i> , 2017 , 17, 1515-1528	7.2	23
124	Jet propulsion without inertia. <i>Physics of Fluids</i> , 2010 , 22, 081902	4.4	23
123	Apparent slip due to the motion of suspended particles in flows of electrolyte solutions. <i>Langmuir</i> , 2004 , 20, 8924-30	4	23
122	Stresslets Induced by Active Swimmers. <i>Physical Review Letters</i> , 2016 , 117, 148001	7.4	22
121	Shape-programmed 3D printed swimming microtori for the transport of passive and active agents. <i>Nature Communications</i> , 2019 , 10, 4932	17.4	21
120	Elastocapillary self-folding: buckling, wrinkling, and collapse of floating filaments. <i>Soft Matter</i> , 2013 , 9, 1711-1720	3.6	21
119	Crawling beneath the free surface: Water snail locomotion. <i>Physics of Fluids</i> , 2008 , 20, 082106	4.4	21
118	Arbitrary axisymmetric steady streaming: flow, force and propulsion. <i>Journal of Engineering Mathematics</i> , 2017 , 105, 31-65	1.2	20
117	Flagellar flows around bacterial swarms. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	20
116	Geometric pumping in autophoretic channels. <i>Soft Matter</i> , 2015 , 11, 5804-11	3.6	19

115	Hydrodynamic fluctuations in confined particle-laden fluids. <i>Physical Review Letters</i> , 2013 , 111, 118301	7.4	19
114	A regularised singularity approach to phoretic problems. <i>European Physical Journal E</i> , 2015 , 38, 139	1.5	19
113	Optimal propulsive flapping in Stokes flows. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 016001	2.6	19
112	Active and driven hydrodynamic crystals. <i>European Physical Journal E</i> , 2012 , 35, 68	1.5	19
111	Capillary instability on a hydrophilic stripe. <i>New Journal of Physics</i> , 2009 , 11, 075024	2.9	19
110	Analytical solutions to slender-ribbon theory. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	19
109	Theory of Locomotion Through Complex Fluids 2015 , 283-317		19
108	Swimming with a cage: low-Reynolds-number locomotion inside a droplet. <i>Soft Matter</i> , 2017 , 13, 3161-3173	3.7	18
107	A Light-Driven Microgel Rotor. <i>Small</i> , 2019 , 15, e1903379	11	18
106	Mixing by microorganisms in stratified fluids. <i>Journal of Marine Research</i> , 2014 , 72, 47-72	1.5	18
105	Self-organization of swimmers drives long-range fluid transport in bacterial colonies. <i>Nature Communications</i> , 2019 , 10, 1792	17.4	17
104	Active Particles Powered by Quincke Rotation in a Bulk Fluid. <i>Physical Review Letters</i> , 2019 , 122, 194503	7.4	16
103	The bearable goeyness of swimming. <i>Journal of Fluid Mechanics</i> , 2015 , 762, 1-4	3.7	16
102	Empirical resistive-force theory for slender biological filaments in shear-thinning fluids. <i>Physical Review E</i> , 2017 , 95, 062416	2.4	15
101	Geometry and wetting of capillary folding. <i>Physical Review E</i> , 2014 , 89, 043011	2.4	15
100	Swimming eukaryotic microorganisms exhibit a universal speed distribution. <i>ELife</i> , 2019 , 8,	8.9	15
99	Sensing in the Mouth: A Model for Filiform Papillae as Strain Amplifiers. <i>Frontiers in Physics</i> , 2016 , 4,	3.9	15
98	Hydrodynamic interactions between nearby slender filaments. <i>Europhysics Letters</i> , 2016 , 116, 24002	1.6	15

97	Flow analysis of the low Reynolds number swimmer <i>C. elegans</i> . <i>Physical Review Fluids</i> , 2016 , 1,	2.8	14
96	Artificial chemotaxis of phoretic swimmers: instantaneous and long-time behaviour. <i>Journal of Fluid Mechanics</i> , 2018 , 856, 921-957	3.7	14
95	Reciprocal locomotion of dense swimmers in Stokes flow. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 204103	1.8	13
94	Stokesian jellyfish: viscous locomotion of bilayer vesicles. <i>Soft Matter</i> , 2010 , 6, 1737	3.6	12
93	Selectively controlled magnetic microrobots with opposing helices. <i>Applied Physics Letters</i> , 2020 , 116, 134101	3.4	12
92	The swimming of a deforming helix. <i>European Physical Journal E</i> , 2018 , 41, 119	1.5	11
91	Swirling Instability of the Microtubule Cytoskeleton. <i>Physical Review Letters</i> , 2021 , 126, 028103	7.4	11
90	Computing the motor torque of <i>Escherichia coli</i> . <i>Soft Matter</i> , 2018 , 14, 5955-5967	3.6	10
89	A reciprocal theorem for boundary-driven channel flows. <i>Physics of Fluids</i> , 2015 , 27, 111701	4.4	10
88	Stability and non-linear response of 1D microfluidic-particle streams. <i>Soft Matter</i> , 2011 , 7, 11082	3.6	10
87	Adhesion transition of flexible sheets. <i>Physical Review E</i> , 2009 , 79, 066116	2.4	10
86	Hydrodynamics of the double-wave structure of insect spermatozoa flagella. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1908-24	4.1	10
85	Autophoretic flow on a torus. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	10
84	CHAPTER 4:Theoretical Models of Low-Reynolds-Number Locomotion. <i>RSC Soft Matter</i> , 2015 , 100-167	0.5	10
83	Cilia metasurfaces for electronically programmable microfluidic manipulation. <i>Nature</i> , 2022 , 605, 681-685	6.4	10
82	Microscale flow dynamics of ribbons and sheets. <i>Soft Matter</i> , 2017 , 13, 546-553	3.6	9
81	The -flagella problem: elastohydrodynamic motility transition of multi-flagellated bacteria. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180690	2.4	9
80	Micro-Tug-of-War: A Selective Control Mechanism for Magnetic Swimmers. <i>Physical Review Applied</i> , 2016 , 5,	4.3	9

79	Can phoretic particles swim in two dimensions?. <i>Physical Review E</i> , 2016 , 94, 062606	2.4	9
78	The bank of swimming organisms at the micron scale (BOSO-Micro). <i>PLoS ONE</i> , 2021 , 16, e0252291	3.7	8
77	Collectives of Spinning Mobile Microrobots for Navigation and Object Manipulation at the Air-Water Interface 2018 ,		8
76	Viscoelastic propulsion of a rotating dumbbell. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	7
75	Active rotational dynamics of a self-diffusiophoretic colloidal motor. <i>Soft Matter</i> , 2020 , 16, 1236-1245	3.6	7
74	Microswimming in viscoelastic fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021 , 297, 104655	2.7	7
73	The non-Gaussian tops and tails of diffusing boomerangs. <i>Soft Matter</i> , 2017 , 13, 2977-2982	3.6	6
72	The other optimal Stokes drag profile. <i>Journal of Fluid Mechanics</i> , 2015 , 762,	3.7	6
71	Shaking-induced motility in suspensions of soft active particles. <i>Physical Review E</i> , 2010 , 81, 026312	2.4	6
70	Two-fluid model for locomotion under self-confinement. <i>Physical Review Fluids</i> , 2017 , 2,	2.8	6
69	Method of regularized stokeslets: Flow analysis and improvement of convergence. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	6
68	Rechargeable self-assembled droplet microswimmers driven by surface phase transitions. <i>Nature Physics</i> , 2021 , 17, 1050-1055	16.2	6
67	Small acoustically forced symmetric bodies in viscous fluids. <i>Journal of the Acoustical Society of America</i> , 2016 , 139, 1081-92	2.2	6
66	Helical micropumps near surfaces. <i>Biomicrofluidics</i> , 2018 , 12, 014108	3.2	5
65	Stochastic dynamics of dissolving active particles. <i>European Physical Journal E</i> , 2019 , 42, 88	1.5	5
64	Viscous pumping inspired by flexible propulsion. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 036007	2.6	5
63	Sedimentation of a rotating sphere in a power-law fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2014 , 213, 27-30	2.7	5
62	Extensibility enables locomotion under isotropic drag. <i>Physics of Fluids</i> , 2011 , 23, 081702	4.4	5

61	Emergency cell swimming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 7655-6	11.5	5
60	Buckling instability of squeezed droplets. <i>Physics of Fluids</i> , 2012 , 24, 072102	4.4	5
59	Order and information in the patterns of spinning magnetic micro-disks at the air-water interface.. <i>Science Advances</i> , 2022 , 8, eabk0685	14.3	5
58	Viscous growth and rebound of a bubble near a rigid surface. <i>Journal of Fluid Mechanics</i> , 2019 , 860, 172-199	3.7	5
57	Geometrical Constraints on the Tangling of Bacterial Flagellar Filaments. <i>Scientific Reports</i> , 2020 , 10, 8406	4.9	4
56	Irreversible hydrodynamic trapping by surface rollers. <i>Soft Matter</i> , 2020 , 16, 2611-2620	3.6	4
55	Rotation of slender swimmers in isotropic-drag media. <i>Physical Review E</i> , 2016 , 93, 043125	2.4	4
54	Transition to bound states for bacteria swimming near surfaces. <i>Physical Review E</i> , 2019 , 100, 043117	2.4	4
53	Mechanical Aspects of Biological Locomotion. <i>Experimental Mechanics</i> , 2010 , 50, 1259-1261	2.6	4
52	Modern control of linear global instability in a cylinder wake model. <i>International Journal of Heat and Fluid Flow</i> , 2002 , 23, 671-677	2.4	4
51	Hydrodynamics of bacteriophage migration along bacterial flagella. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	4
50	Spontaneous onset of convection in a uniform phoretic channel. <i>Soft Matter</i> , 2020 , 16, 1259-1269	3.6	4
49	Clustering instability of focused swimmers. <i>Europhysics Letters</i> , 2016 , 116, 64004	1.6	4
48	The near and far of a pair of magnetic capillary disks. <i>Soft Matter</i> , 2019 , 15, 1497-1507	3.6	3
47	Leading-order Stokes flows near a corner. <i>IMA Journal of Applied Mathematics</i> , 2018 , 83, 590-633	1	3
46	Universal optimal geometry of minimal phoretic pumps. <i>Scientific Reports</i> , 2019 , 9, 10788	4.9	3
45	Publisher's Note: Enhanced Diffusion by Reciprocal Swimming [Phys. Rev. Lett. 106, 178101 (2011)]. <i>Physical Review Letters</i> , 2011 , 106,	7.4	3
44	Stokes flow due to point torques and sources in a spherical geometry. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	3

43	Direct versus indirect hydrodynamic interactions during bundle formation of bacterial flagella. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	3
42	Front-back asymmetry controls the impact of viscoelasticity on helical swimming. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	3
41	Phoretic flow induced by asymmetric confinement. <i>Journal of Fluid Mechanics</i> , 2016 , 799,	3.7	3
40	Purely viscous acoustic propulsion of bimetallic rods. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	3
39	A stochastic model for bacteria-driven micro-swimmers. <i>Soft Matter</i> , 2019 , 15, 2605-2616	3.6	2
38	Propulsion by stiff elastic filaments in viscous fluids. <i>Physical Review E</i> , 2019 , 99, 053107	2.4	2
37	Collective stiffening of soft hair assemblies. <i>Physical Review E</i> , 2020 , 102, 010602	2.4	2
36	Rotational propulsion enabled by inertia. <i>European Physical Journal E</i> , 2014 , 37, 16	1.5	2
35	Fluid transport by active elastic membranes. <i>Physical Review E</i> , 2011 , 84, 031924	2.4	2
34	Self-organisation and convection of confined magnetotactic bacteria. <i>Scientific Reports</i> , 2020 , 10, 13578	4.9	2
33	The fluid dynamics of collective vortex structures of plant-animal worms. <i>Journal of Fluid Mechanics</i> , 2021 , 914,	3.7	2
32	Hydrodynamic synchronization in strong confinement. <i>Physical Review E</i> , 2021 , 103, 022403	2.4	2
31	Fluid flow in the sarcomere. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 706, 108923	4.1	2
30	Hydrodynamic model for Spiroplasma motility. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	1
29	Traveling waves are hydrodynamically optimal for long-wavelength flagella. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	1
28	Cilia density and flow velocity affect alignment of motile cilia from brain cells. <i>Journal of Experimental Biology</i> , 2020 , 223,	3	1
27	Fluid Mechanics of Mosaic Ciliated Tissues. <i>Physical Review Letters</i> , 2021 , 127, 198102	7.4	1
26	Stabilizing viscous extensional flows using reinforcement learning.. <i>Physical Review E</i> , 2021 , 104, 055108	2.4	1

25	Geometric phase methods with Stokes theorem for a general viscous swimmer. <i>Journal of Fluid Mechanics</i> , 2021 , 916,	3.7	1
24	Direct measurement of unsteady microscale Stokes flow using optically driven microspheres. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	1
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