Marcos Marcos

List of Publications by Year
in descending order

42 papers	1,050 citations	516215 16 h-index	414034 32 g-index
43 all docs	43 docs citations	43 times ranked	1264 citing authors

#	Article	IF	Citations
1	Bacterial rheotaxis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4780-4785.	3.3	225
2	Separation of Microscale Chiral Objects by Shear Flow. Physical Review Letters, 2009, 102, 158103.	2.9	95
3	The wiggling trajectories of bacteria. Journal of Fluid Mechanics, 2012, 705, 58-76.	1.4	94
4	Resource Patch Formation and Exploitation throughout the Marine Microbial Food Web. American Naturalist, 2009, 173, E15-E29.	1.0	71
5	Enhancing malaria diagnosis through microfluidic cell enrichment and magnetic resonance relaxometry detection. Scientific Reports, 2015, 5, 11425.	1.6	63
6	Frequency-dependent laminar electroosmotic flow in a closed-end rectangular microchannel. Journal of Colloid and Interface Science, 2004, 275, 679-698.	5.0	51
7	A microfluidic chemotaxis assay to study microbial behavior in diffusing nutrient patches. Limnology and Oceanography: Methods, 2008, 6, 477-488.	1.0	44
8	Microbial alignment in flow changes ocean light climate. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3860-3864.	3.3	42
9	Dynamic aspects of electroosmotic flow in rectangular microchannels. International Journal of Engineering Science, 2004, 42, 1459-1481.	2.7	41
10	Microorganisms in vortices: a microfluidic setup. Limnology and Oceanography: Methods, 2006, 4, 392-398.	1.0	37
11	Chaotic micromixer utilizing electro-osmosis and induced charge electro-osmosis in eccentric annulus. Physics of Fluids, 2016, 28, .	1.6	32
12	Analysis of a swimming sperm in a shear flow. Microfluidics and Nanofluidics, 2014, 17, 809-819.	1.0	27
13	Deterministic sequential isolation of floating cancer cells under continuous flow. Lab on A Chip, 2016, 16, 2813-2819.	3.1	27
14	Developing electro-osmotic flow in closed-end micro-channels. International Journal of Engineering Science, 2005, 43, 1349-1362.	2.7	24
15	Frequency-dependent velocity and vorticity fields of electro-osmotic flow in a closed-end cylindrical microchannel. Journal of Micromechanics and Microengineering, 2005, 15, 301-312.	1.5	22
16	The study of spermatozoa and sorting in relation to human reproduction. Microfluidics and Nanofluidics, 2015, 18, 755-774.	1.0	17
17	Pair interactions in induced charge electrophoresis of conducting cylinders. International Journal of Heat and Mass Transfer, 2015, 88, 674-683.	2.5	15
18	Effect of dielectrophoresis on spermatozoa. Microfluidics and Nanofluidics, 2014, 17, 613-622.	1.0	13

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19	Theoretical modeling in microscale locomotion. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	13
20	Dielectrophoretic trapping and impedance detection of Escherichia coli, Vibrio cholera, and Enterococci bacteria. Biomicrofluidics, 2020, 14, 054105.	1.2	12
21	Dielectrophoresis of spermatozoa in viscoelastic medium. Electrophoresis, 2015, 36, 1514-1521.	1.3	10
22	Lab-on-chip microfluidic impedance measurement for laminar flow ratio sensing and differential conductivity difference detection. Applied Physics Letters, 2017, 110, .	1.5	10
23	Permeability and viscoelastic fracture of a model tumor under interstitial flow. Soft Matter, 2018, 14, 6386-6392.	1.2	10
24	Antibody-coated microstructures for selective isolation of immune cells in blood. Lab on A Chip, 2020, 20, 1072-1082.	3.1	9
25	Bacteria and cancer cell pearl chain under dielectrophoresis. Electrophoresis, 2021, 42, 1070-1078.	1.3	8
26	Supervised Learning to Predict Sperm Sorting by Magnetophoresis. Magnetochemistry, 2018, 4, 31.	1.0	6
27	Traction reveals mechanisms of wall effects for microswimmers near boundaries. Physical Review E, 2017, 95, 033105.	0.8	5
28	Slow viscous flow around two particles in a cylinder. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	5
29	How the bending mechanics of setae modulate hydrodynamic sensing in copepods. Limnology and Oceanography, 2020, 65, 749-761.	1.6	5
30	Slow viscous flow of two porous spherical particles translating along the axis of a cylinder. Journal of Fluid Mechanics, 2019, 861, 643-678.	1.4	4
31	Sorting spermatozoa by morphology using magnetophoresis. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	3
32	Chemotactic Response of Marine Micro-Organisms to Micro-Scale Nutrient Layers. Journal of Visualized Experiments, 2007, , 203.	0.2	2
33	Modelling bacterial chemotaxis for indirectly binding attractants. Journal of Theoretical Biology, 2020, 487, 110120.	0.8	2
34	Creeping flow of a sphere nearby a cylinder. Applied Mathematical Modelling, 2020, 79, 18-30.	2.2	2
35	Can the mechanoreceptional setae of a feedingâ€current feeding copepod detect hydrodynamic disturbance induced by entrained freeâ€floating prey?. Limnology and Oceanography, 2021, 66, 4096.	1.6	2
36	Effect of dielectrophoretic force on swimming bacteria. Electrophoresis, 2015, 36, 1485-1492.	1.3	1

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37	Quantitative characterization of viscoelastic fracture induced by time-dependent intratumoral pressure in a 3D model tumor. Biomicrofluidics, 2019, 13, 054107.	1.2	1
38	Interaction between two spheres under a uniform electric field in a porous medium. Chemical Engineering Science, 2021, 231, 116254.	1.9	0
39	Frequency Dependent Velocity and Vorticity Fields of Electroosmotic Flow in a Closed-End Rectangular Microchannel. , 2004, , .		0
40	10.1063/1.4952971.1. , 2016, , .		0
41	Bending stiffness characterization of Bacillus subtilisâ€™ flagellar filament. Biophysical Journal, 2022, , .	0.2	0
42	A microfluidic approach to investigate the effects of bacteria deposition in porous media containing randomly packed microbeads via real-time pressure measurement. Microfluidics and Nanofluidics, 2022, 26, .	1.0	0