XosÃ© Anxelu G MorÃ¡n

List of Publications by Year
in descending order

120 papers	5,411 citations	81743 39 h-index	106150 65 g-index
124 all docs	124 docs citations	124 times ranked	5176 citing authors

#	Article	IF	Citations
1	Increasing importance of small phytoplankton in a warmer ocean. Global Change Biology, 2010, 16, 1137-1144.	4.2	471
2	Microbial growth in the polar oceans â€" role of temperature and potential impact of climate change. Nature Reviews Microbiology, 2009, 7, 451-459.	13.6	297
3	RESOURCE LIMITATION OF BACTERIAL PRODUCTION DISTORTS THE TEMPERATURE DEPENDENCE OF OCEANIC CARBON CYCLING. Ecology, 2007, 88, 817-822.	1.5	194
4	Seasonal dynamics of picoplankton in shelf waters of the southern Bay of Biscay. Aquatic Microbial Ecology, 2006, 42, 159-174.	0.9	164
5	Dissolved Primary Production and the Strength of Phytoplankton? Bacterioplankton Coupling in Contrasting Marine Regions. Microbial Ecology, 2002, 44, 217-223.	1.4	151
6	Degree of oligotrophy controls the response of microbial plankton to Saharan dust. Limnology and Oceanography, 2010, 55, 2339-2352.	1.6	134
7	Effect of a simulated oil spill on natural assemblages of marine phytoplankton enclosed in microcosms. Estuarine, Coastal and Shelf Science, 2009, 83, 265-276.	0.9	114
8	Unveiling the role and life strategies of viruses from the surface to the dark ocean. Science Advances, 2017, 3, e1602565.	4.7	113
9	Effects of filtration on bacterial activity and picoplankton community structure as assessed by flow cytometry. Aquatic Microbial Ecology, 1999, 16, 251-264.	0.9	112
10	The hidden seasonality of the rare biosphere in coastal marine bacterioplankton. Environmental Microbiology, 2015, 17, 3766-3780.	1.8	109
11	Phytoplankton size distribution and growth rates in the Alboran Sea (SW Mediterranean): short term variability related to mesoscale hydrodynamics. Journal of Plankton Research, 2002, 24, 1019-1033.	0.8	99
12	Physical-biological coupling in the Algerian Basin (SW Mediterranean): Influence of mesoscale instabilities on the biomass and production of phytoplankton and bacterioplankton. Deep-Sea Research Part I: Oceanographic Research Papers, 2001, 48, 405-437.	0.6	98
13	Vertical distribution of phytoplankton biomass, production and growth in the Atlantic subtropical gyres. Deep-Sea Research Part I: Oceanographic Research Papers, 2006, 53, 1616-1634.	0.6	95
14	Short-term variability of photosynthetic parameters and particulate and dissolved primary production in the Alboran Sea (SW Mediterranean). Marine Ecology - Progress Series, 2001, 212, 53-67.	0.9	92
15	Decrease in the Autotrophic-to-Heterotrophic Biomass Ratio of Picoplankton in Oligotrophic Marine Waters Due to Bottle Enclosure. Applied and Environmental Microbiology, 2011, 77, 5739-5746.	1.4	84
16	More, smaller bacteria in response to ocean's warming?. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150371.	1.2	84
17	Towards a better understanding of microbial carbon flux in the sea*. Aquatic Microbial Ecology, 2008, 53, 21-38.	0.9	81
18	Flow Cytometric Determination of Microbial Abundances and Its Use to Obtain Indices of Community Structure and Relative Activity. Springer Protocols, 2015, , 159-187.	0.1	81

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19	A comparison between glass fiber and membrane filters for the estimation of phytoplankton POC and DOC production. Marine Ecology - Progress Series, 1999, 187, 31-41.	0.9	78
20	Assessing the relevance of nucleic acid content as an indicator of marine bacterial activity. Aquatic Microbial Ecology, 2007, 46, 141-152.	0.9	67
21	Dissolved and particulate primary production and bacterial production in offshore Antarctic waters during austral summer: coupled or uncoupled?. Marine Ecology - Progress Series, 2001, 222, 25-39.	0.9	66
22	Distribution of phytoplankton groups within the deep chlorophyll maximum. Limnology and Oceanography, 2017, 62, 665-685.	1.6	64
23	Size-fractionated primary production, bacterial production and net community production in subtropical and tropical domains of the oligotrophic NE Atlantic in autumn. Marine Ecology - Progress Series, 2004, 274, 17-29.	0.9	61
24	Elevated temperature increases carbon and nitrogen fluxes between phytoplankton and heterotrophic bacteria through physical attachment. ISME Journal, 2017, 11, 641-650.	4.4	60
25	Seasonal patterns in phytoplankton photosynthetic parameters and primary production at a coastal NW Mediterranean site. Scientia Marina, 2016, 80, 63-77.	0.3	57
26	Response of Southern Ocean phytoplankton and bacterioplankton production to shortâ€term experimental warming. Limnology and Oceanography, 2006, 51, 1791-1800.	1.6	56
27	Phytoplanktonic DOC and POC production in the Bransfield and Gerlache Straits as derived from kinetic experiments of 14C incorporation. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 769-786.	0.6	54
28	Seasonality of picophytoplankton chlorophyll a and biomass in the central Cantabrian Sea, southern Bay of Biscay. Journal of Marine Systems, 2008, 72, 271-281.	0.9	53
29	Drivers of fluorescent dissolved organic matter in the global epipelagic ocean. Limnology and Oceanography, 2016, 61, 1101-1119.	1.6	53
30	Past and Future Grand Challenges in Marine Ecosystem Ecology. Frontiers in Marine Science, 2020, 7, .	1.2	52
31	Annual cycle of picophytoplankton photosynthesis and growth rates in a temperate coastal ecosystem: a major contribution to carbon fluxes. Aquatic Microbial Ecology, 2007, 49, 267-279.	0.9	51
32	Temperature regulation of marine heterotrophic prokaryotes increases latitudinally as a breach between bottomâ€up and topâ€down controls. Global Change Biology, 2017, 23, 3956-3964.	4.2	48
33	Molecular analyses of protists in long-term observation programmesâ€”current status and future perspectives. Journal of Plankton Research, 2018, 40, 519-536.	0.8	47
34	Estimating the carbon flux through main phytoplankton groups in the northwestern Mediterranean. Limnology and Oceanography, 2005, 50, 1447-1458.	1.6	46
35	Seasonality in molecular and cytometric diversity of marine bacterioplankton: the reâ€shuffling of bacterial taxa by vertical mixing. Environmental Microbiology, 2015, 17, 4133-4142.	1.8	45
36	Singleâ€cell physiological structure and growth rates of heterotrophic bacteria in a temperate estuary (Waquoit Bay, Massachusetts). Limnology and Oceanography, 2011, 56, 37-48.	1.6	44

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37	Temperature affects the sizeâ€structure of phytoplankton communities in the ocean. Limnology and Oceanography, 2015, 60, 733-738.	1.6	44
38	Factors controlling the community structure of picoplankton in contrasting marine environments. Biogeosciences, 2018, 15, 6199-6220.	1.3	44
39	Partitioning of phytoplanktonic organic carbon production and bacterial production along a coastal-offshore gradient in the NE Atlantic during different hydrographic regimes. Aquatic Microbial Ecology, 2002, 29, 239-252.	0.9	44
40	Potential causes for the unequal contribution of picophytoplankton to total biomass and productivity in oligotrophic waters. Marine Ecology - Progress Series, 2003, 254, 101-109.	0.9	44
41	The Mesopelagic Scattering Layer: A Hotspot for Heterotrophic Prokaryotes in the Red Sea Twilight Zone. Frontiers in Marine Science, 2018, 5, .	1.2	43
42	Differential responses of phytoplankton and heterotrophic bacteria to organic and inorganic nutrient additions in coastal waters off the NW Iberian Peninsula. Marine Ecology - Progress Series, 2010, 416, 17-33.	0.9	43
43	Nutrient supply controls picoplankton community structure during three contrasting seasons in the northwestern Mediterranean Sea. Marine Ecology - Progress Series, 2016, 543, 1-19.	0.9	41
44	Light Conditions Affect the Measurement of Oceanic Bacterial Production via Leucine Uptake. Applied and Environmental Microbiology, 2001, 67, 3795-3801.	1.4	40
45	Temperature dependences of growth rates and carrying capacities of marine bacteria depart from metabolic theoretical predictions. FEMS Microbiology Ecology, 2015, 91, fiv111.	1.3	40
46	Testing the metabolic theory of ecology with marine bacteria: different temperature sensitivity of major phylogenetic groups during the spring phytoplankton bloom. Environmental Microbiology, 2017, 19, 4493-4505.	1.8	39
47	Low Abundances but High Growth Rates of Coastal Heterotrophic Bacteria in the Red Sea. Frontiers in Microbiology, 2018, 9, 3244.	1.5	39
48	Major imprint of surface plankton on deep ocean prokaryotic structure and activity. Molecular Ecology, 2020, 29, 1820-1838.	2.0	39
49	Dissolved organic carbon contribution to oxygen respiration in the central Red Sea. Scientific Reports, 2019, 9, 4690.	1.6	38
50	Comparison of biomass and size spectra derived from optical plankton counter data and net samples: application to the assessment of mesoplankton distribution along the Northwest and North Iberian Shelf. ICES Journal of Marine Science, 2004, 61, 508-517.	1.2	37
51	Latitudinal distribution of microbial plankton abundance, production, and respiration in the Equatorial Atlantic in autumn 2000. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 861-880.	0.6	37
52	Depth Dependent Relationships between Temperature and Ocean Heterotrophic Prokaryotic Production. Frontiers in Marine Science, 2016, 3, .	1.2	37
53	Total and phytoplankton mediated bottom-up control of bacterioplankton change with temperature in NE Atlantic shelf waters. Aquatic Microbial Ecology, 2010, 58, 229-239.	0.9	37
54	Winter pelagic photosynthesis in the NW Mediterranean. Deep-Sea Research Part I: Oceanographic Research Papers, 2005, 52, 1806-1822.	0.6	36

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55	Empirical Leucine-to-Carbon Conversion Factors for Estimating Heterotrophic Bacterial Production: Seasonality and Predictability in a Temperate Coastal Ecosystem. Applied and Environmental Microbiology, 2009, 75, 3216-3221.	1.4	36
56	Decadal variability in chlorophyll and primary Âproduction off NW Spain. Climate Research, 2011, 48, 293-305.	0.4	33
57	Effects of inorganic and organic nutrient inputs on bacterioplankton community composition along a latitudinal transect in the Atlantic Ocean. Aquatic Microbial Ecology, 2010, 60, 299-313.	0.9	33
58	Picoplankton community structure along the northern Iberian continental margin in late winter-early spring. Journal of Plankton Research, 2004, 26, 1069-1081.	0.8	32
59	The Red Sea: Environmental Gradients Shape a Natural Laboratory in a Nascent Ocean. Coral Reefs of the World, 2019, , 1-10.	0.3	32
60	The role of seagrass vegetation and local environmental conditions in shaping benthic bacterial and macroinvertebrate communities in a tropical coastal lagoon. Scientific Reports, 2020, 10, 13550.	1.6	32
61	Single-cell vs. bulk activity properties of coastal bacterioplankton over an annual cycle in a temperate ecosystem. FEMS Microbiology Ecology, 2009, 67, 43-56.	1.3	31
62	Feeding and respiration by giant barrel sponges across a gradient of food abundance in the Red Sea. Limnology and Oceanography, 2019, 64, 1790-1801.	1.6	31
63	Response of heterotrophic and autotrophic microbial plankton to inorganic and organic inputs along a latitudinal transect in the Atlantic Ocean. Biogeosciences, 2010, 7, 1701-1713.	1.3	29
64	Warming and organic matter sources impact the proportion of dissolved to total activities in marine extracellular enzymatic rates. Biogeochemistry, 2017, 133, 307-316.	1.7	29
65	Heterotrophic bacterial responses to the winterâ€“spring phytoplankton bloom in open waters of the NW Mediterranean. Deep-Sea Research Part I: Oceanographic Research Papers, 2015, 96, 59-68.	0.6	28
66	Experimental Warming Decreases the Average Size and Nucleic Acid Content of Marine Bacterial Communities. Frontiers in Microbiology, 2016, 7, 730.	1.5	28
67	Temperature sensitivities of microbial plankton net growth rates are seasonally coherent and linked to nutrient availability. Environmental Microbiology, 2018, 20, 3798-3810.	1.8	28
68	Planktonic carbon budget in the eastern subtropical North Atlantic. Aquatic Microbial Ecology, 2007, 48, 261-275.	0.9	28
69	Vertical distribution of major photosynthetic picoeukaryotic groups in stratified marine waters. Environmental Microbiology, 2016, 18, 1578-1590.	1.8	26
70	Impact of grazing, resource availability and light on prokaryotic growth and diversity in the oligotrophic surface global ocean. Environmental Microbiology, 2019, 21, 1482-1496.	1.8	24
71	Carbon fluxes through estuarine bacteria reflect coupling with phytoplankton. Marine Ecology - Progress Series, 2013, 489, 75-85.	0.9	24
72	Low activity of lytic pelagiphages in coastal marine waters. ISME Journal, 2018, 12, 2100-2102.	4.4	23

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73	Factors Regulating the Relationship Between Total and Size-Fractionated Chlorophyll-a in Coastal Waters of the Red Sea. Frontiers in Microbiology, 2019, 10, 1964.	1.5	23
74	Relationships Between Coastal Bacterioplankton Growth Rates and Biomass Production: Comparison of Leucine and Thymidine Uptake with Single-Cell Physiological Characteristics. Microbial Ecology, 2011, 61, 328-341.	1.4	22
75	Diel dynamics and coupling of heterotrophic prokaryotes and dissolved organic matter in epipelagic and mesopelagic waters of the central Red Sea. Environmental Microbiology, 2018, 20, 2990-3000.	1.8	22
76	Changes in bacterial activity and community composition caused by exposure to a simulated oil spill in microcosm and mesocosm experiments. Aquatic Microbial Ecology, 2010, 59, 169-183.	0.9	21
77	Dynamics of heterotrophic bacteria in temperate coastal waters: similar net growth but different controls in low and high nucleic acid cells. Aquatic Microbial Ecology, 2012, 67, 211-223.	0.9	21
78	Photosynthetic parameters and primary production, with focus on large phytoplankton, in a temperate mid-shelf ecosystem. Estuarine, Coastal and Shelf Science, 2015, 154, 255-263.	0.9	21
79	Mismatch between community respiration and the contribution of heterotrophic bacteria in the NE Atlantic open ocean: What causes high respiration in oligotrophic waters?. Journal of Marine Research, 2007, 65, 545-560.	0.3	20
80	Changes in bacterioplankton and phytoplankton community composition in response to nutrient additions in coastal waters off the NW Iberian Peninsula. Marine Ecology - Progress Series, 2011, 426, 87-104.	0.9	20
81	Weekly variations of viruses and heterotrophic nanoflagellates and their potential impact on bacterioplankton in shallow waters of the central Red Sea. FEMS Microbiology Ecology, 2020, 96, .	1.3	19
82	Particulate and dissolved primary production by contrasting phytoplankton assemblages during mesocosm experiments in the Ria de Vigo (NW Spain). Journal of Plankton Research, 2010, 32, 1231-1240.	0.8	18
83	Seasonal variability and vertical distribution of autotrophic and heterotrophic picoplankton in the Central Red Sea. PeerJ, 2020, 8, e8612.	0.9	18
84	Annual cycles of bacterioplankton biomass and production suggest a general switch between temperature and resource control in temperate coastal ecosystems. Journal of Plankton Research, 2014, 36, 859-865.	0.8	17
85	Dissolved Organic Carbon Source Influences Tropical Coastal Heterotrophic Bacterioplankton Response to Experimental Warming. Frontiers in Microbiology, 2019, 10, 2807.	1.5	17
86	Responses of physiological groups of tropical heterotrophic bacteria to temperature and dissolved organic matter additions: food matters more than warming. Environmental Microbiology, 2020, 22, 1930-1943.	1.8	17
87	Size-fractionated phytoplankton biomass and production in the tropical Atlantic. Scientia Marina, 2010, 75, 379-389.	0.3	17
88	Factors affecting food preference in a widespread intertidal isopod. Journal of Experimental Marine Biology and Ecology, 1994, 182, 111-121.	0.7	16
89	Dissolved Organic Nitrogen Release and Bacterial Activity in the Upper Layers of the Atlantic Ocean. Microbial Ecology, 2006, 51, 487-500.	1.4	16
90	Independence of bacteria on phytoplankton? Insufficient support for Fouilland & Mostajir's (2010) suggested new concept. FEMS Microbiology Ecology, 2011, 78, 203-205.	1.3	15

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91	Sample Dilution and Bacterial Community Composition Influence Empirical Leucine-to-Carbon Conversion Factors in Surface Waters of the World's Oceans. Applied and Environmental Microbiology, 2015, 81, 8224-8232.	1.4	15
92	High summer temperatures amplify functional differences between coralâ€•and algaeâ€•dominated reef communities. Ecology, 2021, 102, e03226.	1.5	15
93	Heterotrophic bacterioplankton responses in coral- and algae-dominated Red Sea reefs show they might benefit from future regime shift. Science of the Total Environment, 2021, 751, 141628.	3.9	14
94	Large Plankton Enhance Heterotrophy Under Experimental Warming in a Temperate Coastal Ecosystem. Ecosystems, 2018, 21, 1139-1154.	1.6	13
95	Drivers of Microbial Carbon Fluxes Variability in Two Oligotrophic Mediterranean Coastal Systems. Scientific Reports, 2019, 9, 17669.	1.6	13
96	Temperature dependence of plankton community metabolism in the subtropical and tropical oceans. Global Biogeochemical Cycles, 2017, 31, 1141-1154.	1.9	12
97	Warming the phycosphere: Differential effect of temperature on the use of diatomâ€•derived carbon by two copiotrophic bacterial taxa. Environmental Microbiology, 2020, 22, 1381-1396.	1.8	12
98	Lagrangian study of microbial plankton respiration in the subtropical North Atlantic Ocean: bacterial contribution and short-term temporal variability. Aquatic Microbial Ecology, 2010, 61, 31-43.	0.9	12
99	Fine-scale metabolic discontinuity in a stratified prokaryote microbiome of a Red Sea deep halocline. ISME Journal, 2021, 15, 2351-2365.	4.4	11
100	Size-dependent photoacclimation of the phytoplankton community in temperate shelf waters (southern Bay of Biscay). Marine Ecology - Progress Series, 2016, 543, 73-87.	0.9	11
101	Automated clustering of heterotrophic bacterioplankton in flow cytometry data. Aquatic Microbial Ecology, 2014, 72, 175-185.	0.9	10
102	Seasonal dynamics of natural Ostreococcus viral infection at the single cell level using <scp>VirusFISH</scp>. Environmental Microbiology, 2021, 23, 3009-3019.	1.8	10
103	Characterization of light absorption by chromophoric dissolved organic matter (CDOM) in the upper layer of the Red Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 133, 72-84.	0.6	9
104	Transcriptional Patterns of Biogeochemically Relevant Marker Genes by Temperate Marine Bacteria. Frontiers in Microbiology, 2020, 11, 465.	1.5	9
105	Diel dynamics of dissolved organic matter and heterotrophic prokaryotes reveal enhanced growth at the ocean's mesopelagic fish layer during daytime. Science of the Total Environment, 2022, 804, 150098.	3.9	9
106	Stylophora under stress: A review of research trends and impacts of stressors on a model coral species. Science of the Total Environment, 2022, 816, 151639.	3.9	8
107	Dynamics of phytoplankton groups in three contrasting situations of the open NW Mediterranean Sea revealed by pigment, microscopy, and flow cytometry analyses. Progress in Oceanography, 2022, 201, 102737.	1.5	8
108	Nutrient pollution enhances productivity and framework dissolution in algae- but not in coral-dominated reef communities. Marine Pollution Bulletin, 2021, 168, 112444.	2.3	7

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109	Photoacclimation of picophytoplankton in the central Cantabrian Sea. Marine Ecology - Progress Series, 2013, 493, 43-56.	0.9	7
110	Differential response of microbial plankton to nutrient inputs in oligotrophic versus mesotrophic waters of the North Atlantic. Marine Biology Research, 2013, 9, 358-370.	0.3	6
111	Light supports cellâ€integrity and growth rates of taxonomically diverse coastal photoheterotrophs. Environmental Microbiology, 2020, 22, 3823-3837.	1.8	6
112	Localized effects of offshore aquaculture on water quality in a tropical sea. Marine Pollution Bulletin, 2021, 171, 112732.	2.3	5
113	Changes in Population Age-Structure Obscure the Temperature-Size Rule in Marine Cyanobacteria. Frontiers in Microbiology, 2020, 11, 2059.	1.5	4
114	Temperature Responses of Heterotrophic Bacteria in Co-culture With a Red Sea Synechococcus Strain. Frontiers in Microbiology, 2021, 12, 612732.	1.5	3
115	Heterotrophic Bacterioplankton Growth and Physiological Properties in Red Sea Tropical Shallow Ecosystems With Different Dissolved Organic Matter Sources. Frontiers in Microbiology, 2021, 12, 784325.	1.5	2
116	Picoplankton Diel Variability and Estimated Growth Rates in Epipelagic and Mesopelagic Waters of the Central Red Sea. Frontiers in Marine Science, 2021, 8, .	1.2	1
117	High-Frequency Variability of Bacterioplankton in Response to Environmental Drivers in Red Sea Coastal Waters. Frontiers in Microbiology, 2022, 13, 780530.	1.5	1
118	High Summer Temperatures Amplify Functional Differences Between Coralâ€•and Algaeâ€Dominated Reef Communities. Bulletin of the Ecological Society of America, 2021, 102, e01822.	0.2	0
119	Picophytoplankton intaglios in temperate waters of the southern Bay of Biscay. Aquatic Microbial Ecology, 2018, 82, 177-197.	0.9	0
120	Red Sea Fishes That Travel Into the Deep Ocean Daily. Frontiers for Young Minds, 0, 8, .	0.8	0