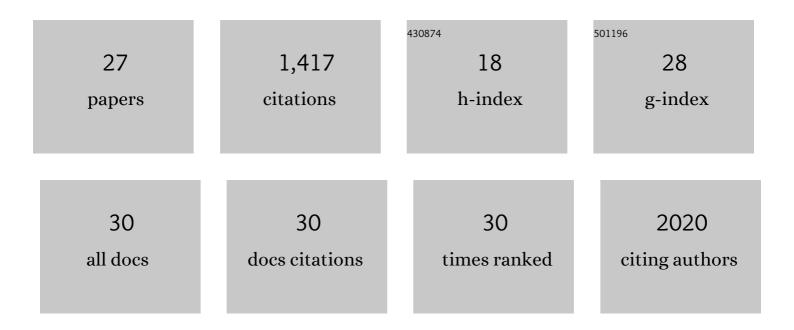
Vicente I Fernandez

List of Publications by Year in descending order

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| # | 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 ocean'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 |

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| # | 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 |