

Emilio Marañón

List of Publications by Year in descending order

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112
papers

7,674
citations

66234

42
h-index

58464

82
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144
all docs

144
docs citations

144
times ranked

6743
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of dust addition on the microbial food web under present and future conditions of pH and temperature. <i>Biogeosciences</i> , 2022, 19, 1303-1319.	1.3	5
2	Grazing Pressure Is Independent of Prey Size in a Generalist Herbivorous Protist: Insights from Experimental Temperature Gradients. <i>Microbial Ecology</i> , 2021, 81, 553-562.	1.4	3
3	Effect of temperature on the unimodal size scaling of phytoplankton growth. <i>Scientific Reports</i> , 2021, 11, 953.	1.6	8
4	Deep maxima of phytoplankton biomass, primary production and bacterial production in the Mediterranean Sea. <i>Biogeosciences</i> , 2021, 18, 1749-1767.	1.3	30
5	Temperature Fluctuation Attenuates the Effects of Warming in Estuarine Microbial Plankton Communities. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	9
6	Geographical and Seasonal Thermal Sensitivity of Grazing Pressure by Microzooplankton in Contrasting Marine Ecosystems. <i>Frontiers in Microbiology</i> , 2021, 12, 679863.	1.5	3
7	Magnitude of nitrate turbulent diffusion in contrasting marine environments. <i>Scientific Reports</i> , 2021, 11, 18804.	1.6	5
8	Temperature fluctuations in a warmer environment: impacts on microbial plankton. <i>Faculty Reviews</i> , 2021, 10, 9.	1.7	4
9	A Pseudo-Lagrangian Transformation to Study a Chlorophyll <i>a</i> Patch in the Ría de Vigo (NW Iberian) Tj ETQq1 1,0784314 rgBT /C 1,0	1.0	0
10	Impact of dust addition on the metabolism of Mediterranean plankton communities and carbon export under present and future conditions of pH and temperature. <i>Biogeosciences</i> , 2021, 18, 5423-5446.	1.3	14
11	Influence of atmospheric deposition on biogeochemical cycles in an oligotrophic ocean system. <i>Biogeosciences</i> , 2021, 18, 5699-5717.	1.3	11
12	Characterizing the surface microlayer in the Mediterranean Sea: trace metal concentrations and microbial plankton abundance. <i>Biogeosciences</i> , 2020, 17, 2349-2364.	1.3	23
13	Primary Production, an Index of Climate Change in the Ocean: Satellite-Based Estimates over Two Decades. <i>Remote Sensing</i> , 2020, 12, 826.	1.8	71
14	Effects of Temperature and Nutrient Supply on Resource Allocation, Photosynthetic Strategy, and Metabolic Rates of <i>Synechococcus</i> sp.. <i>Journal of Phycology</i> , 2020, 56, 818-829.	1.0	15
15	Intermediate-size cell dominance in the phytoplankton community of an eutrophic, estuarine ecosystem (Guadalhorce River, Southern Spain). <i>Hydrobiologia</i> , 2020, 847, 2241-2254.	1.0	7
16	Reconciling models of primary production and photoacclimation [Invited]. <i>Applied Optics</i> , 2020, 59, C100.	0.9	43
17	Spatial and temporal patterns of physical environment and phytoplankton at Paraje Natural of the Guadalhorce River mouth (Málaga). <i>Ecosistemas</i> , 2020, 29, .	0.2	0
18	Quantifying the overestimation of planktonic N ₂ fixation due to contamination of ¹⁵ N ₂ gas stocks. <i>Journal of Plankton Research</i> , 2019, 41, 567-570.	0.8	3

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19	The role of mixing in controlling resource availability and phytoplankton community composition. <i>Progress in Oceanography</i> , 2019, 178, 102181.	1.5	17
20	Temporal variability of diazotroph community composition in the upwelling region off NW Iberia. <i>Scientific Reports</i> , 2019, 9, 3737.	1.6	18
21	Phytoplankton Size Structure. , 2019, , 599-605.		4
22	Multi-model remote sensing assessment of primary production in the subtropical gyres. <i>Journal of Marine Systems</i> , 2019, 196, 97-106.	0.9	13
23	Generalized size scaling of metabolic rates based on single-cell measurements with freshwater phytoplankton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17323-17329.	3.3	16
24	Nutrient limitation suppresses the temperature dependence of phytoplankton metabolic rates. <i>ISME Journal</i> , 2018, 12, 1836-1845.	4.4	122
25	Factors controlling the community structure of picoplankton in contrasting marine environments. <i>Biogeosciences</i> , 2018, 15, 6199-6220.	1.3	44
26	Phytoplankton size diversity and ecosystem function relationships across oceanic regions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180621.	1.2	38
27	A global compilation of coccolithophore calcification rates. <i>Earth System Science Data</i> , 2018, 10, 1859-1876.	3.7	18
28	Role of internal waves on mixing, nutrient supply and phytoplankton community structure during spring and neap tides in the upwelling ecosystem of R�a de Vigo (NW Iberian Peninsula). <i>Limnology and Oceanography</i> , 2017, 62, 1014-1030.	1.6	43
29	The Size Dependence of Phytoplankton Growth Rates: A Trade-Off between Nutrient Uptake and Metabolism. <i>American Naturalist</i> , 2017, 189, 170-177.	1.0	46
30	Biological N ₂ Fixation in the Upwelling Region off NW Iberia: Magnitude, Relevance, and Players. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	31
31	Intercomparison of Ocean Color Algorithms for Picophytoplankton Carbon in the Ocean. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	19
32	Marine Primary Productivity Is Driven by a Selection Effect. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	28
33	Coccolithophore calcification is independent of carbonate chemistry in the tropical ocean. <i>Limnology and Oceanography</i> , 2016, 61, 1345-1357.	1.6	19
34	Optimality-based <i>Trichodesmium</i> diazotrophy in the North Atlantic subtropical gyre. <i>Journal of Plankton Research</i> , 2016, 38, 946-963.	0.8	20
35	Mesopelagic respiration near the ESTOC (European Station for Time-Series in the Ocean, 15.5�W, 29.1�N) site inferred from a tracer conservation model. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016, 115, 63-73.	0.6	6
36	Nutrient supply controls picoplankton community structure during three contrasting seasons in the northwestern Mediterranean Sea. <i>Marine Ecology - Progress Series</i> , 2016, 543, 1-19.	0.9	41

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37	Surface distribution of dissolved trace metals in the oligotrophic ocean and their influence on phytoplankton biomass and productivity. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1763-1781.	1.9	44
38	Resource supply alone explains the variability of marine phytoplankton size structure. <i>Limnology and Oceanography</i> , 2015, 60, 1848-1854.	1.6	43
39	Importance of salt fingering for new nitrogen supply in the oligotrophic ocean. <i>Nature Communications</i> , 2015, 6, 8002.	5.8	42
40	Marine nano- and microphytoplankton diversity: redrawing global patterns from sampling-standardized data. <i>Global Ecology and Biogeography</i> , 2015, 24, 527-538.	2.7	21
41	Cell Size as a Key Determinant of Phytoplankton Metabolism and Community Structure. <i>Annual Review of Marine Science</i> , 2015, 7, 241-264.	5.1	358
42	Resource Supply Overrides Temperature as a Controlling Factor of Marine Phytoplankton Growth. <i>PLoS ONE</i> , 2014, 9, e99312.	1.1	93
43	Sampling the limits of species richness in marine phytoplankton communities. <i>Journal of Plankton Research</i> , 2014, 36, 1135-1139.	0.8	49
44	Conventional sampling methods severely underestimate phytoplankton species richness. <i>Journal of Plankton Research</i> , 2014, 36, 334-343.	0.8	65
45	Large-scale meridional and zonal variability in the nitrogen isotopic composition of plankton in the Atlantic Ocean. <i>Journal of Plankton Research</i> , 2014, 36, 1060-1073.	0.8	11
46	Photosynthesis and respiration in marine phytoplankton: Relationship with cell size, taxonomic affiliation, and growth phase. <i>Journal of Experimental Marine Biology and Ecology</i> , 2014, 457, 151-159.	0.7	63
47	Distinct patterns in the size-scaling of abundance and metabolism in coastal and open-ocean phytoplankton communities. <i>Marine Ecology - Progress Series</i> , 2014, 515, 61-71.	0.9	17
48	The significance of the episodic nature of atmospheric deposition to Low Nutrient Low Chlorophyll regions. <i>Global Biogeochemical Cycles</i> , 2014, 28, 1179-1198.	1.9	106
49	Ocean-Atmosphere Interactions of Particles. <i>Springer Earth System Sciences</i> , 2014, , 171-246.	0.1	29
50	Unimodal size scaling of phytoplankton growth and the size dependence of nutrient uptake and use. <i>Ecology Letters</i> , 2013, 16, 371-379.	3.0	297
51	Exudation of organic carbon by marine phytoplankton: dependence on taxon and cell size. <i>Marine Ecology - Progress Series</i> , 2013, 477, 53-60.	0.9	43
52	Differential response of microbial plankton to nutrient inputs in oligotrophic versus mesotrophic waters of the North Atlantic. <i>Marine Biology Research</i> , 2013, 9, 358-370.	0.3	6
53	Phytoplankton carbon and chlorophyll distributions in the equatorial Pacific and Atlantic: A basin-scale comparative study. <i>Journal of Marine Systems</i> , 2013, 109-110, 138-148.	0.9	23
54	Community N ₂ fixation and <i>Trichodesmium</i> spp. abundance along longitudinal gradients in the eastern subtropical North Atlantic. <i>ICES Journal of Marine Science</i> , 2013, 70, 223-231.	1.2	22

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55	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	5.4	1,627
56	Response of marine diatom communities to Late Quaternary abrupt climate changes. <i>Journal of Plankton Research</i> , 2013, 35, 12-21.	0.8	10
57	Species richness in marine phytoplankton communities is not correlated to ecosystem productivity. <i>Marine Ecology - Progress Series</i> , 2013, 488, 1-9.	0.9	28
58	Temperature, resources, and phytoplankton size structure in the ocean. <i>Limnology and Oceanography</i> , 2012, 57, 1266-1278.	1.6	170
59	Review of the Main Ecological Features Affecting Benthic Dinoflagellate Blooms. <i>Cryptogamie, Algologie</i> , 2012, 33, 171-179.	0.3	54
60	Regional differences in modelled net production and shallow remineralization in the North Atlantic subtropical gyre. <i>Biogeosciences</i> , 2012, 9, 2831-2846.	1.3	6
61	Isometric size-scaling of metabolic rate and the size abundance distribution of phytoplankton. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1815-1823.	1.2	78
62	Database of diazotrophs in global ocean: abundance, biomass and nitrogen fixation rates. <i>Earth System Science Data</i> , 2012, 4, 47-73.	3.7	315
63	Dissolved and particulate primary production along a longitudinal gradient in the Mediterranean Sea. <i>Biogeosciences</i> , 2011, 8, 815-825.	1.3	89
64	Importance of N ₂ fixation vs. nitrate eddy diffusion along a latitudinal transect in the Atlantic Ocean. <i>Limnology and Oceanography</i> , 2011, 56, 999-1007.	1.6	56
65	Effect of environmental forcing on the biomass, production and growth rate of size-fractionated phytoplankton in the central Atlantic Ocean. <i>Journal of Marine Systems</i> , 2011, 88, 203-213.	0.9	25
66	Decrease in the Autotrophic-to-Heterotrophic Biomass Ratio of Picoplankton in Oligotrophic Marine Waters Due to Bottle Enclosure. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5739-5746.	1.4	84
67	Response of heterotrophic and autotrophic microbial plankton to inorganic and organic inputs along a latitudinal transect in the Atlantic Ocean. <i>Biogeosciences</i> , 2010, 7, 1701-1713.	1.3	29
68	Latitudinal distribution of <i>Trichodesmium</i> spp. and N ₂ fixation in the Atlantic Ocean. <i>Biogeosciences</i> , 2010, 7, 3167-3176.	1.3	74
69	Particulate and dissolved primary production by contrasting phytoplankton assemblages during mesocosm experiments in the Ria de Vigo (NW Spain). <i>Journal of Plankton Research</i> , 2010, 32, 1231-1240.	0.8	18
70	Degree of oligotrophy controls the response of microbial plankton to Saharan dust. <i>Limnology and Oceanography</i> , 2010, 55, 2339-2352.	1.6	134
71	General patterns in the size scaling of phytoplankton abundance in coastal waters during a 10-year time series. <i>Journal of Plankton Research</i> , 2010, 32, 1-14.	0.8	50
72	Differential responses of phytoplankton and heterotrophic bacteria to organic and inorganic nutrient additions in coastal waters off the NW Iberian Peninsula. <i>Marine Ecology - Progress Series</i> , 2010, 416, 17-33.	0.9	43

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73	Size-fractionated phytoplankton biomass and production in the tropical Atlantic. <i>Scientia Marina</i> , 2010, 75, 379-389.	0.3	17
74	Phytoplankton Size Structure. , 2009, , 445-452.		16
75	Inter-specific scaling of phytoplankton production and cell size in the field. <i>Journal of Plankton Research</i> , 2009, 31, 929-929.	0.8	3
76	Resource levels, allometric scaling of population abundance, and marine phytoplankton diversity. <i>Limnology and Oceanography</i> , 2008, 53, 312-318.	1.6	26
77	Inter-specific scaling of phytoplankton production and cell size in the field. <i>Journal of Plankton Research</i> , 2007, 30, 157-163.	0.8	57
78	Scaling of phytoplankton photosynthesis and cell size in the ocean. <i>Limnology and Oceanography</i> , 2007, 52, 2190-2198.	1.6	114
79	Planktonic carbon budget in the eastern subtropical North Atlantic. <i>Aquatic Microbial Ecology</i> , 2007, 48, 261-275.	0.9	28
80	Vertical distribution of phytoplankton biomass, production and growth in the Atlantic subtropical gyres. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1616-1634.	0.6	95
81	Photosynthetic electron turnover in the tropical and subtropical Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1573-1592.	0.6	40
82	Invariant scaling of phytoplankton abundance and cell size in contrasting marine environments. <i>Ecology Letters</i> , 2006, 9, 1210-1215.	3.0	53
83	Phytoplankton size structure and primary production in a highly dynamic coastal ecosystem (RÃa de Tj ETQq1 1 0.784314 rgBT /Ove 67, 251-266.	0.9	138
84	Phytoplankton growth rates in the Atlantic subtropical gyres. <i>Limnology and Oceanography</i> , 2005, 50, 299-310.	1.6	84
85	Maximum photosynthetic efficiency of size-fractionated phytoplankton assessed by ¹⁴ C uptake and fast repetition rate fluorometry. <i>Limnology and Oceanography</i> , 2005, 50, 1438-1446.	1.6	70
86	Size dependence of coastal phytoplankton photosynthesis under vertical mixing conditions. <i>Journal of Plankton Research</i> , 2005, 27, 473-483.	0.8	23
87	Variability of chlorophyll and primary production in the Eastern North Atlantic Subtropical Gyre: potential factors affecting phytoplankton activity. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 569-588.	0.6	70
88	Latitudinal distribution of microbial plankton abundance, production, and respiration in the Equatorial Atlantic in autumn 2000. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 861-880.	0.6	37
89	Large-sized phytoplankton sustain higher carbon-specific photosynthesis than smaller cells in a coastal eutrophic ecosystem. <i>Marine Ecology - Progress Series</i> , 2005, 297, 51-60.	0.9	98
90	Continuity in the photosynthetic production of dissolved organic carbon from eutrophic to oligotrophic waters. <i>Marine Ecology - Progress Series</i> , 2005, 299, 7-17.	0.9	56

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91	Significance and mechanisms of photosynthetic production of dissolved organic carbon in a coastal eutrophic ecosystem. <i>Limnology and Oceanography</i> , 2004, 49, 1652-1666.	1.6	125
92	Seasonal and interannual variability of chlorophyll a and primary production in the Equatorial Atlantic: in situ and remote sensing observations. <i>Journal of Plankton Research</i> , 2004, 27, 189-197.	0.8	52
93	Photosynthate allocation in a temperate sea over an annual cycle: the relationship between protein synthesis and phytoplankton physiological state. <i>Journal of Sea Research</i> , 2003, 50, 285-299.	0.6	34
94	Large-scale latitudinal distribution of <i>Trichodesmium</i> spp. in the Atlantic Ocean. <i>Journal of Plankton Research</i> , 2003, 25, 405-416.	0.8	137
95	Potential causes for the unequal contribution of picophytoplankton to total biomass and productivity in oligotrophic waters. <i>Marine Ecology - Progress Series</i> , 2003, 254, 101-109.	0.9	44
96	High variability of primary production in oligotrophic waters of the Atlantic Ocean: uncoupling from phytoplankton biomass and size structure. <i>Marine Ecology - Progress Series</i> , 2003, 257, 1-11.	0.9	136
97	Isotopic composition of suspended particulate nitrogen ($\delta^{15}N_{sus}$) in surface waters of the Atlantic Ocean from 50°N to 50°S. <i>Global Biogeochemical Cycles</i> , 2002, 16, 7-17-9.	1.9	48
98	Photoacclimation and nutrient-based model of light-saturated photosynthesis for quantifying oceanic primary production. <i>Marine Ecology - Progress Series</i> , 2002, 228, 103-117.	0.9	148
99	Large-scale variability of planktonic net community metabolism in the Atlantic Ocean: importance of temporal changes in oligotrophic subtropical waters. <i>Marine Ecology - Progress Series</i> , 2002, 233, 21-30.	0.9	41
100	Patterns of phytoplankton size structure and productivity in contrasting open-ocean environments. <i>Marine Ecology - Progress Series</i> , 2001, 216, 43-56.	0.9	224
101	Basin-scale variability of phytoplankton biomass, production and growth in the Atlantic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000, 47, 825-857.	0.6	193
102	Photosynthetic parameters of phytoplankton from 50°N to 50°S in the Atlantic Ocean. <i>Marine Ecology - Progress Series</i> , 1999, 176, 191-203.	0.9	75
103	The hydrography and biology of a bloom of the coccolithophorid <i>Emiliana huxleyi</i> in the northern North Sea. <i>Journal of Sea Research</i> , 1998, 39, 255-266.	0.6	39
104	Primary production, calcification and macromolecular synthesis in a bloom of the coccolithophore <i>Emiliana huxleyi</i> in the North Sea. <i>Marine Ecology - Progress Series</i> , 1997, 157, 61-77.	0.9	33
105	Intracellular carbon partitioning in the coccolithophorid <i>Emiliana huxleyi</i> . <i>Journal of Marine Systems</i> , 1996, 9, 57-66.	0.9	23
106	Phytoplankton biomass and production in shelf waters off NW Spain: spatial and seasonal variability in relation to upwelling. <i>Hydrobiologia</i> , 1996, 341, 225-234.	1.0	57
107	Effects of the diatom- <i>Emiliana huxleyi</i> succession on photosynthesis, calcification and carbon metabolism by size-fractionated phytoplankton. <i>Hydrobiologia</i> , 1996, 317, 189-199.	1.0	15
108	Patterns of carbon and nitrogen uptake during blooms of <i>Emiliana huxleyi</i> in two Norwegian fjords. <i>Journal of Plankton Research</i> , 1996, 18, 2349-2366.	0.8	30

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109	Patterns of macromolecular synthesis by natural phytoplankton assemblages under changing upwelling regimes: in situ observations and microcosm experiments. <i>Journal of Experimental Marine Biology and Ecology</i> , 1995, 188, 1-28.	0.7	20
110	Changes in phytoplankton ecophysiology across a coastal upwelling front. <i>Journal of Plankton Research</i> , 1995, 17, 1999-2008.	0.8	15
111	Phytoplankton carbon incorporation patterns and biochemical composition of particulate matter in the eastern North Atlantic subtropical region. <i>Journal of Plankton Research</i> , 1994, 16, 1627-1644.	0.8	20
112	High rates of lipid biosynthesis in cultured, mesocosm and coastal populations of the cocco-lithophore <i>Emiliana huxleyi</i> . <i>Marine Ecology - Progress Series</i> , 1994, 114, 13-22.	0.9	43