GastÃ³n L MiÃ±o

List of Publications by Year
in descending order

25 papers	2,928 citations	471509 17 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	3416 citing authors

#	Article	IF	Citations
1	The structural role of bacterial eDNA in the formation of biofilm streamers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2113723119.	7.1	30
2	A microfluidic platform for characterizing the structure and rheology of biofilm streamers. Soft Matter, 2022, 18, 3878-3890.	2.7	10
3	Competition between growth and shear stress drives intermittency in preferential flow paths in porous medium biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
4	Spatio-temporal analysis of collective migration in vivo by particle image velocimetry. Physical Biology, 2021, 18, 066008.	1.8	3
5	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces. Nature Communications, 2020, 11, 2851.	12.8	66
6	Hitting the wall: Human sperm velocity recovery under ultra-confined conditions. Biomicrofluidics, 2020, 14, 024108.	2.4	6
7	10.1063/1.5143194.1. , 2020, , .		0
8	Solitary choanoflagellate dynamics and microconfined directed transport. Journal Physics D: Applied Physics, 2020, 53, 505403.	2.8	2
9	Motility drives bacterial encounter with particles responsible for carbon export throughout the ocean. Limnology and Oceanography Letters, 2019, 4, 113-118.	3.9	33
10	Colloid Transport in Porous Media: A Review of Classical Mechanisms and Emerging Topics. Transport in Porous Media, 2019, 130, 129-156.	2.6	26
11	<i>E coli</i> Accumulation behind an Obstacle. Advances in Microbiology, 2018, 08, 451-464.	0.6	21
12	Deployable micro-traps to sequester motile bacteria. Scientific Reports, 2017, 7, 45897.	3.3	30
13	Finding patches in a heterogeneous aquatic environment: pHâ€taxis by the dispersal stage of choanoflagellates. Limnology and Oceanography Letters, 2017, 2, 37-46.	3.9	19
14	Chemotaxis toward phytoplankton drives organic matter partitioning among marine bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1576-1581.	7.1	220
15	Shear-induced orientational dynamics and spatial heterogeneity in suspensions of motile phytoplankton. Journal of the Royal Society Interface, 2015, 12, 20150791.	3.4	48
16	Bacterial transport suppressed by fluid shear. Nature Physics, 2014, 10, 212-217.	16.7	310
17	Vortical ciliary flows actively enhance mass transport in reef corals. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13391-13396.	7.1	173
18	A bacterial pathogen uses dimethylsulfoniopropionate as a cue to target heat-stressed corals. ISME Journal, 2014, 8, 999-1007.	9.8	180

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19	Capillary Interception of Floating Particles by Surface-Piercing Vegetation. Physical Review Letters, 2013, 111, 164501.	7.8	34
20	Ecology and Physics of Bacterial Chemotaxis in the Ocean. Microbiology and Molecular Biology Reviews, 2012, 76, 792-812.	6.6	230
21	Marine Microbes See a Sea of Gradients. Science, 2012, 338, 628-633.	12.6	541
22	Trade-Offs of Chemotactic Foraging in Turbulent Water. Science, 2012, 338, 675-679.	12.6	174
23	Fluid Mechanics of Planktonic Microorganisms. Annual Review of Fluid Mechanics, 2012, 44, 373-400.	25.0	409
24	Rapid chemotactic response enables marine bacteria to exploit ephemeral microscale nutrient patches. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4209-4214.	7.1	348
25	Transport of Pseudomonas aeruginosa in Polymer Solutions. Frontiers in Physics, 0, 10, .	2.1	0