

Gastón L Miño

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5035621/publications.pdf>

Version: 2024-02-01

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	Marine Microbes See a Sea of Gradients. <i>Science</i> , 2012, 338, 628-633.	12.6	541
2	Fluid Mechanics of Planktonic Microorganisms. <i>Annual Review of Fluid Mechanics</i> , 2012, 44, 373-400.	25.0	409
3	Rapid chemotactic response enables marine bacteria to exploit ephemeral microscale nutrient patches. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4209-4214.	7.1	348
4	Bacterial transport suppressed by fluid shear. <i>Nature Physics</i> , 2014, 10, 212-217.	16.7	310
5	Ecology and Physics of Bacterial Chemotaxis in the Ocean. <i>Microbiology and Molecular Biology Reviews</i> , 2012, 76, 792-812.	6.6	230
6	Chemotaxis toward phytoplankton drives organic matter partitioning among marine bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1576-1581.	7.1	220
7	A bacterial pathogen uses dimethylsulfoniopropionate as a cue to target heat-stressed corals. <i>ISME Journal</i> , 2014, 8, 999-1007.	9.8	180
8	Trade-Offs of Chemotactic Foraging in Turbulent Water. <i>Science</i> , 2012, 338, 675-679.	12.6	174
9	Vortical ciliary flows actively enhance mass transport in reef corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13391-13396.	7.1	173
10	The effect of flow on swimming bacteria controls the initial colonization of curved surfaces. <i>Nature Communications</i> , 2020, 11, 2851.	12.8	66
11	Shear-induced orientational dynamics and spatial heterogeneity in suspensions of motile phytoplankton. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150791.	3.4	48
12	Capillary Interception of Floating Particles by Surface-Piercing Vegetation. <i>Physical Review Letters</i> , 2013, 111, 164501.	7.8	34
13	Motility drives bacterial encounter with particles responsible for carbon export throughout the ocean. <i>Limnology and Oceanography Letters</i> , 2019, 4, 113-118.	3.9	33
14	Deployable micro-traps to sequester motile bacteria. <i>Scientific Reports</i> , 2017, 7, 45897.	3.3	30
15	The structural role of bacterial eDNA in the formation of biofilm streamers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113723119.	7.1	30
16	Colloid Transport in Porous Media: A Review of Classical Mechanisms and Emerging Topics. <i>Transport in Porous Media</i> , 2019, 130, 129-156.	2.6	26
17	<i>E. coli</i> Accumulation behind an Obstacle. <i>Advances in Microbiology</i> , 2018, 08, 451-464.	0.6	21
18	Finding patches in a heterogeneous aquatic environment: pH<math>\chi</math>-axis by the dispersal stage of choanoflagellates. <i>Limnology and Oceanography Letters</i> , 2017, 2, 37-46.	3.9	19

#	ARTICLE	IF	CITATIONS
19	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
20	A microfluidic platform for characterizing the structure and rheology of biofilm streamers. Soft Matter, 2022, 18, 3878-3890.	2.7	10
21	Hitting the wall: Human sperm velocity recovery under ultra-confined conditions. Biomicrofluidics, 2020, 14, 024108.	2.4	6
22	Spatio-temporal analysis of collective migration in vivo by particle image velocimetry. Physical Biology, 2021, 18, 066008.	1.8	3
23	Solitary choanoflagellate dynamics and microconfined directed transport. Journal Physics D: Applied Physics, 2020, 53, 505403.	2.8	2
24	10.1063/1.5143194.1. , 2020, , .		0
25	Transport of Pseudomonas aeruginosa in Polymer Solutions. Frontiers in Physics, 0, 10, .	2.1	0