

Howard A Stone

List of Publications by Year in descending order

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582
papers

49,185
citations

1716

104
h-index

2249

201
g-index

605
all docs

605
docs citations

605
times ranked

33913
citing authors

#	ARTICLE	IF	CITATIONS
1	Chaotic Mixer for Microchannels. <i>Science</i> , 2002, 295, 647-651.	12.8	2,963
2	Formation of dispersions using "flow focusing" in microchannels. <i>Applied Physics Letters</i> , 2003, 82, 364-366.	3.4	1,998
3	Monodisperse Double Emulsions Generated from a Microcapillary Device. <i>Science</i> , 2005, 308, 537-541.	12.8	1,923
4	Formation of droplets and bubbles in a microfluidic T-junction" scaling and mechanism of break-up. <i>Lab on A Chip</i> , 2006, 6, 437.	6.0	1,863
5	Microscopic artificial swimmers. <i>Nature</i> , 2005, 437, 862-865.	28.1	1,595
6	Dynamics of Drop Deformation and Breakup in Viscous Fluids. <i>Annual Review of Fluid Mechanics</i> , 1994, 26, 65-102.	25.3	1,001
7	Swimming in Circles: Motion of Bacteria near Solid Boundaries. <i>Biophysical Journal</i> , 2006, 90, 400-412.	0.5	805
8	Generation of Monodisperse Particles by Using Microfluidics: Control over Size, Shape, and Composition. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 724-728.	14.2	700
9	Effective slip in pressure-driven Stokes flow. <i>Journal of Fluid Mechanics</i> , 2003, 489, 55-77.	3.4	640
10	Transition from squeezing to dripping in a microfluidic T-shaped junction. <i>Journal of Fluid Mechanics</i> , 2008, 595, 141-161.	3.4	571
11	Formation of monodisperse bubbles in a microfluidic flow-focusing device. <i>Applied Physics Letters</i> , 2004, 85, 2649-2651.	3.4	563
12	Coalescence of liquid drops. <i>Journal of Fluid Mechanics</i> , 1999, 401, 293-310.	3.4	554
13	Influence of Substrate Conductivity on Circulation Reversal in Evaporating Drops. <i>Physical Review Letters</i> , 2007, 99, 234502.	7.9	484
14	Dynamic self-assembly of magnetized, millimetre-sized objects rotating at a liquid"air interface. <i>Nature</i> , 2000, 405, 1033-1036.	28.1	481
15	Mechanism for Flow-Rate Controlled Breakup in Confined Geometries: A Route to Monodisperse Emulsions. <i>Physical Review Letters</i> , 2005, 94, 164501.	7.9	480
16	Experimental and theoretical scaling laws for transverse diffusive broadening in two-phase laminar flows in microchannels. <i>Applied Physics Letters</i> , 2000, 76, 2376-2378.	3.4	478
17	Microfluidics: Basic issues, applications, and challenges. <i>AIChE Journal</i> , 2001, 47, 1250-1254.	3.6	459
18	The Mechanical World of Bacteria. <i>Cell</i> , 2015, 161, 988-997.	29.2	422

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19	An experimental study of transient effects in the breakup of viscous drops. <i>Journal of Fluid Mechanics</i> , 1986, 173, 131-158.	3.4	387
20	A simple derivation of the time-dependent convective-diffusion equation for surfactant transport along a deforming interface. <i>Physics of Fluids A, Fluid Dynamics</i> , 1990, 2, 111-112.	1.6	380
21	Relaxation and breakup of an initially extended drop in an otherwise quiescent fluid. <i>Journal of Fluid Mechanics</i> , 1989, 198, 399.	3.4	364
22	A Generalized View of Foam Drainage: Experiment and Theory. <i>Langmuir</i> , 2000, 16, 6327-6341.	3.6	364
23	Propulsion of Microorganisms by Surface Distortions. <i>Physical Review Letters</i> , 1996, 77, 4102-4104.	7.9	360
24	The effects of surfactants on drop deformation and breakup. <i>Journal of Fluid Mechanics</i> , 1990, 220, 161-186.	3.4	348
25	Wrinkles and deep folds as photonic structures in photovoltaics. <i>Nature Photonics</i> , 2012, 6, 327-332.	32.0	346
26	The pressure drop along rectangular microchannels containing bubbles. <i>Lab on A Chip</i> , 2007, 7, 1479.	6.0	334
27	Type IV pili mechanochemically regulate virulence factors in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7563-7568.	7.2	320
28	Microfluidic flow focusing: Drop size and scaling in pressure versus flow-rate-driven pumping. <i>Electrophoresis</i> , 2005, 26, 3716-3724.	2.5	309
29	Solutions to the Public Goods Dilemma in Bacterial Biofilms. <i>Current Biology</i> , 2014, 24, 50-55.	4.0	307
30	Emulsification in a microfluidic flow-focusing device: effect of the viscosities of the liquids. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 585-594.	2.2	299
31	Dripping and jetting in microfluidic multiphase flows applied to particle and fibre synthesis. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 114002.	2.9	296
32	Inhaling to mitigate exhaled bioaerosols. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17383-17388.	7.2	294
33	Biofilm streamers cause catastrophic disruption of flow with consequences for environmental and medical systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4345-4350.	7.2	283
34	On self-propulsion of micro-machines at low Reynolds number: Purcells three-link swimmer. <i>Journal of Fluid Mechanics</i> , 2003, 490, 15-35.	3.4	275
35	Imbibition by polygonal spreading on microdecorated surfaces. <i>Nature Materials</i> , 2007, 6, 661-664.	28.1	274
36	Capillary breakup of a viscous thread surrounded by another viscous fluid. <i>Physics of Fluids</i> , 1998, 10, 2758-2764.	4.0	270

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37	Satellite and subsatellite formation in capillary breakup. <i>Journal of Fluid Mechanics</i> , 1992, 243, 297.	3.4	262
38	Cell Membranes Resist Flow. <i>Cell</i> , 2018, 175, 1769-1779.e13.	29.2	254
39	Controlled assembly of jammed colloidal shells on fluid droplets. <i>Nature Materials</i> , 2005, 4, 553-556.	28.1	253
40	Short-Time Dynamics of Partial Wetting. <i>Physical Review Letters</i> , 2008, 100, 234501.	7.9	246
41	Shear-Driven Failure of Liquid-Infused Surfaces. <i>Physical Review Letters</i> , 2015, 114, 168301.	7.9	240
42	Dynamics of shear-induced ATP release from red blood cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16432-16437.	7.2	235
43	Non-coalescence of oppositely charged drops. <i>Nature</i> , 2009, 461, 377-380.	28.1	235
44	Controlled Uniform Coating from the Interplay of Marangoni Flows and Surface-Adsorbed Macromolecules. <i>Physical Review Letters</i> , 2016, 116, 124501.	7.9	231
45	Wetting of flexible fibre arrays. <i>Nature</i> , 2012, 482, 510-513.	28.1	229
46	Dynamics of Coarsening Foams: Accelerated and Self-Limiting Drainage. <i>Physical Review Letters</i> , 2001, 86, 4704-4707.	7.9	221
47	Hierarchical folding of elastic membranes under biaxial compressive stress. <i>Nature Materials</i> , 2011, 10, 952-957.	28.1	218
48	Scaling laws for the thrust production of flexible pitching panels. <i>Journal of Fluid Mechanics</i> , 2013, 732, 29-46.	3.4	208
49	Quantifying Dynamics in Phase-Separated Condensates Using Fluorescence Recovery after Photobleaching. <i>Biophysical Journal</i> , 2019, 117, 1285-1300.	0.5	208
50	Surface Morphology of Drying Latex Films: A Multiple Ring Formation. <i>Langmuir</i> , 2002, 18, 3441-3445.	3.6	206
51	Control of interfacial instabilities using flow geometry. <i>Nature Physics</i> , 2012, 8, 747-750.	16.8	198
52	Dynamic self-assembly and control of microfluidic particle crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22413-22418.	7.2	193
53	Size-dependent control of colloid transport via solute gradients in dead-end channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 257-261.	7.2	189
54	Liquid Flow through Aqueous Foams: The Node-Dominated Foam Drainage Equation. <i>Physical Review Letters</i> , 1999, 82, 4232-4235.	7.9	186

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55	Geometric Cue for Protein Localization in a Bacterium. <i>Science</i> , 2009, 323, 1354-1357.	12.8	186
56	Daughter bubble cascades produced by folding of ruptured thin films. <i>Nature</i> , 2010, 465, 759-762.	28.1	182
57	Architectural transitions in <i>Vibrio cholerae</i> biofilms at single-cell resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2066-72.	7.2	178
58	Laminar flow around corners triggers the formation of biofilm streamers. <i>Journal of the Royal Society Interface</i> , 2010, 7, 1293-1299.	3.4	172
59	Electrohydrodynamic deformation and interaction of drop pairs. <i>Journal of Fluid Mechanics</i> , 1998, 368, 359-375.	3.4	171
60	Viscoplastic Matrix Materials for Embedded 3D Printing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23353-23361.	8.2	167
61	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.	7.2	165
62	Ice-Phobic Surfaces That Are Wet. <i>ACS Nano</i> , 2012, 6, 6536-6540.	14.9	163
63	High-speed microfluidic differential manometer for cellular-scale hydrodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 538-542.	7.2	160
64	Cellular-scale hydrodynamics. <i>Biomedical Materials (Bristol)</i> , 2008, 3, 034011.	3.4	159
65	<i>Vibrio cholerae</i> biofilm growth program and architecture revealed by single-cell live imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5337-43.	7.2	159
66	High-Density Regular Arrays of Nanometer-Scale Rods Formed on Silicon Surfaces via Femtosecond Laser Irradiation in Water. <i>Nano Letters</i> , 2008, 8, 2087-2091.	9.3	157
67	The effect of surfactant on the transient motion of Newtonian drops. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 69-79.	1.6	155
68	Imbibition in Porous Membranes of Complex Shape: Quasi-stationary Flow in Thin Rectangular Segments. <i>Langmuir</i> , 2010, 26, 1380-1385.	3.6	154
69	Dissolution Arrest and Stability of Particle-Covered Bubbles. <i>Physical Review Letters</i> , 2007, 99, 188301.	7.9	150
70	Multiscale approach to link red blood cell dynamics, shear viscosity, and ATP release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10986-10991.	7.2	149
71	Shear Stress Increases the Residence Time of Adhesion of <i>Pseudomonas aeruginosa</i> . <i>Biophysical Journal</i> , 2011, 100, 341-350.	0.5	145
72	The dynamic behavior of chemically "stiffened" red blood cells in microchannel flows. <i>Microvascular Research</i> , 2010, 80, 37-43.	2.5	143

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73	Geometrical focusing of cells in a microfluidic device: an approach to separate blood plasma. <i>Biorheology</i> , 2006, 43, 147-59.	0.8	143
74	Effect of Microtextured Surface Topography on the Wetting Behavior of Eutectic Gallium-Indium Alloys. <i>Langmuir</i> , 2014, 30, 533-539.	3.6	142
75	Drop formation in viscous flows at a vertical capillary tube. <i>Physics of Fluids</i> , 1997, 9, 2234-2242.	4.0	139
76	Hydrodynamic Dispersion in Shallow Microchannels: the Effect of Cross-Sectional Shape. <i>Analytical Chemistry</i> , 2006, 78, 387-392.	6.6	139
77	Controllable Microfluidic Production of Microbubbles in Water-in-Oil Emulsions and the Formation of Porous Microparticles. <i>Advanced Materials</i> , 2008, 20, 3314-3318.	21.5	139
78	Interfacial Polygonal Nanopatterning of Stable Microbubbles. <i>Science</i> , 2008, 320, 1198-1201.	12.8	137
79	Local and global consequences of flow on bacterial quorum sensing. <i>Nature Microbiology</i> , 2016, 1, 15005.	13.5	137
80	Thermal and fluid processes of a thin melt zone during femtosecond laser ablation of glass: the formation of rims by single laser pulses. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1447-1459.	2.9	135
81	An Accurate von Neumann's Law for Three-Dimensional Foams. <i>Physical Review Letters</i> , 2001, 86, 2685-2688.	7.9	134
82	Imbibition in geometries with axial variations. <i>Journal of Fluid Mechanics</i> , 2008, 615, 335-344.	3.4	134
83	Bending and twisting of soft materials by non-homogenous swelling. <i>Soft Matter</i> , 2011, 7, 5188.	2.8	134
84	Hydrodynamics of particles embedded in a flat surfactant layer overlying a subphase of finite depth. <i>Journal of Fluid Mechanics</i> , 1998, 369, 151-173.	3.4	132
85	Pumping-out photo-surfactants from an air-water interface using light. <i>Soft Matter</i> , 2011, 7, 7866.	2.8	130
86	On the dynamics of magnetically driven elastic filaments. <i>Journal of Fluid Mechanics</i> , 2006, 554, 167.	3.4	128
87	Breakup of concentric double emulsion droplets in linear flows. <i>Journal of Fluid Mechanics</i> , 1990, 211, 123-156.	3.4	126
88	Buoyancy-driven interactions between two deformable viscous drops. <i>Journal of Fluid Mechanics</i> , 1993, 256, 647-683.	3.4	126
89	A mathematical model for top-shelf vertigo: the role of sedimenting otoconia in BPPV. <i>Journal of Biomechanics</i> , 2004, 37, 1137-1146.	2.1	122
90	Pinching threads, singularities and the number 0.0304.... <i>Physics of Fluids</i> , 1996, 8, 2827-2836.	4.0	121

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91	Relaxation Time of the Topological T1 Process in a Two-Dimensional Foam. <i>Physical Review Letters</i> , 2006, 97, 226101.	7.9	121
92	Axial and lateral particle ordering in finite Reynolds number channel flows. <i>Physics of Fluids</i> , 2010, 22, .	4.0	121
93	Mechanics of surface area regulation in cells examined with confined lipid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9084-9088.	7.2	121
94	Fiber coating with surfactant solutions. <i>Physics of Fluids</i> , 2002, 14, 4055-4068.	4.0	119
95	Characteristic lengths at moving contact lines for a perfectly wetting fluid: the influence of speed on the dynamic contact angle. <i>Journal of Fluid Mechanics</i> , 2004, 505, 309-321.	3.4	119
96	Extracellular-matrix-mediated osmotic pressure drives <i>Vibrio cholerae</i> biofilm expansion and cheater exclusion. <i>Nature Communications</i> , 2017, 8, 327.	13.0	119
97	Critical Angle for Electrically Driven Coalescence of Two Conical Droplets. <i>Physical Review Letters</i> , 2009, 103, 164502.	7.9	118
98	Thermophoresis: microfluidics characterization and separation. <i>Soft Matter</i> , 2010, 6, 3489.	2.8	118
99	Liquid explosions induced by X-ray laser pulses. <i>Nature Physics</i> , 2016, 12, 966-971.	16.8	116
100	Morphology of femtosecond-laser-ablated borosilicate glass surfaces. <i>Applied Physics Letters</i> , 2003, 83, 3030-3032.	3.4	115
101	Drops with conical ends in electric and magnetic fields. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999, 455, 329-347.	2.1	114
102	Colloidal Crystallization and Banding in a Cylindrical Geometry. <i>Journal of the American Chemical Society</i> , 2004, 126, 5978-5979.	14.2	112
103	Two-Peak and Three-Peak Optimal Complex Networks. <i>Physical Review Letters</i> , 2004, 92, 118702.	7.9	110
104	Microstructure, Morphology, and Lifetime of Armored Bubbles Exposed to Surfactants. <i>Langmuir</i> , 2006, 22, 5986-5990.	3.6	110
105	The influence of initial deformation on drop breakup in subcritical time-dependent flows at low Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 1989, 206, 223-263.	3.4	109
106	Effective slip boundary conditions for arbitrary periodic surfaces: the surface mobility tensor. <i>Journal of Fluid Mechanics</i> , 2010, 658, 409-437.	3.4	109
107	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.	7.2	107
108	Cell position fates and collective fountain flow in bacterial biofilms revealed by light-sheet microscopy. <i>Science</i> , 2020, 369, 71-77.	12.8	106

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109	Secondary Flow as a Mechanism for the Formation of Biofilm Streamers. <i>Biophysical Journal</i> , 2011, 100, 1392-1399.	0.5	101
110	Oil-impregnated Nanoporous Oxide Layer for Corrosion Protection with Self-Healing. <i>Advanced Functional Materials</i> , 2017, 27, 1606040.	15.1	100
111	Electroosmotic Flows Created by Surface Defects in Capillary Electrophoresis. <i>Journal of Colloid and Interface Science</i> , 1999, 212, 338-349.	9.5	99
112	Foam drainage on the microscale. <i>Journal of Colloid and Interface Science</i> , 2004, 276, 420-438.	9.5	99
113	Dynamics of wetting: from inertial spreading to viscous imbibition. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 464127.	1.8	98
114	Two-ply channels for faster wicking in paper-based microfluidic devices. <i>Lab on A Chip</i> , 2015, 15, 4461-4466.	6.0	98
115	The effect of surface tension on rimming flows in a partially filled rotating cylinder. <i>Journal of Fluid Mechanics</i> , 2003, 479, 65-98.	3.4	97
116	Dynamic, self-assembled aggregates of magnetized, millimeter-sized objects rotating at the liquid-air interface: Macroscopic, two-dimensional classical artificial atoms and molecules. <i>Physical Review E</i> , 2001, 64, 011603.	2.1	95
117	The curved shape of <i>Caulobacter crescentus</i> enhances surface colonization in flow. <i>Nature Communications</i> , 2014, 5, 3824.	13.0	95
118	Surface-attached molecules control <i>Staphylococcus aureus</i> quorum sensing and biofilm development. <i>Nature Microbiology</i> , 2017, 2, 17080.	13.5	95
119	Pressure-Driven Laminar Flow in Tangential Microchannels: An Elastomeric Microfluidic Switch. <i>Analytical Chemistry</i> , 2001, 73, 4682-4687.	6.6	94
120	Spreading of Viscous Fluid Drops on a Solid Substrate Assisted by Thermal Fluctuations. <i>Physical Review Letters</i> , 2005, 95, 244505.	7.9	94
121	Verticalization of bacterial biofilms. <i>Nature Physics</i> , 2018, 14, 954-960.	16.8	92
122	The reciprocal theorem in fluid dynamics and transport phenomena. <i>Journal of Fluid Mechanics</i> , 2019, 879, .	3.4	92
123	Chaotic streamlines inside drops immersed in steady Stokes flows. <i>Journal of Fluid Mechanics</i> , 1991, 232, 629.	3.4	91
124	Mechanics of Interfacial Composite Materials. <i>Langmuir</i> , 2006, 22, 10204-10208.	3.6	91
125	Membraneless water filtration using CO ₂ . <i>Nature Communications</i> , 2017, 8, 15181.	13.0	90
126	Microfluidic chest cavities reveal that transmural pressure controls the rate of lung development. <i>Development (Cambridge)</i> , 2017, 144, 4328-4335.	2.6	88

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127	Nanoemulsions obtained via bubble-bursting at a compound interface. <i>Nature Physics</i> , 2014, 10, 606-612.	16.8	85
128	Solutal Marangoni flows of miscible liquids drive transport without surface contamination. <i>Nature Physics</i> , 2017, 13, 1105-1110.	16.8	85
129	Splashing on elastic membranes: The importance of early-time dynamics. <i>Physics of Fluids</i> , 2008, 20, .	4.0	84
130	Low Reynolds number motion of bubbles, drops and rigid spheres through fluid-fluid interfaces. <i>Journal of Fluid Mechanics</i> , 1995, 287, 279-298.	3.4	83
131	Nonuniform growth and surface friction determine bacterial biofilm morphology on soft substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7622-7632.	7.2	82
132	Peristaltically driven channel flows with applications toward micromixing. <i>Physics of Fluids</i> , 2001, 13, 1837-1859.	4.0	80
133	Short and long time drop dynamics on lubricated substrates. <i>Europhysics Letters</i> , 2013, 104, 34008.	2.1	80
134	Marangoni Flow of Soluble Amphiphiles. <i>Physical Review Letters</i> , 2014, 112, .	7.9	80
135	Single-particle Brownian dynamics for characterizing the rheology of fluid Langmuir monolayers. <i>Europhysics Letters</i> , 2007, 79, 66005.	2.1	79
136	Reactions in double emulsions by flow-controlled coalescence of encapsulated drops. <i>Lab on A Chip</i> , 2011, 11, 2312.	6.0	79
137	Controlling viscous fingering in tapered Hele-Shaw cells. <i>Physics of Fluids</i> , 2013, 25, .	4.0	79
138	Flow rate-pressure drop relation for deformable shallow microfluidic channels. <i>Journal of Fluid Mechanics</i> , 2018, 841, 267-286.	3.4	79
139	Dynamics of foam drainage. <i>Physical Review E</i> , 1998, 58, 2097-2106.	2.1	78
140	Flow rate through microfilters: Influence of the pore size distribution, hydrodynamic interactions, wall slip, and inertia. <i>Physics of Fluids</i> , 2014, 26, .	4.0	77
141	Robust liquid-infused surfaces through patterned wettability. <i>Soft Matter</i> , 2015, 11, 5023-5029.	2.8	77
142	Characterization of syringe-pump-driven induced pressure fluctuations in elastic microchannels. <i>Lab on A Chip</i> , 2015, 15, 1110-1115.	6.0	77
143	Foam drainage on the microscale II. Imaging flow through single Plateau borders. <i>Journal of Colloid and Interface Science</i> , 2004, 276, 439-449.	9.5	76
144	Controlling Viscous Fingering Using Time-Dependent Strategies. <i>Physical Review Letters</i> , 2015, 115, 174501.	7.9	76

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145	Flow through beds of porous particles. <i>Chemical Engineering Science</i> , 1993, 48, 3993-4005.	3.9	75
146	Effect of viscosity ratio on the shear-driven failure of liquid-infused surfaces. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	75
147	Estimating interfacial tension via relaxation of drop shapes and filament breakup. <i>AIChE Journal</i> , 1994, 40, 385-394.	3.6	74
148	Unexpected trapping of particles at a T junction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4770-4775.	7.2	74
149	Collective hydrodynamics of deformable drops and bubbles in dilute low Reynolds number suspensions. <i>Journal of Fluid Mechanics</i> , 1995, 300, 231-263.	3.4	72
150	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.	7.2	72
151	Flow Directs Surface-Attached Bacteria to Twitch Upstream. <i>Biophysical Journal</i> , 2012, 103, 146-151.	0.5	70
152	Ordered Clusters and Dynamical States of Particles in a Vibrated Fluid. <i>Physical Review Letters</i> , 2002, 88, 234301.	7.9	69
153	Purcell's "rotator" mechanical rotation at low Reynolds number. <i>European Physical Journal B</i> , 2005, 47, 161-164.	1.5	69
154	Do magnetic micro-swimmers move like eukaryotic cells?. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 877-904.	2.1	69
155	Clinical Implications of a Mathematical Model of Benign Paroxysmal Positional Vertigo. <i>Annals of the New York Academy of Sciences</i> , 2005, 1039, 384-394.	3.9	68
156	Extensional deformation of Newtonian liquid bridges. <i>Physics of Fluids</i> , 1996, 8, 2568-2579.	4.0	67
157	An "off-the-shelf" capillary microfluidic device that enables tuning of the droplet breakup regime at constant flow rates. <i>Lab on A Chip</i> , 2013, 13, 4507.	6.0	67
158	Mechanical instability and interfacial energy drive biofilm morphogenesis. <i>ELife</i> , 2019, 8, .	6.1	67
159	Study of the Flow Field in the Magnetic Rod Interfacial Stress Rheometer. <i>Langmuir</i> , 2011, 27, 9345-9358.	3.6	66
160	Dynamics of self assembly of magnetized disks rotating at the liquid-air interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4147-4151.	7.2	65
161	Dip coating for the alignment of carbon nanotubes on curved surfaces. <i>Journal of Materials Chemistry</i> , 2004, 14, 1299.	6.7	65
162	Enzymatic Reactions in Microfluidic Devices: Michaelis-Menten Kinetics. <i>Analytical Chemistry</i> , 2008, 80, 3270-3276.	6.6	65

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163	A reciprocal theorem for Marangoni propulsion. <i>Journal of Fluid Mechanics</i> , 2014, 741, .	3.4	65
164	Droplet breakup in flow past an obstacle: A capillary instability due to permeability variations. <i>Europhysics Letters</i> , 2010, 92, 54002.	2.1	63
165	Stretching and break-up of saliva filaments during speech: A route for pathogen aerosolization and its potential mitigation. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	63
166	Interfacial instabilities in a microfluidic Hele-Shaw cell. <i>Soft Matter</i> , 2008, 4, 1403.	2.8	62
167	Bacterial Biofilm Material Properties Enable Removal and Transfer by Capillary Peeling. <i>Advanced Materials</i> , 2018, 30, e1804153.	21.5	62
168	Philip Saffman and viscous flow theory. <i>Journal of Fluid Mechanics</i> , 2000, 409, 165-183.	3.4	61
169	Biophysical characterization of organelle-based RNA/protein liquid phases using microfluidics. <i>Soft Matter</i> , 2016, 12, 9142-9150.	2.8	61
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