Eric Lauga

List of Publications by Year in Descending Order

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	Order and information in the patterns of spinning magnetic micro-disks at the air-water interface.. *Science Advances*, **2022**, 8, eabk0685	14.3	5
221	Jet-driven viscous locomotion of confined thermoresponsive microgels. *Applied Physics Letters*, **2022**, 120, 104101	3.4	0
220	Cilia metasurfaces for electronically programmable microfluidic manipulation. *Nature*, **2022**, 605, 681-686	50.4	10
219	Fluid Mechanics of Mosaic Ciliated Tissues. *Physical Review Letters*, **2021**, 127, 198102	7.4	1
218	Stabilizing viscous extensional flows using reinforcement learning.. *Physical Review E*, **2021**, 104, 055108	2.4	1
217	The fluid dynamics of collective vortex structures of plant-animal worms. *Journal of Fluid Mechanics* , **2021**, 914,	3.7	2
216	Energetics of synchronization for model flagella and cilia. *Physical Review E*, **2021**, 103, 042419	2.4	0
215	Geometric phase methods with Stokes theorem for a general viscous swimmer. *Journal of Fluid Mechanics*, **2021**, 916,	3.7	1
214	Front-back asymmetry controls the impact of viscoelasticity on helical swimming. *Physical Review Fluids*, **2021**, 6,	2.8	3
213	Direct measurement of unsteady microscale Stokes flow using optically driven microspheres. *Physical Review Fluids*, **2021**, 6,	2.8	1
212	The bank of swimming organisms at the micron scale (BOSO-Micro). *PLoS ONE*, **2021**, 16, e0252291	3.7	8
211	Rechargeable self-assembled droplet microswimmers driven by surface phase transitions. *Nature Physics*, **2021**, 17, 1050-1055	16.2	6
210	Rebound and scattering of motile algae in confined chambers. *Soft Matter*, **2021**, 17, 4857-4873	3.6	1
209	Hydrodynamic synchronization in strong confinement. *Physical Review E*, **2021**, 103, 022403	2.4	2
208	Zigzag instability of biased pusher swimmers. *Europhysics Letters*, **2021**, 133, 44002	1.6	1
207	Fluid flow in the sarcomere. *Archives of Biochemistry and Biophysics*, **2021**, 706, 108923	4.1	2
206	Hydrodynamics and direction change of tumbling bacteria. *PLoS ONE*, **2021**, 16, e0254551	3.7	

205	Purely viscous acoustic propulsion of bimetallic rods. *Physical Review Fluids*, **2021**, 6,	2.8	3
204	A mechanism for sarcomere breathing: volume change and advective flow within the myofilament lattice. *Biophysical Journal*, **2021**, 120, 4079-4090	2.9	0
203	Microswimming in viscoelastic fluids. *Journal of Non-Newtonian Fluid Mechanics*, **2021**, 297, 104655	2.7	7
202	Swirling Instability of the Microtubule Cytoskeleton. *Physical Review Letters*, **2021**, 126, 028103	7.4	11
201	Hydrodynamic interactions between a point force and a slender filament. *Physical Review Fluids*, **2021**, 6,	2.8	1
200	Light-switchable propulsion of active particles with reversible interactions. *Nature Communications*, **2020**, 11, 2628	17.4	25
199	Geometrical Constraints on the Tangling of Bacterial Flagellar Filaments. *Scientific Reports*, **2020**, 10, 8406	4.9	4
198	The 2020 motile active matter roadmap. *Journal of Physics Condensed Matter*, **2020**, 32, 193001	1.8	115
197	Collective stiffening of soft hair assemblies. *Physical Review E*, **2020**, 102, 010602	2.4	2
196	Irreversible hydrodynamic trapping by surface rollers. *Soft Matter*, **2020**, 16, 2611-2620	3.6	4
195	Stokes flow due to point torques and sources in a spherical geometry. *Physical Review Fluids*, **2020**, 5,	2.8	3
194	Hydrodynamic model for Spiroplasma motility. *Physical Review Fluids*, **2020**, 5,	2.8	1
193	Traveling waves are hydrodynamically optimal for long-wavelength flagella. *Physical Review Fluids*, **2020**, 5,	2.8	1
192	Direct versus indirect hydrodynamic interactions during bundle formation of bacterial flagella. *Physical Review Fluids*, **2020**, 5,	2.8	3
191	Cilia density and flow velocity affect alignment of motile cilia from brain cells. *Journal of Experimental Biology*, **2020**, 223,	3	1
190	The Fluid Dynamics of Cell Motility **2020**,		26
189	Active rotational dynamics of a self-diffusiophoretic colloidal motor. *Soft Matter*, **2020**, 16, 1236-1245	3.6	7
188	Spontaneous onset of convection in a uniform phoretic channel. *Soft Matter*, **2020**, 16, 1259-1269	3.6	4

187	Self-organisation and convection of confined magnetotactic bacteria. *Scientific Reports*, **2020**, 10, 13578	4.9	2
186	Biological Background **2020**, 3-11		
185	The Fluid Dynamics of Microscopic Locomotion **2020**, 12-28		
184	The Waving Sheet Model **2020**, 29-44		
183	The Squirmer Model **2020**, 45-62		
182	Cellular Locomotion **2020**, 63-64		
181	Flagella and the Physics of Viscous Propulsion **2020**, 65-76		
180	Hydrodynamics of Slender Filaments **2020**, 77-96		
179	Waving of Eukaryotic Flagella **2020**, 97-119		
178	Rotation of Bacterial Flagellar Filaments **2020**, 120-138		
177	Flows and Stresses Induced by Cells **2020**, 139-156		
176	Swimming Cells in Flows **2020**, 159-185		
175	Self-Propulsion and Surfaces **2020**, 186-225		
174	Hydrodynamic Synchronisation **2020**, 226-268		
173	Diffusion and Noisy Swimming **2020**, 269-290		
172	Hydrodynamics of Collective Locomotion **2020**, 291-314		
171	Locomotion and Transport in Complex Fluids **2020**, 315-352		
170	Selectively controlled magnetic microrobots with opposing helices. *Applied Physics Letters*, **2020**, 116, 134101	3.4	12

169	Viscoelastic propulsion of a rotating dumbbell. *Microfluidics and Nanofluidics*, **2019**, 23, 1	2.8	7
168	The near and far of a pair of magnetic capillary disks. *Soft Matter*, **2019**, 15, 1497-1507	3.6	3
167	A stochastic model for bacteria-driven micro-swimmers. *Soft Matter*, **2019**, 15, 2605-2616	3.6	2
166	Propulsion by stiff elastic filaments in viscous fluids. *Physical Review E*, **2019**, 99, 053107	2.4	2
165	The -flagella problem: elastohydrodynamic motility transition of multi-flagellated bacteria. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2019**, 475, 20180690	2.4	9
164	Active Particles Powered by Quincke Rotation in a Bulk Fluid. *Physical Review Letters*, **2019**, 122, 194503	7.4	16
163	Self-organization of swimmers drives long-range fluid transport in bacterial colonies. *Nature Communications*, **2019**, 10, 1792	17.4	17
162	Stochastic dynamics of dissolving active particles. *European Physical Journal E*, **2019**, 42, 88	1.5	5
161	Universal optimal geometry of minimal phoretic pumps. *Scientific Reports*, **2019**, 9, 10788	4.9	3
160	A Light-Driven Microgel Rotor. *Small*, **2019**, 15, e1903379	11	18
159	Shape-programmed 3D printed swimming microtori for the transport of passive and active agents. *Nature Communications*, **2019**, 10, 4932	17.4	21
158	Transition to bound states for bacteria swimming near surfaces. *Physical Review E*, **2019**, 100, 043117	2.4	4
157	Hydrodynamics of bacteriophage migration along bacterial flagella. *Physical Review Fluids*, **2019**, 4,	2.8	4
156	Method of regularized stokeslets: Flow analysis and improvement of convergence. *Physical Review Fluids*, **2019**, 4,	2.8	6
155	Swimming eukaryotic microorganisms exhibit a universal speed distribution. *ELife*, **2019**, 8,	8.9	15
154	Adaptive locomotion of artificial microswimmers. *Science Advances*, **2019**, 5, eaau1532	14.3	127
153	Viscous growth and rebound of a bubble near a rigid surface. *Journal of Fluid Mechanics*, **2019**, 860, 172-199	3.7	5
152	Helical micropumps near surfaces. *Biomicrofluidics*, **2018**, 12, 014108	3.2	5

151	Autophoretic motion in three dimensions. *Soft Matter*, **2018**, 14, 3304-3314	3.6	27
150	Leading-order Stokes flows near a corner. *IMA Journal of Applied Mathematics*, **2018**, 83, 590-633	1	3
149	Swimming of peritrichous bacteria is enabled by an elastohydrodynamic instability. *Scientific Reports*, **2018**, 8, 10728	4.9	35
148	Physics of Bubble-Propelled Microrockets. *Advanced Functional Materials*, **2018**, 28, 1800686	15.6	25
147	Computing the motor torque of Escherichia coli. *Soft Matter*, **2018**, 14, 5955-5967	3.6	10
146	Collective dissolution of microbubbles. *Physical Review Fluids*, **2018**, 3,	2.8	25
145	Collectives of Spinning Mobile Microrobots for Navigation and Object Manipulation at the Air-Water Interface **2018**,		8
144	Artificial chemotaxis of phoretic swimmers: instantaneous and long-time behaviour. *Journal of Fluid Mechanics*, **2018**, 856, 921-957	3.7	14
143	The swimming of a deforming helix. *European Physical Journal E*, **2018**, 41, 119	1.5	11
142	The boundary integral formulation of Stokes flows includes slender-body theory. *Journal of Fluid Mechanics*, **2018**, 850,	3.7	32
141	Geometric tuning of self-propulsion for Janus catalytic particles. *Scientific Reports*, **2017**, 7, 42264	4.9	41
140	Swimming with a cage: low-Reynolds-number locomotion inside a droplet. *Soft Matter*, **2017**, 13, 3161-3173	3.6	18
139	The non-Gaussian tops and tails of diffusing boomerangs. *Soft Matter*, **2017**, 13, 2977-2982	3.6	6
138	Arbitrary axisymmetric steady streaming: flow, force and propulsion. *Journal of Engineering Mathematics*, **2017**, 105, 31-65	1.2	20
137	Bubble-based acoustic micropropulsors: active surfaces and mixers. *Lab on A Chip*, **2017**, 17, 1515-1528	7.2	23
136	Helical propulsion in shear-thinning fluids. *Journal of Fluid Mechanics*, **2017**, 812,	3.7	30
135	Microscale flow dynamics of ribbons and sheets. *Soft Matter*, **2017**, 13, 546-553	3.6	9
134	Empirical resistive-force theory for slender biological filaments in shear-thinning fluids. *Physical Review E*, **2017**, 95, 062416	2.4	15

133	Spontaneous oscillations of elastic filaments induced by molecular motors. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	39
132	Active particles in periodic lattices. *New Journal of Physics*, **2017**, 19, 115001	2.9	33
131	Autophoretic flow on a torus. *Physical Review Fluids*, **2017**, 2,	2.8	10
130	Analytical solutions to slender-ribbon theory. *Physical Review Fluids*, **2017**, 2,	2.8	19
129	Two-fluid model for locomotion under self-confinement. *Physical Review Fluids*, **2017**, 2,	2.8	6
128	Bundling of elastic filaments induced by hydrodynamic interactions. *Physical Review Fluids*, **2017**, 2,	2.8	30
127	Micro-Tug-of-War: A Selective Control Mechanism for Magnetic Swimmers. *Physical Review Applied*, **2016**, 5,	4.3	9
126	Rotation of slender swimmers in isotropic-drag media. *Physical Review E*, **2016**, 93, 043125	2.4	4
125	Structured light enables biomimetic swimming and versatile locomotion of photoresponsive soft´microrobots. *Nature Materials*, **2016**, 15, 647-53	27	558
124	Bacterial Hydrodynamics. *Annual Review of Fluid Mechanics*, **2016**, 48, 105-130	22	231
123	Flagellar flows around bacterial swarms. *Physical Review Fluids*, **2016**, 1,	2.8	20
122	Flow analysis of the low Reynolds number swimmer C. elegans. *Physical Review Fluids*, **2016**, 1,	2.8	14
121	Elastohydrodynamic Synchronization of Adjacent Beating Flagella. *Physical Review Fluids*, **2016**, 1,	2.8	32
120	Sensing in the Mouth: A Model for Filiform Papillae as Strain Amplifiers. *Frontiers in Physics*, **2016**, 4,	3.9	15
119	Clustering instability of focused swimmers. *Europhysics Letters*, **2016**, 116, 64004	1.6	4
118	Phoretic flow induced by asymmetric confinement. *Journal of Fluid Mechanics*, **2016**, 799,	3.7	3
117	Can phoretic particles swim in two dimensions?. *Physical Review E*, **2016**, 94, 062606	2.4	9
116	Hydrodynamic interactions between nearby slender filaments. *Europhysics Letters*, **2016**, 116, 24002	1.6	15

115	Slender-ribbon theory. *Physics of Fluids*, **2016**, 28, 013101	4.4	33
114	Small acoustically forced symmetric bodies in viscous fluids. *Journal of the Acoustical Society of America*, **2016**, 139, 1081-92	2.2	6
113	A squirmer across Reynolds numbers. *Journal of Fluid Mechanics*, **2016**, 796, 233-256	3.7	45
112	Stresslets Induced by Active Swimmers. *Physical Review Letters*, **2016**, 117, 148001	7.4	22
111	The bearable gooeyness of swimming. *Journal of Fluid Mechanics*, **2015**, 762, 1-4	3.7	16
110	Complex fluids affect low-Reynolds number locomotion in a kinematic-dependent manner. *Experiments in Fluids*, **2015**, 56, 1	2.5	29
109	The other optimal Stokes drag profile. *Journal of Fluid Mechanics*, **2015**, 762,	3.7	6
108	Small-amplitude swimmers can self-propel faster in viscoelastic fluids. *Journal of Theoretical Biology*, **2015**, 382, 345-55	2.3	41
107	Geometric pumping in autophoretic channels. *Soft Matter*, **2015**, 11, 5804-11	3.6	19
106	Propulsion of Bubble-Based Acoustic Microswimmers. *Physical Review Applied*, **2015**, 4,	4.3	49
105	Phase-separation models for swimming enhancement in complex fluids. *Physical Review E*, **2015**, 92, 023004	2.4	41
104	Nondecaying Hydrodynamic Interactions along Narrow Channels. *Physical Review Letters*, **2015**, 115, 038301	7.4	30
103	A reciprocal theorem for boundary-driven channel flows. *Physics of Fluids*, **2015**, 27, 111701	4.4	10
102	Geometric capture and escape of a microswimmer colliding with an obstacle. *Soft Matter*, **2015**, 11, 3396-411	3.6	111
101	A regularised singularity approach to phoretic problems. *European Physical Journal E*, **2015**, 38, 139	1.5	19
100	Autophoretic locomotion from geometric asymmetry. *European Physical Journal E*, **2015**, 38, 91	1.5	46
99	Theory of Locomotion Through Complex Fluids **2015**, 283-317		19
98	CHAPTER 4:Theoretical Models of Low-Reynolds-Number Locomotion. *RSC Soft Matter*, **2015**, 100-167	0.5	10

97	Viscous pumping inspired by flexible propulsion. *Bioinspiration and Biomimetics*, **2014**, 9, 036007	2.6	5
96	Sedimentation of a rotating sphere in a power-law fluid. *Journal of Non-Newtonian Fluid Mechanics*, **2014**, 213, 27-30	2.7	5
95	Rotational propulsion enabled by inertia. *European Physical Journal E*, **2014**, 37, 16	1.5	2
94	Generalized squirming motion of a sphere. *Journal of Engineering Mathematics*, **2014**, 88, 1-28	1.2	92
93	Optimal swimming of a sheet. *Physical Review E*, **2014**, 89, 060701	2.4	30
92	Locomotion in complex fluids: Integral theorems. *Physics of Fluids*, **2014**, 26, 081902	4.4	56
91	Mixing by microorganisms in stratified fluids. *Journal of Marine Research*, **2014**, 72, 47-72	1.5	18
90	Phoretic self-propulsion at finite Péclet numbers. *Journal of Fluid Mechanics*, **2014**, 747, 572-604	3.7	119
89	Optimal propulsive flapping in Stokes flows. *Bioinspiration and Biomimetics*, **2014**, 9, 016001	2.6	19
88	Stochastic dynamics of active swimmers in linear flows. *Journal of Fluid Mechanics*, **2014**, 742, 50-70	3.7	40
87	Enhanced active swimming in viscoelastic fluids. *Europhysics Letters*, **2014**, 108, 34003	1.6	65
86	Dynamics of swimming bacteria at complex interfaces. *Physics of Fluids*, **2014**, 26, 071902	4.4	100
85	The passive diffusion of Leptospira interrogans. *Physical Biology*, **2014**, 11, 066008	3	30
84	Geometry and wetting of capillary folding. *Physical Review E*, **2014**, 89, 043011	2.4	15
83	Asymmetric steady streaming as a mechanism for acoustic propulsion of rigid bodies. *Physics of Fluids*, **2014**, 26, 082001	4.4	83
82	The wobbling-to-swimming transition of rotated helices. *Physics of Fluids*, **2013**, 25, 071904	4.4	32
81	Hydrodynamic fluctuations in confined particle-laden fluids. *Physical Review Letters*, **2013**, 111, 118301	7.4	19
80	Elastocapillary self-folding: buckling, wrinkling, and collapse of floating filaments. *Soft Matter*, **2013** , 9, 1711-1720	3.6	21

79	Shape of optimal active flagella. *Journal of Fluid Mechanics*, **2013**, 730,	3.7	31
78	Hydrodynamics of confined active fluids. *Physical Review Letters*, **2013**, 110, 038101	7.4	93
77	Waving transport and propulsion in a generalized Newtonian fluid. *Journal of Non-Newtonian Fluid Mechanics*, **2013**, 199, 37-50	2.7	91
76	Crawling scallop: friction-based locomotion with one degree of freedom. *Journal of Theoretical Biology*, **2013**, 324, 42-51	2.3	27
75	Spontaneous autophoretic motion of isotropic particles. *Physics of Fluids*, **2013**, 25, 061701	4.4	120
74	Fluid elasticity increases the locomotion of flexible swimmers. *Physics of Fluids*, **2013**, 25, 031701	4.4	64
73	Unsteady feeding and optimal strokes of model ciliates. *Journal of Fluid Mechanics*, **2013**, 715, 1-31	3.7	24
72	Hydrodynamics of self-propulsion near a boundary: predictions and accuracy of far-field approximations. *Journal of Fluid Mechanics*, **2012**, 700, 105-147	3.7	306
71	Dance of the microswimmers. *Physics Today*, **2012**, 65, 30-35	0.9	49
70	Active and driven hydrodynamic crystals. *European Physical Journal E*, **2012**, 35, 68	1.5	19
69	Cargo-towing fuel-free magnetic nanoswimmers for targeted drug delivery. *Small*, **2012**, 8, 460-7	11	326
68	Viscous Marangoni propulsion. *Journal of Fluid Mechanics*, **2012**, 705, 120-133	3.7	78
67	Hydrodynamics of the double-wave structure of insect spermatozoa flagella. *Journal of the Royal Society Interface*, **2012**, 9, 1908-24	4.1	10
66	Self-propulsion in viscoelastic fluids: Pushers vs. pullers. *Physics of Fluids*, **2012**, 24, 051902	4.4	123
65	Micropropulsion and microrheology in complex fluids via symmetry breaking. *Physics of Fluids*, **2012** , 24, 103102	4.4	57
64	Kinematics of the most efficient cilium. *Physical Review Letters*, **2012**, 109, 038101	7.4	65
63	Buckling instability of squeezed droplets. *Physics of Fluids*, **2012**, 24, 072102	4.4	5
62	High-speed propulsion of flexible nanowire motors: Theory and experiments. *Soft Matter*, **2011**, 7, 8169	3.6	164

61	Energetics of synchronized states in three-dimensional beating flagella. *Physical Review E*, **2011**, 84, 061905	2.4	33
60	A smooth future?. *Nature Materials*, **2011**, 10, 334-7	27	212
59	A two-dimensional model of low-Reynolds number swimming beneath a free surface. *Journal of Fluid Mechanics*, **2011**, 681, 24-47	3.7	34
58	Taylor's swimming sheet: Analysis and improvement of the perturbation series. *Physica D: Nonlinear Phenomena*, **2011**, 240, 1567-1573	3.3	42
57	Synchronization of flexible sheets. *Journal of Fluid Mechanics*, **2011**, 674, 163-173	3.7	47
56	Life around the scallop theorem. *Soft Matter*, **2011**, 7, 3060-3065	3.6	139
55	Stability and non-linear response of 1D microfluidic-particle streams. *Soft Matter*, **2011**, 7, 11082	3.6	10
54	Extensibility enables locomotion under isotropic drag. *Physics of Fluids*, **2011**, 23, 081702	4.4	5
53	Locomotion by tangential deformation in a polymeric fluid. *Physical Review E*, **2011**, 83, 011901	2.4	60
52	Fluid transport by active elastic membranes. *Physical Review E*, **2011**, 84, 031924	2.4	2
51	Enhanced diffusion by reciprocal swimming. *Physical Review Letters*, **2011**, 106, 178101	7.4	41
50	Comparative hydrodynamics of bacterial polymorphism. *Physical Review Letters*, **2011**, 106, 058103	7.4	66
49	Publisher's Note: Enhanced Diffusion by Reciprocal Swimming [Phys. Rev. Lett. 106, 178101 (2011)]. *Physical Review Letters*, **2011**, 106,	7.4	3
48	Emergency cell swimming. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 7655-6	11.5	5
47	Orientational order in concentrated suspensions of spherical microswimmers. *Physics of Fluids*, **2011**, 23, 111702	4.4	92
46	Optimal feeding is optimal swimming for all Péclet numbers. *Physics of Fluids*, **2011**, 23, 101901	4.4	59
45	Passive hydrodynamic synchronization of two-dimensional swimming cells. *Physics of Fluids*, **2011**, 23, 011902	4.4	40
44	The transient swimming of a waving sheet. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2010**, 466, 107-126	2.4	31

43	Pumping by flapping in a viscoelastic fluid. *Physical Review E*, **2010**, 81, 036312	2.4	36
42	Shaking-induced motility in suspensions of soft active particles. *Physical Review E*, **2010**, 81, 026312	2.4	6
41	Two-dimensional flagellar synchronization in viscoelastic fluids. *Journal of Fluid Mechanics*, **2010**, 646, 505-515	3.7	39
40	Efficiency optimization and symmetry-breaking in a model of ciliary locomotion. *Physics of Fluids*, **2010**, 22, 111901	4.4	92
39	Jet propulsion without inertia. *Physics of Fluids*, **2010**, 22, 081902	4.4	23
38	Propulsion by passive filaments and active flagella near boundaries. *Physical Review E*, **2010**, 82, 041915	2.4	34
37	The optimal elastic flagellum. *Physics of Fluids*, **2010**, 22, 031901	4.4	70
36	Stokesian jellyfish: viscous locomotion of bilayer vesicles. *Soft Matter*, **2010**, 6, 1737	3.6	12
35	Hydrodynamic friction of fakir-like superhydrophobic surfaces. *Journal of Fluid Mechanics*, **2010**, 661, 402-411	3.7	92
34	Mechanical Aspects of Biological Locomotion. *Experimental Mechanics*, **2010**, 50, 1259-1261	2.6	4
33	The long-time dynamics of two hydrodynamically-coupled swimming cells. *Bulletin of Mathematical Biology*, **2010**, 72, 973-1005	2.1	29
32	Hydrodynamic phase locking of swimming microorganisms. *Physical Review Letters*, **2009**, 103, 088101	7.4	95
31	Adhesion transition of flexible sheets. *Physical Review E*, **2009**, 79, 066116	2.4	10
30	Reciprocal locomotion of dense swimmers in Stokes flow. *Journal of Physics Condensed Matter*, **2009**, 21, 204103	1.8	13
29	Capillary instability on a hydrophilic stripe. *New Journal of Physics*, **2009**, 11, 075024	2.9	19
28	Geometric transition in friction for flow over a bubble mattress. *Physics of Fluids*, **2009**, 21, 011701	4.4	126
27	The friction of a mesh-like super-hydrophobic surface. *Physics of Fluids*, **2009**, 21, 113101	4.4	35
26	The hydrodynamics of swimming microorganisms. *Reports on Progress in Physics*, **2009**, 72, 096601	14.4	1522

25	Influence of slip on the dynamics of two-dimensional wakes. *Journal of Fluid Mechanics*, **2009**, 633, 437-447	3.7	54
24	Hydrodynamic attraction of swimming microorganisms by surfaces. *Physical Review Letters*, **2008**, 101, 038102	7.4	527
23	Crawling beneath the free surface: Water snail locomotion. *Physics of Fluids*, **2008**, 20, 082106	4.4	21
22	No many-scallop theorem: collective locomotion of reciprocal swimmers. *Physical Review E*, **2008**, 78, 030901	2.4	70
21	Flapping motion and force generation in a viscoelastic fluid. *Physical Review E*, **2008**, 78, 061907	2.4	58
20	Soft swimming: exploiting deformable interfaces for low reynolds number locomotion. *Physical Review Letters*, **2008**, 101, 048102	7.4	73
19	Propulsion in a viscoelastic fluid. *Physics of Fluids*, **2007**, 19, 083104	4.4	224
18	Continuous breakdown of Purcell's scallop theorem with inertia. *Physics of Fluids*, **2007**, 19, 061703	4.4	36
17	Floppy swimming: viscous locomotion of actuated elastica. *Physical Review E*, **2007**, 75, 041916	2.4	83
16	Microfluidics: The No-Slip Boundary Condition **2007**, 1219-1240		200
15	Experimental investigations of elastic tail propulsion at low Reynolds number. *Physics of Fluids*, **2006**, 18, 091701	4.4	124
14	Tuning gastropod locomotion: Modeling the influence of mucus rheology on the cost of crawling. *Physics of Fluids*, **2006**, 18, 113102	4.4	28
13	Swimming in circles: motion of bacteria near solid boundaries. *Biophysical Journal*, **2006**, 90, 400-12	2.9	638
12	Self-assembly of spherical particles on an evaporating sessile droplet. *Langmuir*, **2006**, 22, 4547-51	4	27
11	A note on the stability of slip channel flows. *Physics of Fluids*, **2005**, 17, 088106	4.4	57
10	Brownian motion near a partial-slip boundary: A local probe of the no-slip condition. *Physics of Fluids*, **2005**, 17, 103102	4.4	73
9	Evaporation-driven assembly of colloidal particles. *Physical Review Letters*, **2004**, 93, 238301	7.4	88
8	Dynamic mechanisms for apparent slip on hydrophobic surfaces. *Physical Review E*, **2004**, 70, 026311	2.4	102

7	Apparent slip due to the motion of suspended particles in flows of electrolyte solutions. *Langmuir*, **2004**, 20, 8924-30	4	23
6	Three-dimensional flows in slowly varying planar geometries. *Physics of Fluids*, **2004**, 16, 3051-3062	4.4	46
5	Performance of a linear robust control strategy on a nonlinear model of spatially developing flows. *Journal of Fluid Mechanics*, **2004**, 512,	3.7	33
4	The decay of stabilizability with Reynolds number in a linear model of spatially developing flows. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2003**, 459, 2077-2095	2.4	28
3	Effective slip in pressure-driven Stokes flow. *Journal of Fluid Mechanics*, **2003**, 489, 55-77	3.7	551
2	Modern control of linear global instability in a cylinder wake model. *International Journal of Heat and Fluid Flow*, **2002**, 23, 671-677	2.4	4
1	Vortices in rotating systems: Centrifugal, elliptic and hyperbolic type instabilities. *Physics of Fluids*, **1999**, 11, 3716-3728	4.4	43