

Hassan Masoud

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

32 papers	716 citations	17 h-index	26 g-index
37 ext. papers	883 ext. citations	4.2 avg, IF	4.68 L-index

#	Paper	IF	Citations
32	Controlled release of nanoparticles and macromolecules from responsive microgel capsules. <i>ACS Nano</i> , 2012 , 6, 212-9	16.7	72
31	Resonance of flexible flapping wings at low Reynolds number. <i>Physical Review E</i> , 2010 , 81, 056304	2.4	70
30	Hydrodynamic schooling of flapping swimmers. <i>Nature Communications</i> , 2015 , 6, 8514	17.4	60
29	A reciprocal theorem for Marangoni propulsion. <i>Journal of Fluid Mechanics</i> , 2014 , 741,	3.7	57
28	Analytical solution for Stokes flow inside an evaporating sessile drop: Spherical and cylindrical cap shapes. <i>Physics of Fluids</i> , 2009 , 21, 042102	4.4	43
27	Drag and diffusion coefficients of a spherical particle attached to a fluid-fluid interface. <i>Journal of Fluid Mechanics</i> , 2016 , 790, 607-618	3.7	42
26	The reciprocal theorem in fluid dynamics and transport phenomena. <i>Journal of Fluid Mechanics</i> , 2019 , 879,	3.7	40
25	Collective surfing of chemically active particles. <i>Physical Review Letters</i> , 2014 , 112, 128304	7.4	37
24	Designing maneuverable micro-swimmers actuated by responsive gel. <i>Soft Matter</i> , 2012 , 8, 8944	3.6	30
23	Permeability and Diffusion through Mechanically Deformed Random Polymer Networks. <i>Macromolecules</i> , 2010 , 43, 10117-10122	5.5	30
22	Harnessing synthetic cilia to regulate motion of microparticles. <i>Soft Matter</i> , 2011 , 7, 8702	3.6	28
21	Analytical solution for inviscid flow inside an evaporating sessile drop. <i>Physical Review E</i> , 2009 , 79, 016304	2.4	27
20	Alternative mechanism for coffee-ring deposition based on active role of free surface. <i>Physical Review E</i> , 2016 , 94, 063104	2.4	26
19	Mobility of membrane-trapped particles. <i>Journal of Fluid Mechanics</i> , 2015 , 781, 494-505	3.7	22
18	Modeling magnetic microcapsules that crawl in microchannels. <i>Soft Matter</i> , 2010 , 6, 794-799	3.6	21
17	Reverse Marangoni surfing. <i>Journal of Fluid Mechanics</i> , 2017 , 811, 612-621	3.7	18
16	Selective control of surface properties using hydrodynamic interactions. <i>Chemical Communications</i> , 2011 , 47, 472-4	5.8	17

15	On the rotation of porous ellipsoids in simple shear flows. <i>Journal of Fluid Mechanics</i> , 2013 , 733,	3.7	15
14	Translational and rotational motion of disk-shaped Marangoni surfers. <i>Physics of Fluids</i> , 2019 , 31, 102101	4.4	12
13	Evaporation of a sessile droplet on a slope. <i>Scientific Reports</i> , 2019 , 9, 19803	4.9	12
12	Reciprocal theorem for convective heat and mass transfer from a particle in Stokes and potential flows. <i>Physical Review Fluids</i> , 2016 , 1,	2.8	10
11	Forward, reverse, and no motion of Marangoni surfers under confinement. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	8
10	Optimal viscous damping of vibrating porous cylinders. <i>Journal of Fluid Mechanics</i> , 2019 , 874, 339-358	3.7	4
9	Conduction heat transfer from oblate spheroids and bispheres. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 139, 115-120	4.9	3
8	Evaporation of multiple droplets. <i>Journal of Fluid Mechanics</i> , 2021 , 927,	3.7	2
7	Oscillatory Marangoni flows with inertia. <i>Journal of Fluid Mechanics</i> , 2016 , 803, 94-118	3.7	1
6	Efficient Flapping Flight Using Flexible Wings Oscillating at Resonance. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2012 , 235-245	0.5	1
5	Forced Convection Heat Transfer From a Particle at Small and Large Peclet Numbers. <i>Journal of Heat Transfer</i> , 2020 , 142,	1.8	1
4	Collective Sensitivity of Artificial Hair Sensors to Flow Direction. <i>AIAA Journal</i> , 2021 , 59, 1135-1141	2.1	1
3	A remotely controlled Marangoni surfer. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	1
2	Free-Decay Heave Motion of a Spherical Buoy. <i>Fluids</i> , 2022 , 7, 188	1.6	0
1	Heat transfer from a particle in laminar flows of a variable thermal conductivity fluid. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121067	4.9	