

Howard A Stone

List of Publications by Year in descending order

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Version: 2024-02-01

582
papers

49,185
citations

1704

104
h-index

2280

200
g-index

605
all docs

605
docs citations

605
times ranked

33913
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-induced migration of confined flexible fibers. <i>Soft Matter</i> , 2022, 18, 514-525.	2.7	11
2	Colliding respiratory jets as a mechanism of air exchange and pathogen transport during conversations. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	3.4	9
3	The effect of rigid cells on blood viscosity: linking rheology and sickle cell anemia. <i>Soft Matter</i> , 2022, 18, 554-565.	2.7	3
4	The Influence of Boundaries on Gravity Currents and Thin Films: Drainage, Confinement, Convergence, and Deformation Effects. <i>Annual Review of Fluid Mechanics</i> , 2022, 54, 27-56.	25.0	17
5	Gravitational drainage on a vertical substrate of a narrow width. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	0
6	Pinch-off of liquid jets at the finite scale of an interface. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	5
7	Buckling of elastic fibers in a shear flow. <i>New Journal of Physics</i> , 2022, 24, 013013.	2.9	3
8	Inexpensive Multipatient Respiratory Monitoring System for Helmet Ventilation During COVID-19 Pandemic. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, 16, .	0.7	3
9	Pressure-driven flow of the viscoelastic Oldroyd-B fluid in narrow non-uniform geometries: analytical results and comparison with simulations. <i>Journal of Fluid Mechanics</i> , 2022, 936, .	3.4	14
10	From dynamic self-organization to avalanching instabilities in soft-granular threads. <i>Soft Matter</i> , 2022, 18, 1801-1818.	2.7	0
11	Symmetry breaking of a parallel two-phase flow in a finite length channel. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	1
12	Coupling of translation and rotation in the motion of finite-length rods near solid boundaries. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	3.4	2
13	Motion of asymmetric bodies in two-dimensional shear flow. <i>Journal of Fluid Mechanics</i> , 2022, 939, .	3.4	5
14	Introduction: Microfluidics. <i>Chemical Reviews</i> , 2022, 122, 6919-6920.	47.7	20
15	Generating Resonant and Repeated Root Solutions to Ordinary Differential Equations Using Perturbation Methods. <i>SIAM Review</i> , 2022, 64, 485-499.	9.5	2
16	Diffusioosmosis-driven dispersion of colloids: a Taylor dispersion analysis with experimental validation. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	13
17	The effects of surface hydration on capillary adhesion under nanoscale confinement. <i>Soft Matter</i> , 2022, 18, 4786-4791.	2.7	1
18	Solutal-buoyancy-driven intertwining and rotation of patterned elastic sheets. , 2022, 1, .		1

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19	Possible, impossible, and expected diameters and production rates of droplets in aerosols and sprays. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	1
20	Spongy all-in-liquid materials by in-situ formation of emulsions at oil-water interfaces. <i>Nature Communications</i> , 2022, 13, .	12.8	13
21	Plasmodesmata and the problems with size: Interpreting the confusion. <i>Journal of Plant Physiology</i> , 2021, 257, 153341.	3.5	22
22	CO ₂ -Driven diffusiophoresis and water cleaning: similarity solutions for predicting the exclusion zone in a channel flow. <i>Lab on A Chip</i> , 2021, 21, 3387-3400.	6.0	10
23	Roadmap on emerging concepts in the physical biology of bacterial biofilms: from surface sensing to community formation. <i>Physical Biology</i> , 2021, 18, 051501.	1.8	46
24	CO ₂ -Driven diffusiophoresis for maintaining a bacteria-free surface. <i>Soft Matter</i> , 2021, 17, 2568-2576.	2.7	15
25	Electrostatic wrapping of a microfiber around a curved particle. <i>Soft Matter</i> , 2021, 17, 3609-3618.	2.7	6
26	Simulation of impulsively induced viscoelastic jets using the Oldroyd-B model. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	2
27	Microswimmers near corrugated, periodic surfaces. <i>Soft Matter</i> , 2021, 17, 3322-3332.	2.7	7
28	Viscous backflow from a model fracture network: influence of a permeable boundary. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	1
29	Non-unique bubble dynamics in a vertical capillary with an external flow. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	5
30	Universal features of the shape of elastic fibres in shear flow. <i>Journal of Fluid Mechanics</i> , 2021, 914, .	3.4	18
31	Draining and spreading along geometries that cause converging flows: Viscous gravity currents on a downward-pointing cone and a bowl-shaped hemisphere. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	7
32	Chemically Triggered Coalescence and Reactivity of Droplet Fibers. <i>Journal of the American Chemical Society</i> , 2021, 143, 5558-5564.	13.7	8
33	Hydrophilic slippery surface enabled coarsening effect for rapid water harvesting. <i>Cell Reports Physical Science</i> , 2021, 2, 100387.	5.6	37
34	Diffusiophoresis and diffusioosmosis in tandem: Two-dimensional particle motion in the presence of multiple electrolytes. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	22
35	Hierarchical transitions and fractal wrinkling drive bacterial pellicle morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
36	Effect of gravity on the shape of a droplet on a fiber: Nearly axisymmetric profiles with experimental validation. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6

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37	Hydraulic transmissivity inferred from ice-sheet relaxation following Greenland supraglacial lake drainages. <i>Nature Communications</i> , 2021, 12, 3955.	12.8	13
38	Low-Reynolds-number, biflagellated Quincke swimmers with multiple forms of motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
39	Evaporation of Binary-Mixture Liquid Droplets: The Formation of Picoliter Pancakelike Shapes. <i>Physical Review Letters</i> , 2021, 127, 024501.	7.8	27
40	Flow rateâ€“pressure drop relation for shear-thinning fluids in narrow channels: approximate solutions and comparison with experiments. <i>Journal of Fluid Mechanics</i> , 2021, 923, .	3.4	13
41	Electrostatics, conformation, and rheology of unentangled semidilute polyelectrolyte solutions. <i>Journal of Rheology</i> , 2021, 65, 507-526.	2.6	10
42	Diffusion and flow across shape-perturbed plasmodesmata nanopores in plants. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	2
43	Reciprocal theorem for calculating the flow rateâ€“pressure drop relation for complex fluids in narrow geometries. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	15
44	Relaxation of a fluid-filled blister on a porous substrate. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	3
45	Motion of a tightly fitting axisymmetric object through a lubricated elastic tube. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	3.4	3
46	Evaporation of multiple droplets. <i>Journal of Fluid Mechanics</i> , 2021, 927, .	3.4	17
47	Evidence for biosurfactant-induced flow in corners and bacterial spreading in unsaturated porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2111060118.	7.1	10
48	Membrane science emerging as a convergent scientific field with molecular origins and understanding, and global impact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
49	Confinement size determines the architecture of Ran-induced microtubule networks. <i>Soft Matter</i> , 2021, 17, 5921-5931.	2.7	3
50	A hydrodynamic instability drives protein droplet formation on microtubules to nucleate branches. <i>Nature Physics</i> , 2021, 17, 493-498.	16.7	50
51	4D imaging reveals mechanisms of clay-carbon protection and release. <i>Nature Communications</i> , 2021, 12, 622.	12.8	39
52	Metal-catalyst-free gas-phase synthesis of long-chain hydrocarbons. <i>Nature Communications</i> , 2021, 12, 5937.	12.8	7
53	Quantifying the effect of a mask on expiratory flows. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	13
54	Tracking the air exhaled by an opera singer. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6

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55	A geometric criterion for the optimal spreading of active polymers in porous media. <i>Nature Communications</i> , 2021, 12, 7088.	12.8	35
56	Start-up flow in shallow deformable microchannels. <i>Journal of Fluid Mechanics</i> , 2020, 885, .	3.4	19
57	Speech can produce jet-like transport relevant to asymptomatic spreading of virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25237-25245.	7.1	165
58	Free-Surface Liquid Lithium Flow Modeling and Stability Analysis for Fusion Applications. <i>Journal of Fusion Energy</i> , 2020, 39, 455-461.	1.2	1
59	CO ₂ -leakage-driven diffusiophoresis causes spontaneous accumulation of charged materials in channel flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25985-25990.	7.1	10
60	Self-Propelled Supracolloidal Fibers from Multifunctional Polymer Surfactants and Droplets. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000334.	3.9	6
61	Thermodynamics of Electrical Double Layers with Electrostatic Correlations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26830-26842.	3.1	10
62	Self-Similar Draining near a Vertical Edge. <i>Physical Review Letters</i> , 2020, 125, 064502.	7.8	6
63	A new wrinkle on liquid sheets: Turning the mechanism of viscous bubble collapse upside down. <i>Science</i> , 2020, 369, 685-688.	12.6	59
64	Charging Dynamics of Overlapping Double Layers in a Cylindrical Nanopore. <i>Physical Review Letters</i> , 2020, 125, 076001.	7.8	46
65	Ions in an AC Electric Field: Strong Long-Range Repulsion between Oppositely Charged Surfaces. <i>Physical Review Letters</i> , 2020, 125, 056001.	7.8	17
66	Ionic Layering and Overcharging in Electrical Double Layers in a Poisson-Boltzmann Model. <i>Physical Review Letters</i> , 2020, 125, 188004.	7.8	28
67	Phase synchronization of fluid-fluid interfaces as hydrodynamically coupled oscillators. <i>Nature Communications</i> , 2020, 11, 5221.	12.8	10
68	Formation, Rupture, and Healing of an Annular Viscous Film. <i>Physical Review Letters</i> , 2020, 124, 224501.	7.8	3
69	Symmetrization of Thin Freestanding Liquid Films via a Capillary-Driven Flow. <i>Physical Review Letters</i> , 2020, 124, 184502.	7.8	6
70	Cell position fates and collective fountain flow in bacterial biofilms revealed by light-sheet microscopy. <i>Science</i> , 2020, 369, 71-77.	12.6	106
71	Silver-Based Self-Powered pH-Sensitive Pump and Sensor. <i>Langmuir</i> , 2020, 36, 7948-7955.	3.5	10
72	Stability of force-driven shear flows in nonequilibrium molecular simulations with periodic boundaries. <i>Journal of Chemical Physics</i> , 2020, 152, 214113.	3.0	0

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73	Nonuniform growth and surface friction determine bacterial biofilm morphology on soft substrates. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7622-7632.	7.1	82
74	Rotation of a submerged finite cylinder moving down a soft incline. Soft Matter, 2020, 16, 4000-4007.	2.7	10
75	Diffusiophoresis in Multivalent Electrolytes. Langmuir, 2020, 36, 7014-7020.	3.5	43
76	Chemically controlled shape-morphing of elastic sheets. Materials Horizons, 2020, 7, 2314-2327.	12.2	13
77	Diffusiophoresis: from dilute to concentrated electrolytes. Soft Matter, 2020, 16, 6975-6984.	2.7	43
78	Flexible fibers in shear flow approach attracting periodic solutions. Physical Review E, 2020, 101, 023104.	2.1	14
79	Harnessing elasticity to generate self-oscillation via an electrohydrodynamic instability. Journal of Fluid Mechanics, 2020, 888, .	3.4	15
80	Marangoni-driven film climbing on a draining pre-wetted film. Journal of Fluid Mechanics, 2020, 886, .	3.4	6
81	Influence of Salt on the Viscosity of Polyelectrolyte Solutions. Physical Review Letters, 2020, 124, 177801.	7.8	14
82	Particle motion nearby rough surfaces. Physical Review Fluids, 2020, 5, .	2.5	17
83	Stretching and break-up of saliva filaments during speech: A route for pathogen aerosolization and its potential mitigation. Physical Review Fluids, 2020, 5, .	2.5	63
84	Towards improved social distancing guidelines: Space and time dependence of virus transmission from speech-driven aerosol transport between two individuals. Physical Review Fluids, 2020, 5, .	2.5	56
85	The transition state and regulation of $\hat{1}^3$ -TuRC-mediated microtubule nucleation revealed by single molecule microscopy. ELife, 2020, 9, .	6.0	45
86	Rotating tensiometer for the measurement of the elastic modulus of deformable particles. Physical Review Fluids, 2020, 5, .	2.5	3
87	Regime Map and Triple Point in Selective Withdrawal. Physical Review Letters, 2020, 125, 264502.	7.8	4
88	Buoyancy and capillary effects on floating liquid lenses. Physical Review Fluids, 2020, 5, .	2.5	2
89	Representative subsampling of sedimenting blood. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190223.	2.1	3
90	Chemotaxis in shear flow: Similarity solutions of the steady-state chemoattractant and bacterial distributions. AIChE Journal, 2019, 65, e16713.	3.6	2

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91	Inertial gravity current produced by the drainage of a cylindrical reservoir from an outer or inner edge. <i>Journal of Fluid Mechanics</i> , 2019, 874, 185-209.	3.4	6
92	Rapid Spreading of a Droplet on a Thin Soap Film. <i>Langmuir</i> , 2019, 35, 14855-14860.	3.5	13
93	Mechanical instability and interfacial energy drive biofilm morphogenesis. <i>ELife</i> , 2019, 8, .	6.0	67
94	The effects of a horizontal magnetic field on the Rayleigh-Taylor instability. <i>Nuclear Materials and Energy</i> , 2019, 18, 175-181.	1.3	9
95	Design Of An Optofluidic Device For The Measurement Of The Elastic Modulus Of Deformable Particles. <i>EPJ Web of Conferences</i> , 2019, 215, 14003.	0.3	0
96	Quantifying Dynamics in Phase-Separated Condensates Using Fluorescence Recovery after Photobleaching. <i>Biophysical Journal</i> , 2019, 117, 1285-1300.	0.5	208
97	The reciprocal theorem in fluid dynamics and transport phenomena. <i>Journal of Fluid Mechanics</i> , 2019, 879, .	3.4	92
98	Characterization of surface-solute interactions by diffusioosmosis. <i>Soft Matter</i> , 2019, 15, 1582-1596.	2.7	22
99	Design of a microfluidic device for the measurement of the elastic modulus of deformable particles. <i>Soft Matter</i> , 2019, 15, 880-889.	2.7	14
100	Submicron aerosols of liquid fuels: Method of production, experimental characterization and a semi-empirical model. <i>Applied Energy</i> , 2019, 235, 1651-1663.	10.1	7
101	Pressure-driven flow across a hyperelastic porous membrane. <i>Journal of Fluid Mechanics</i> , 2019, 871, 742-754.	3.4	9
102	Restoring universality to the pinch-off of a bubble. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13780-13784.	7.1	18
103	Microfluidic-based transcriptomics reveal force-independent bacterial rheosensing. <i>Nature Microbiology</i> , 2019, 4, 1274-1281.	13.3	53
104	Particle entrainment in dead-end pores by diffusiophoresis. <i>Soft Matter</i> , 2019, 15, 3879-3885.	2.7	39
105	Identification of a Molecular Latch that Regulates Staphylococcal Virulence. <i>Cell Chemical Biology</i> , 2019, 26, 548-558.e4.	5.2	18
106	Autophoresis of two adsorbing/desorbing particles in an electrolyte solution. <i>Journal of Fluid Mechanics</i> , 2019, 865, 440-459.	3.4	8
107	Backflow from a model fracture network: an asymptotic investigation. <i>Journal of Fluid Mechanics</i> , 2019, 864, 899-924.	3.4	7
108	Diffusion of multiple electrolytes cannot be treated independently: model predictions with experimental validation. <i>Soft Matter</i> , 2019, 15, 9965-9973.	2.7	24

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109	A quantitative study of the effect of flow on the photopolymerization of fibers. <i>Soft Matter</i> , 2019, 15, 9553-9564.	2.7	3
110	Diffusiophoresis in ionic surfactants: effect of micelle formation. <i>Soft Matter</i> , 2019, 15, 278-288.	2.7	13
111	Dynamics of long gas bubbles rising in a vertical tube in a cocurrent liquid flow. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	18
112	Fountain mixing in a filling box at low Reynolds numbers. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	10
113	Diffusiophoretic and diffusioosmotic velocities for mixtures of valence-asymmetric electrolytes. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	50
114	Propulsion driven by self-oscillation via an electrohydrodynamic instability. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	17
115	Effect of streamwise cross-sectional variation on liquid retention in liquid-infused substrates under an external flow. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	2
116	Pattern formation in oil-in-water emulsions exposed to a salt gradient. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	1
117	Role of extensional rheology on droplet bouncing. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	24
118	Deposition-on-contact regime and the effect of donor-acceptor distance during laser-induced forward transfer of viscoelastic liquids. <i>Optical Materials Express</i> , 2019, 9, 2738.	3.0	7
119	Spatiotemporal organization of branched microtubule networks. <i>ELife</i> , 2019, 8, .	6.0	52
120	Flow rate–pressure drop relation for deformable shallow microfluidic channels. <i>Journal of Fluid Mechanics</i> , 2018, 841, 267-286.	3.4	79
121	Viscoplastic Matrix Materials for Embedded 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23353-23361.	8.0	167
122	Suppressing viscous fingering in structured porous media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4833-4838.	7.1	107
123	Impulsively Induced Jets from Viscoelastic Films for High-Resolution Printing. <i>Physical Review Letters</i> , 2018, 120, 074501.	7.8	40
124	Healing capillary films. <i>Journal of Fluid Mechanics</i> , 2018, 838, 404-434.	3.4	23
125	Impact of diversity of morphological characteristics and Reynolds number on local hemodynamics in basilar aneurysms. <i>AIChE Journal</i> , 2018, 64, 2792-2802.	3.6	1
126	Dewetting of Thin Liquid Films Surrounding Air Bubbles in Microchannels. <i>Langmuir</i> , 2018, 34, 1363-1370.	3.5	22

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127	Flow past finite cylinders of constant curvature. <i>Journal of Fluid Mechanics</i> , 2018, 837, 896-915.	3.4	10
128	Cleaning by Surfactant Gradients: Particulate Removal from Porous Materials and the Significance of Rinsing in Laundry Detergency. <i>Physical Review Applied</i> , 2018, 9, .	3.8	57
129	Dynamics of viscous backflow from a model fracture network. <i>Journal of Fluid Mechanics</i> , 2018, 836, 828-849.	3.4	16
130	Laser-induced forward transfer from healing silver paste films. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	11
131	Bacterial Biofilm Material Properties Enable Removal and Transfer by Capillary Peeling. <i>Advanced Materials</i> , 2018, 30, e1804153.	21.0	62
132	Time-dependent motion of a confined bubble in a tube: transition between two steady states. <i>Journal of Fluid Mechanics</i> , 2018, 857, .	3.4	10
133	Cell Membranes Resist Flow. <i>Cell</i> , 2018, 175, 1769-1779.e13.	28.9	254
134	Uniform Coating of Self-Assembled Noniridescent Colloidal Nanostructures using the Marangoni Effect and Polymers. <i>Physical Review Applied</i> , 2018, 10, .	3.8	13
135	Membrane-induced hydroelastic migration of a particle surfing its own wave. <i>Nature Physics</i> , 2018, 14, 1211-1215.	16.7	39
136	Building Supracolloidal Fibers from Zwitterion- ζ -Stabilized Adhesive Emulsions. <i>Advanced Functional Materials</i> , 2018, 28, 1804325.	14.9	15
137	Diffusiophoresis in narrow channel flows. <i>Journal of Fluid Mechanics</i> , 2018, 854, 420-448.	3.4	40
138	Electrical Double Layers: Effects of Asymmetry in Electrolyte Valence on Steric Effects, Dielectric Decrement, and Ion-Ion Correlations. <i>Langmuir</i> , 2018, 34, 11971-11985.	3.5	47
139	Dynamic regimes of electrified liquid filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6159-6164.	7.1	25
140	Salt type and concentration affect the viscoelasticity of polyelectrolyte solutions. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	29
141	Diffusiophoresis of a charged drop. <i>Journal of Fluid Mechanics</i> , 2018, 852, 37-59.	3.4	37
142	Visualization of Surfactant Dynamics to and along Oil-Water Interfaces Using Solvatochromic Fluorescent Surfactants. <i>Langmuir</i> , 2018, 34, 10512-10522.	3.5	12
143	Foam-driven fracture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8082-8086.	7.1	20
144	Invisible Anchors Trap Particles in Branching Junctions. <i>Physical Review Letters</i> , 2018, 121, 054502.	7.8	16

#	ARTICLE	IF	CITATIONS
145	Direct measurement of selective evaporation of binary mixture droplets by dissolving materials. <i>Journal of Fluid Mechanics</i> , 2018, 850, 769-783.	3.4	40
146	Separation of particles by size from a suspension using the motion of a confined bubble. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	16
147	Flow-induced phase separation of active particles is controlled by boundary conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5403-5408.	7.1	72
148	Dynamic switching enables efficient bacterial colonization in flow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5438-5443.	7.1	19
149	Rotation of a low-Reynolds-number watermill: theory and simulations. <i>Journal of Fluid Mechanics</i> , 2018, 849, 57-75.	3.4	2
150	Verticalization of bacterial biofilms. <i>Nature Physics</i> , 2018, 14, 954-960.	16.7	92
151	Universality in the nonlinear leveling of capillary films. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	10
152	Reciprocal theorem for the prediction of the normal force induced on a particle translating parallel to an elastic membrane. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	21
153	Bubble-Driven Detachment of Bacteria from Confined Microgeometries. <i>Environmental Science & Technology</i> , 2017, 51, 1340-1347.	10.0	48
154	Vortex breakdown, linear global instability and sensitivity of pipe bifurcation flows. <i>Journal of Fluid Mechanics</i> , 2017, 815, 257-294.	3.4	22
155	Oil-impregnated Nanoporous Oxide Layer for Corrosion Protection with Self-Healing. <i>Advanced Functional Materials</i> , 2017, 27, 1606040.	14.9	100
156	Entry and exit flows in curved pipes. <i>Journal of Fluid Mechanics</i> , 2017, 815, 570-591.	3.4	10
157	Sinking a Granular Raft. <i>Physical Review Letters</i> , 2017, 118, 108001.	7.8	22
158	Farming and public goods production in <i>Caenorhabditis elegans</i> populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2289-2294.	7.1	25
159	Membraneless water filtration using CO ₂ . <i>Nature Communications</i> , 2017, 8, 15181.	12.8	90
160	Formation of sea ice bridges in narrow straits in response to wind and water stresses. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5588-5610.	2.6	13
161	Diffusiophoretic manipulation of particles in a drop deposited on a hydrogel. <i>Soft Matter</i> , 2017, 13, 5122-5129.	2.7	9
162	Low-Cost Zeta Potentiometry Using Solute Gradients. <i>Advanced Materials</i> , 2017, 29, 1701516.	21.0	52

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163	Surface-attached molecules control <i>Staphylococcus aureus</i> quorum sensing and biofilm development. <i>Nature Microbiology</i> , 2017, 2, 17080.	13.3	95
164	Spontaneous formation of aligned DNA nanowires by capillarity-induced skin folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 6233-6237.	7.1	21
165	High-speed axial-scanning wide-field microscopy for volumetric particle tracking velocimetry. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	11
166	Wind-Driven Formation of Ice Bridges in Straits. <i>Physical Review Letters</i> , 2017, 118, 128701.	7.8	3
167	Hydrodynamic force on a sphere normal to an obstacle due to a non-uniform flow. <i>Journal of Fluid Mechanics</i> , 2017, 818, 407-434.	3.4	12
168	The influence of capillary effects on the drainage of a viscous gravity current into a deep porous medium. <i>Journal of Fluid Mechanics</i> , 2017, 817, 514-559.	3.4	19
169	Armoring confined bubbles in the flow of colloidal suspensions. <i>Soft Matter</i> , 2017, 13, 2857-2865.	2.7	23
170	Failure mechanisms of air entrainment in drop impact on lubricated surfaces. <i>Soft Matter</i> , 2017, 13, 2402-2409.	2.7	31
171	Extended lubrication theory: improved estimates of flow in channels with variable geometry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170234.	2.1	26
172	Water-Based Peeling of Thin Hydrophobic Films. <i>Physical Review Letters</i> , 2017, 119, 154502.	7.8	34
173	Motion of a Free-Settling Spherical Particle Driven by a Laser-Induced Bubble. <i>Physical Review Letters</i> , 2017, 119, 084501.	7.8	58
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