

Laura Farias

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

2,239
citations

25
h-index

46
g-index

78
ext. papers

2,655
ext. citations

4.2
avg, IF

4.88
L-index

#	Paper	IF	Citations
76	Marine hypoxia/anoxia as a source of CH ₄ and N ₂ O. <i>Biogeosciences</i> , 2010 , 7, 2159-2190	4.6	241
75	Anaerobic ammonium oxidation in the oxygen-deficient waters off northern Chile. <i>Limnology and Oceanography</i> , 2006 , 51, 2145-2156	4.8	233
74	Anammox and denitrification in the oxygen minimum zone of the eastern South Pacific. <i>Limnology and Oceanography</i> , 2012 , 57, 1331-1346	4.8	188
73	Nitrogen fixation in denitrified marine waters. <i>PLoS ONE</i> , 2011 , 6, e20539	3.7	138
72	Biological and chemical consequences of the 1997-1998 El Niño in the Chilean coastal upwelling system: a synthesis. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 2389-2411	2.3	111
71	Communities of nirS-type denitrifiers in the water column of the oxygen minimum zone in the eastern South Pacific. <i>Environmental Microbiology</i> , 2005 , 7, 1298-306	5.2	74
70	Denitrification and nitrous oxide cycling within the upper oxycline of the eastern tropical South Pacific oxygen minimum zone. <i>Limnology and Oceanography</i> , 2009 , 54, 132-144	4.8	73
69	Dust fluxes and iron fertilization in Holocene and Last Glacial Maximum climates. <i>Geophysical Research Letters</i> , 2015 , 42, 6014-6023	4.9	56
68	Maintaining of the Eastern South Pacific Oxygen Minimum Zone (OMZ) off Chile. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	50
67	Massive developments of microbial mats following phytoplankton blooms in a naturally eutrophic bay: Implications for nitrogen cycling. <i>Limnology and Oceanography</i> , 2001 , 46, 821-832	4.8	48
66	Chemolithoautotrophic production mediating the cycling of the greenhouse gases N ₂ O and CH ₄ in an upwelling ecosystem. <i>Biogeosciences</i> , 2009 , 6, 3053-3069	4.6	45
65	Ammonia-oxidizing beta-proteobacteria from the oxygen minimum zone off northern Chile. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3547-55	4.8	43
64	Nitrous oxide and N-nutrient cycling in the oxygen minimum zone off northern Chile. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007 , 54, 164-180	2.5	43
63	Methane production induced by dimethylsulfide in surface water of an upwelling ecosystem. <i>Progress in Oceanography</i> , 2013 , 112-113, 38-48	3.8	41
62	N ₂ O cycling at the core of the oxygen minimum zone off northern Chile. <i>Marine Ecology - Progress Series</i> , 2004 , 280, 1-11	2.6	40
61	Primary production and nitrogen regeneration processes in surface waters of the Peruvian upwelling system. <i>Progress in Oceanography</i> , 2009 , 83, 159-168	3.8	37
60	Ammonium cycling under a strong oxygen gradient associated with the Oxygen Minimum Zone off northern Chile (~23°S). <i>Marine Ecology - Progress Series</i> , 2005 , 288, 35-43	2.6	37

59	Temporal variability of nitrogen cycling in continental-shelf sediments of the upwelling ecosystem off central Chile. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 2491-2505	2.3	35
58	Temporal dynamics of nitrogen loss in the coastal upwelling ecosystem off central Chile: Evidence of autotrophic denitrification through sulfide oxidation. <i>Limnology and Oceanography</i> , 2014 , 59, 1865-1878	4.8	33
57	Presence of nitrous oxide hotspots in the coastal upwelling area off central Chile: an analysis of temporal variability based on ten years of a biogeochemical time series. <i>Environmental Research Letters</i> , 2015 , 10, 044017	6.2	32
56	Aerobic ammonium oxidation in the oxycline and oxygen minimum zone of the eastern tropical South Pacific off northern Chile (~20°S). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009 , 56, 1032-1041	2.3	31
55	Seasonal cycle of N ₂ O vertical distribution and air-sea fluxes over the continental shelf waters off central Chile (~36°S). <i>Progress in Oceanography</i> , 2007 , 75, 383-395	3.8	31
54	Nitrous oxide distribution and its origin in the central and eastern South Pacific Subtropical Gyre. <i>Biogeosciences</i> , 2007 , 4, 729-741	4.6	30
53	Temporal variability in N ₂ O water content and its air-sea exchange in an upwelling area off central Chile (36°S). <i>Marine Chemistry</i> , 2006 , 101, 85-94	3.7	27
52	Greenhouse gas emissions from the Tubul-Raqui estuary (central Chile 36°S). <i>Estuarine, Coastal and Shelf Science</i> , 2013 , 134, 31-44	2.9	26
51	Nitrous oxide fluxes in the central and eastern South Pacific. <i>Global Biogeochemical Cycles</i> , 2010 , 24, n/a-n/a	5.9	25
50	An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018 , 15, 5891-5907	4.5	25
49	Assimilation and regeneration of inorganic nitrogen in a coastal upwelling system: ammonium and nitrate utilization. <i>Marine Ecology - Progress Series</i> , 2012 , 451, 1-14	2.6	23
48	Temporal and spatial variability of biological nitrogen fixation off the upwelling system of central Chile (35°B8.5°S). <i>Journal of Geophysical Research: Oceans</i> , 2015 , 120, 3330-3349	3.3	22
47	Biological N ₂ O fixation in the Eastern South Pacific Ocean and marine cyanobacterial cultures. <i>PLoS ONE</i> , 2013 , 8, e63956	3.7	22
46	The Influence of River Discharge on Nutrient Export and Phytoplankton Biomass Off the Central Chile Coast (33°B7°S): Seasonal Cycle and Interannual Variability. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	20
45	Effect of Coastal Upwelling on Nitrogen Regeneration from Sediments and Ammonium Supply to the Water Column in Concepcion Bay, Chile. <i>Estuarine, Coastal and Shelf Science</i> , 1996 , 43, 137-155	2.9	19
44	Coastal hypoxia/anoxia as a source of CH ₄ and N ₂ O		19
43	High production of nitrous oxide (N ₂ O), methane (CH ₄) and dimethylsulphoniopropionate (DMSP) in a massive marine phytoplankton culture		18
42	A Harmonized Nitrous Oxide (N ₂ O) Ocean Observation Network for the 21st Century. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	17

41	Following the N ₂ O consumption in the oxygen minimum zone of the eastern South Pacific. <i>Biogeosciences</i> , 2012 , 9, 3205-3212	4.6	17
40	Effect of seasonal changes in bottom water oxygenation on sediment N oxides and N ₂ O cycling in the coastal upwelling regime off central Chile (36.5°S). <i>Progress in Oceanography</i> , 2007 , 75, 561-575	3.8	16
39	Inter-annual variability of the Pelagic-Benthic coupling in the upwelling system off central Chile. <i>Advances in Geosciences</i> , 6 , 127-132		16
38	Dissolved greenhouse gases (nitrous oxide and methane) associated with the naturally iron-fertilized Kerguelen region (KEOPS 2 cruise) in the Southern Ocean. <i>Biogeosciences</i> , 2015 , 12, 1925-1940	4.6	14
37	Insight into anthropogenic forcing on coastal upwelling off south-central Chile. <i>Elementa</i> , 2018 , 6,	3.6	13
36	An unaccounted for N ₂ O sink in the surface water of the eastern subtropical South Pacific: Physical versus biological mechanisms. <i>Progress in Oceanography</i> , 2015 , 137, 12-23	3.8	12
35	Microbial activity during a coastal phytoplankton bloom on the Western Antarctic Peninsula in late summer. <i>FEMS Microbiology Letters</i> , 2018 , 365,	2.9	12
34	Temporal Variability in Net Primary Production in an Upwelling Area off Central Chile (36°S). <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	11
33	On the Nitrous Oxide Accumulation in Intermediate Waters of the Eastern South Pacific Ocean. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	11
32	A new method to evaluate the vulnerability of watersheds facing several stressors: A case study in mediterranean Chile. <i>Science of the Total Environment</i> , 2019 , 651, 1517-1533	10.2	11
31	Evidence of climate-driven changes on atmospheric, hydrological, and oceanographic variables along the Chilean coastal zone. <i>Climatic Change</i> , 2020 , 163, 633-652	4.5	10
30	Potential contribution of planktonic components to ammonium cycling in the coastal area off central-southern Chile during non-upwelling conditions. <i>Progress in Oceanography</i> , 2012 , 92-95, 43-49	3.8	10
29	Meridional variability of the vertical structure and air-sea fluxes of N ₂ O off central Chile (30-40°S). <i>Progress in Oceanography</i> , 2012 , 92-95, 33-42	3.8	10
28	Biogeochemical characteristics of a long-lived anticyclonic eddy in the eastern South Pacific Ocean. <i>Biogeosciences</i> , 2016 , 13, 2971-2979	4.6	10
27	Dissolved Methane Distribution in the Reloncaví Fjord and Adjacent Marine System During Austral Winter (41°-43° S). <i>Estuaries and Coasts</i> , 2017 , 40, 1592-1606	2.8	9
26	Vertical segregation among pathways mediating nitrogen loss (N ₂ and N ₂ O production) across the oxygen gradient in a coastal upwelling ecosystem. <i>Biogeosciences</i> , 2017 , 14, 4795-4813	4.6	8
25	Climate relevant trace gases (N ₂ O and CH ₄) in the Eurasian Basin (Arctic Ocean). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2016 , 117, 84-94	2.5	8
24	Benthic nitrogen regeneration under oxygen and organic matter spatial variability off Concepción (~36°S), central Chile. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2004 , 51, 2507-2522	2.3	8

23	Potential role of bacterial mats in the nitrogen budget of marine sediments: the case of <i>Thioploca</i> spp.. <i>Marine Ecology - Progress Series</i> , 1998 , 170, 291-292	2.6	8
22	Greenhouse gases, nutrients and the carbonate system in the Reloncavé fjord (Northern Chilean Patagonia): Implications on aquaculture of the mussel, <i>Mytilus chilensis</i> , during an episodic volcanic eruption. <i>Science of the Total Environment</i> , 2019 , 669, 49-61	10.2	7
21	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020 , 17, 5809-5828	4.6	7
20	Nitrogen fixation in the Southern Ocean: a case of study of the Fe-fertilized Kerguelen region (KEOPS II cruise)		7
19	Chemolithoautotrophic production mediating the cycling of the greenhouse gases N_2O and CH_4 in an upwelling ecosystem		7
18	Spatial Distribution of Nitrous Oxide (N_2O) in the Reloncavé Estuary and Adjacent Sea ($41^\circ 33' \text{S}$), Chilean Patagonia. <i>Estuaries and Coasts</i> , 2017 , 40, 807-821	2.8	6
17	Inter-annual variability of dissolved inorganic nitrogen in the Biobío River, Central Chile: an analysis based on a decadal database along with 1-D reactive transport modeling		6
16	Coastal Bacterial Community Response to Glacier Melting in the Western Antarctic Peninsula. <i>Microorganisms</i> , 2021 , 9,	4.9	6
15	Fermentation and Anaerobic Oxidation of Organic Carbon in the Oxygen Minimum Zone of the Upwelling Ecosystem Off Concepción, in Central Chile. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	4
14	A source of isotopically light organic carbon in a low-pH anoxic marine zone. <i>Nature Communications</i> , 2021 , 12, 1604	17.4	4
13	Toward High-Resolution Vertical Measurements of Dissolved Greenhouse Gases (Nitrous Oxide and Methane) and Nutrients in the Eastern South Pacific. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	3
12	Dissolved greenhouse gases (nitrous oxide and methane) associated with the natural iron-fertilized Kerguelen region (KEOPS 2 cruise) in the Southern Ocean		3
11	Distribution of dissolved methane and nitrous oxide in Chilean coastal systems of the Magellanic Sub-Antarctic region ($50^\circ 55' \text{S}$). <i>Estuarine, Coastal and Shelf Science</i> , 2018 , 215, 229-240	2.9	3
10	Biogeochemical characteristics of a long-lived anticyclonic eddy in the eastern South Pacific Ocean		2
9	The influence of anoxia and substrate availability on N_2O cycling by denitrification in the upper boundary of the oxygen minimum zone off northern Chile. <i>Journal of Marine Research</i> , 2015 , 73, 185-205 ^{1.5}		1
8	Incidence of phytoplankton and environmental conditions on the bacterial ammonium uptake in a subtropical coastal lagoon. <i>Journal of Limnology</i> , 2014 , 73,	1.5	1
7	Following the N_2O consumption at the Oxygen Minimum Zone in the eastern South Pacific		1
6	Temporal methane variability in the water column of an area of seasonal coastal upwelling: A study based on a 12 year time series. <i>Progress in Oceanography</i> , 2021 , 195, 102589	3.8	1

- 5 Proteorhodopsin Phototrophy in Antarctic Coastal Waters. *MSphere*, **2021**, 6, e0052521 5 1
- 4 Surface Ammonia-Oxidizer Abundance During the Late Summer in the West Antarctic Coastal System.. *Frontiers in Microbiology*, **2022**, 13, 821902 5-7 1
- 3 Spatial Distribution of Dissolved Methane Over Extreme Oceanographic Gradients in the Subtropical Eastern South Pacific (17° to 37°S). *Journal of Geophysical Research: Oceans*, **2021**, 126, e2020JC016925 3-3 0
- 2 Temporal dynamics of dissolved inorganic nitrogen (DIN) in the aphotic layer of a coastal upwelling system with variable dissolved oxygen. *Journal of Marine Systems*, **2020**, 209, 103087 2-7
- 1 Dark Diazotrophy during the Late Summer in Surface Waters of Chile Bay, West Antarctic Peninsula. *Microorganisms*, **2022**, 10, 1140 4-9