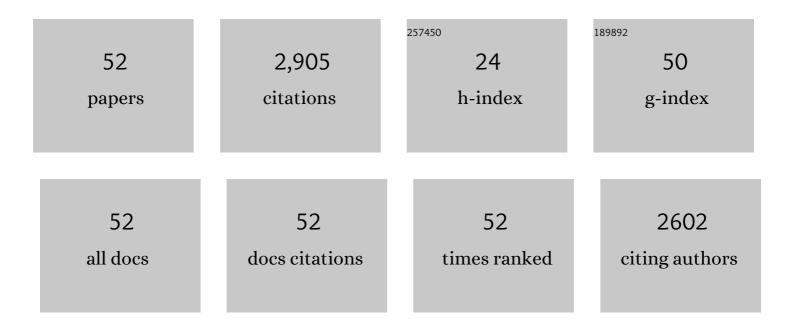


List of Publications by Year in descending order

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A F Hosou

#	Article	IF	CITATIONS
1	New measures for characterizing nonlinear viscoelasticity in large amplitude oscillatory shear. Journal of Rheology, 2008, 52, 1427-1458.	2.6	787
2	Rheological fingerprinting of gastropod pedal mucus and synthetic complex fluids for biomimicking adhesive locomotion. Soft Matter, 2007, 3, 634.	2.7	192
3	Optimal Stroke Patterns for Purcell's Three-Link Swimmer. Physical Review Letters, 2007, 98, 068105.	7.8	166
4	Marangoni convection in droplets on superhydrophobic surfaces. Journal of Fluid Mechanics, 2009, 624, 101-123.	3.4	149
5	Experimental investigations of elastic tail propulsion at low Reynolds number. Physics of Fluids, 2006, 18, 091701.	4.0	148
6	Building a better snail: Lubrication and adhesive locomotion. Physics of Fluids, 2005, 17, 113101.	4.0	116
7	The effect of surface tension on rimming flows in a partially filled rotating cylinder. Journal of Fluid Mechanics, 2003, 479, 65-98.	3.4	97
8	An experimental investigation of the stability of the circular hydraulic jump. Journal of Fluid Mechanics, 2006, 558, 33.	3.4	97
9	Soft Swimming: Exploiting Deformable Interfaces for Low Reynolds Number Locomotion. Physical Review Letters, 2008, 101, 048102.	7.8	90
10	Axial instability of a free-surface front in a partially filled horizontal rotating cylinder. Physics of Fluids, 1999, 11, 97-106.	4.0	87
11	Evaporative instabilities in climbing films. Journal of Fluid Mechanics, 2001, 442, 217-239.	3.4	81
12	Optimal feeding and swimming gaits of biflagellated organisms. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1001-1006.	7.1	80
13	Peeling, Healing, and Bursting in a Lubricated Elastic Sheet. Physical Review Letters, 2004, 93, 137802.	7.8	78
14	Theory for Shock Dynamics in Particle-Laden Thin Films. Physical Review Letters, 2005, 94, 117803.	7.8	67
15	Nonlinear viscoelastic biomaterials: meaningful characterization and engineering inspiration. Integrative and Comparative Biology, 2009, 49, 40-50.	2.0	67
16	Shock Solutions for Particle-Laden Thin Films. SIAM Journal on Applied Mathematics, 2008, 68, 760-783.	1.8	43
17	Optimal kinematics and morphologies for spermatozoa. Physical Review E, 2011, 83, 045303.	2.1	41
18	Thin films in partial wetting: stability, dewetting and coarsening. Journal of Fluid Mechanics, 2018, 845, 642-681.	3.4	41

A E Hosoi

#	Article	lF	CITATIONS
19	A two-dimensional model of low-Reynolds number swimming beneath a free surface. Journal of Fluid Mechanics, 2011, 681, 24-47.	3.4	40
20	Tuning gastropod locomotion: Modeling the influence of mucus rheology on the cost of crawling. Physics of Fluids, 2006, 18, 113102.	4.0	37
21	Controllable adhesion using field-activated fluids. Physics of Fluids, 2011, 23, .	4.0	37
22	Nonlinear flow response of soft hair beds. Nature Physics, 2017, 13, 1014-1019.	16.7	37
23	Crawling beneath the free surface: Water snail locomotion. Physics of Fluids, 2008, 20, .	4.0	35
24	Experimental study of gravitation effects in the flow of a particle-laden thin film on an inclined plane. Physics of Fluids, 2009, 21, .	4.0	32
25	Periodic Knolls and Valleys: Coexistence of Solid and Liquid States in Granular Suspensions. Physical Review Letters, 2004, 92, 224502.	7.8	22
26	Structure evolution in electrorheological fluids flowing through microchannels. Soft Matter, 2013, 9, 2889.	2.7	22
27	Mechanical Devices for Snail-like Locomotion. Journal of Intelligent Material Systems and Structures, 2007, 18, 111-116.	2.5	20
28	Viscous entrainment on hairy surfaces. Physical Review Fluids, 2018, 3, .	2.5	19
29	Confinement-induced stabilization of the Rayleigh-Taylor instability and transition to the unconfined limit. Science Advances, 2020, 6, .	10.3	18
30	Flagellar waveform dynamics of freely swimming algal cells. Physical Review E, 2013, 88, 013015.	2.1	17
31	Air entrainment in hairy surfaces. Physical Review Fluids, 2016, 1, .	2.5	15
32	An Ontology for Large Amplitude Oscillatory Shear Flow. AIP Conference Proceedings, 2008, , .	0.4	13
33	Lubrication in a corner. Journal of Fluid Mechanics, 2005, 544, 353.	3.4	12
34	Drag kings: characterizing large-scale flows in cycling aerodynamics. Journal of Fluid Mechanics, 2014, 748, 1-4.	3.4	12
35	Shape optimization of a sheet swimming over a thin liquid layer. Journal of Fluid Mechanics, 2008, 601, 25-61.	3.4	11
36	Flagellar kinematics reveals the role of environment in shaping sperm motility. Journal of the Royal Society Interface, 2020, 17, 20200525.	3.4	10

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37	Layer formation in monodispersive suspensions and colloids. Journal of Fluid Mechanics, 1996, 328, 297-311.	3.4	9
38	Spinodal decomposition in particle-laden Landau-Levich flow. Physics of Fluids, 2012, 24, .	4.0	9
39	Drop impact on hairy surfaces. Physical Review Fluids, 2019, 4, .	2.5	9
40	Pulling bubbles from a bath. Physics of Fluids, 2010, 22, 061705.	4.0	7
41	Fluid flow in the sarcomere. Archives of Biochemistry and Biophysics, 2021, 706, 108923.	3.0	6
42	Corner flow in free liquid films. Journal of Engineering Mathematics, 2004, 50, 267-288.	1.2	4
43	Mechanical Aspects of Biological Locomotion. Experimental Mechanics, 2010, 50, 1259-1261.	2.0	4
44	Marine crustaceans with hairy appendages: Role of hydrodynamic boundary layers in sensing and feeding. Physical Review Fluids, 2019, 4, .	2.5	4
45	Estimating the filtration efficacy of cloth masks. Physical Review Fluids, 2021, 6, .	2.5	4
46	Coarsening and solidification via solvent-annealing in thin liquid films. Journal of Fluid Mechanics, 2013, 723, 69-90.	3.4	3
47	Corrsin lecture on hairy hydrodynamics. Physical Review Fluids, 2019, 4, .	2.5	3
48	Tuning nanoscopic selfâ€assembly of diblock copolymer blends on a twoâ€dimensional interface. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 136-143.	2.1	2
49	Self-similar kinematics among efficient slenderÂswimmers. Journal of Fluid Mechanics, 2018, 840, 106-130.	3.4	2
50	Public health implications of opening National Football League stadiums during the COVID-19 pandemic. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2114226119.	7.1	2
51	Starting Problems in Mechanical Engineering. , 2018, , .		1
52	Instabilities and Taylor dispersion in isothermal binary thin fluid films. Physics of Fluids, 2008, 20, 102103.	4.0	0