Vicente I Fernandez

List of Publications by Year
in descending order

27	1,417	430874 18	501196 28
papers	citations	h-index	g-index

30	30	30	2020
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	An automated Raman-based platform for the sorting of live cells by functional properties. Nature Microbiology, 2019, 4, 1035-1048.	13.3	170
4	The role of microbial motility and chemotaxis in symbiosis. Nature Reviews Microbiology, 2019, 17, 284-294.	28.6	160
5	Bacterial chemotaxis in a microfluidic T-maze reveals strong phenotypic heterogeneity in chemotactic sensitivity. Nature Communications, 2019, 10, 1877.	12.8	74
6	Lateral-Line-Inspired Sensor Arrays for Navigation and Object Identification. Marine Technology Society Journal, 2011, 45, 130-146.	0.4	70
7	Synthesis and degradation of FtsZ quantitatively predict the first cell division in starved bacteria. Molecular Systems Biology, 2018, 14, e8623.	7.2	66
8	A microfluidics-based in situ chemotaxis assay to study the behaviour of aquatic microbial communities. Nature Microbiology, 2017, 2, 1344-1349.	13.3	60
9	Chemotaxis shapes the microscale organization of the oceanâ€™s microbiome. Nature, 2022, 605, 132-138.	27.8	51
10	A distinct growth physiology enhances bacterial growth under rapid nutrient fluctuations. Nature Communications, 2021, 12, 3662.	12.8	40
11	A Foraging Mandala for Aquatic Microorganisms. ISME Journal, 2019, 13, 563-575.	9.8	35
12	Microbial Morphology and Motility as Biosignatures for Outer Planet Missions. Astrobiology, 2016, 16, 755-774.	3.0	34
13	Sinking enhances the degradation of organic particles by marine bacteria. Nature Geoscience, 2021, 14, 775-780.	12.9	34
14	Motility drives bacterial encounter with particles responsible for carbon export throughout the ocean. Limnology and Oceanography Letters, 2019, 4, 113-118.	3.9	33
15	PhenoChip: A single-cell phenomic platform for high-throughput photophysiological analyses of microalgae. Science Advances, 2020, 6, .	10.3	32
16	Single-cell bacterial transcription measurements reveal the importance of dimethylsulfoniopropionate (DMSP) hotspots in ocean sulfur cycling. Nature Communications, 2020, 11, 1942.	12.8	30
17	Logarithmic sensing in Bacillus subtilis aerotaxis. Npj Systems Biology and Applications, 2017, 3, 16036.	3.0	29
18	Encounter rates between bacteria and small sinking particles. New Journal of Physics, 2020, 22, 043016.	2.9	22

#	ARTICLE	IF	CITATIONS
19	Mechanistic model of nutrient uptake explains dichotomy between marine oligotrophic and copiotrophic bacteria. PLoS Computational Biology, 2021, 17, e1009023.	3.2	20
20	Segmentation and the Entropic Elasticity of Modular Proteins. Journal of Physical Chemistry Letters, 2018, 9, 4707-4713.	4.6	19
21	Coral mucus rapidly induces chemokinesis and genome-wide transcriptional shifts toward early pathogenesis in a bacterial coral pathogen. ISME Journal, 2021, 15, 3668-3682.	9.8	14
22	Aging a little: On the optimality of limited senescence in Escherichia coli. Journal of Theoretical Biology, 2020, 502, 110331.	1.7	5
23	Extended Kalman filter estimates the contour length of a protein in single molecule atomic force microscopy experiments. Review of Scientific Instruments, 2009, 80, 113104.	1.3	4
24	An interdisciplinary and application-oriented approach to teach microfluidics. Biomicrofluidics, 2021, 15, 014104.	2.4	3
25	Bacterial maze runners reveal hidden diversity in chemotactic performance. Microbial Cell, 2019, 6, 370-372.	3.2	2
26	Modus vivendi. Nature Physics, 2017, 13, 326-327.	16.7	1
27	Bacterial chemotaxis to saccharides is governed byÂa trade-off between sensing and uptake. Biophysical Journal, 2022, 121, 2046-2059.	0.5	1