

Vicente I Fernandez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/577147/publications.pdf>

Version: 2024-02-01

27
papers

1,417
citations

430874

18
h-index

501196

28
g-index

30
all docs

30
docs citations

30
times ranked

2020
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemotaxis shapes the microscale organization of the ocean's microbiome. <i>Nature</i> , 2022, 605, 132-138.	27.8	51
2	Bacterial chemotaxis to saccharides is governed by a trade-off between sensing and uptake. <i>Biophysical Journal</i> , 2022, 121, 2046-2059.	0.5	1
3	An interdisciplinary and application-oriented approach to teach microfluidics. <i>Biomicrofluidics</i> , 2021, 15, 014104.	2.4	3
4	Mechanistic model of nutrient uptake explains dichotomy between marine oligotrophic and copiotrophic bacteria. <i>PLoS Computational Biology</i> , 2021, 17, e1009023.	3.2	20
5	A distinct growth physiology enhances bacterial growth under rapid nutrient fluctuations. <i>Nature Communications</i> , 2021, 12, 3662.	12.8	40
6	Coral mucus rapidly induces chemokinesis and genome-wide transcriptional shifts toward early pathogenesis in a bacterial coral pathogen. <i>ISME Journal</i> , 2021, 15, 3668-3682.	9.8	14
7	Sinking enhances the degradation of organic particles by marine bacteria. <i>Nature Geoscience</i> , 2021, 14, 775-780.	12.9	34
8	PhenoChip: A single-cell phenomic platform for high-throughput photophysiological analyses of microalgae. <i>Science Advances</i> , 2020, 6, .	10.3	32
9	Single-cell bacterial transcription measurements reveal the importance of dimethylsulfoniopropionate (DMSP) hotspots in ocean sulfur cycling. <i>Nature Communications</i> , 2020, 11, 1942.	12.8	30
10	Encounter rates between bacteria and small sinking particles. <i>New Journal of Physics</i> , 2020, 22, 043016.	2.9	22
11	Aging a little: On the optimality of limited senescence in <i>Escherichia coli</i> . <i>Journal of Theoretical Biology</i> , 2020, 502, 110331.	1.7	5
12	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
13	Bacterial chemotaxis in a microfluidic T-maze reveals strong phenotypic heterogeneity in chemotactic sensitivity. <i>Nature Communications</i> , 2019, 10, 1877.	12.8	74
14	An automated Raman-based platform for the sorting of live cells by functional properties. <i>Nature Microbiology</i> , 2019, 4, 1035-1048.	13.3	170
15	The role of microbial motility and chemotaxis in symbiosis. <i>Nature Reviews Microbiology</i> , 2019, 17, 284-294.	28.6	160
16	A Foraging Mandala for Aquatic Microorganisms. <i>ISME Journal</i> , 2019, 13, 563-575.	9.8	35
17	Bacterial maze runners reveal hidden diversity in chemotactic performance. <i>Microbial Cell</i> , 2019, 6, 370-372.	3.2	2
18	Synthesis and degradation of FtsZ quantitatively predict the first cell division in starved bacteria. <i>Molecular Systems Biology</i> , 2018, 14, e8623.	7.2	66

#	ARTICLE	IF	CITATIONS
19	Segmentation and the Entropic Elasticity of Modular Proteins. Journal of Physical Chemistry Letters, 2018, 9, 4707-4713.	4.6	19
20	Modus vivendi. Nature Physics, 2017, 13, 326-327.	16.7	1
21	Logarithmic sensing in Bacillus subtilis aerotaxis. Npj Systems Biology and Applications, 2017, 3, 16036.	3.0	29
22	A microfluidics-based in situ chemotaxis assay to study the behaviour of aquatic microbial communities. Nature Microbiology, 2017, 2, 1344-1349.	13.3	60
23	Microbial Morphology and Motility as Biosignatures for Outer Planet Missions. Astrobiology, 2016, 16, 755-774.	3.0	34
24	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
25	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
26	Lateral-Line-Inspired Sensor Arrays for Navigation and Object Identification. Marine Technology Society Journal, 2011, 45, 130-146.	0.4	70
27	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