

Nathalie Lefevre

List of Publications by Year in descending order

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76
papers

9,777
citations

172457

29
h-index

71685

76
g-index

84
all docs

84
docs citations

84
times ranked

13033
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
2	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
3	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
4	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
5	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
6	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
7	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
8	A multi-decade record of high-quality CO_2 data in version 3 of the Surface Ocean CO_2 Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	9.9	413
9	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	9.9	311
10	A uniform, quality controlled Surface Ocean CO_2 Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	9.9	158
11	An update to the Surface Ocean CO_2 Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	9.9	158
12	An assessment of the Atlantic and Arctic sea-air CO_2 fluxes, 1990-2009. Biogeosciences, 2013, 10, 607-627.	3.3	131
13	Modeling the geochemical cycle of iron in the oceans and its impact on atmospheric CO_2 concentrations. Global Biogeochemical Cycles, 1999, 13, 727-736.	4.9	107
14	Surface Ocean CO_2 Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	9.9	101
15	A decrease in the sink for atmospheric CO_2 in the North Atlantic. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	92
16	EUREC4A. Earth System Science Data, 2021, 13, 4067-4119.	9.9	88
17	The Tropical Atlantic Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	80
18	PIRATA: A Sustained Observing System for Tropical Atlantic Climate Research and Forecasting. Earth and Space Science, 2019, 6, 577-616.	2.6	63

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19	Observations of pCO ₂ in the coastal upwelling off Chile: Spatial and temporal extrapolation using satellite data. <i>Journal of Geophysical Research</i> , 2002, 107, 8-1.	3.3	62
20	A new optical sensor for PCO ₂ measurements in seawater. <i>Marine Chemistry</i> , 1993, 42, 189-198.	2.3	58
21	A comparison of multiple regression and neural network techniques for mapping in situ pCO ₂ data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 375-384.	1.6	54
22	Origin of CO ₂ undersaturation in the western tropical Atlantic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 595.	1.6	48
23	Variability of pCO ₂ in the tropical Atlantic in 1995. <i>Journal of Geophysical Research</i> , 1998, 103, 5623-5634.	3.3	47
24	Estimating pCO ₂ from sea surface temperatures in the Atlantic gyres. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 539-554.	1.4	42
25	PCO ₂ , chemical properties, and estimated new production in the equatorial Pacific in January–March 1991. <i>Journal of Geophysical Research</i> , 1994, 99, 12639.	3.3	35
26	Modeling carbon to nitrogen and carbon to chlorophyll <i>a</i> ratios in the ocean at low latitudes: Evaluation of the role of physiological plasticity. <i>Limnology and Oceanography</i> , 2003, 48, 1796-1807.	3.1	35
27	Surface ocean carbon dioxide during the Atlantic Meridional Transect (1995–2013); evidence of ocean acidification. <i>Progress in Oceanography</i> , 2017, 158, 65-75.	3.2	35
28	Estimation of the oceanic pCO ₂ in the North Atlantic from VOS lines in-situ measurements: parameters needed to generate seasonally mean maps. <i>Annales Geophysicae</i> , 2007, 25, 2247-2257.	1.6	33
29	Seasonal and interannual variability of sea-air CO ₂ fluxes in the tropical Atlantic affected by the Amazon River plume. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1640-1655.	4.9	32
30	Increased CO ₂ outgassing in February–May 2010 in the tropical Atlantic following the 2009 Pacific El Niño. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1645-1657.	2.6	31
31	A comparison of multiple regression and neural network techniques for mapping in situ pCO ₂ data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 57, 375.	1.6	30
32	Variability of fCO ₂ in the Eastern Tropical Atlantic from a moored buoy. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	28
33	The overlooked tropical oceanic CO ₂ sink. <i>Geophysical Research Letters</i> , 2016, 43, 3804-3812.	4.0	28
34	A Synoptic Assessment of the Amazon River-Ocean Continuum during Boreal Autumn: From Physics to Plankton Communities and Carbon Flux. <i>Frontiers in Microbiology</i> , 2017, 8, 1358.	3.5	26
35	Air-sea CO ₂ fluxes in the equatorial Pacific in January–March 1991. <i>Geophysical Research Letters</i> , 1992, 19, 2223-2226.	4.0	25
36	Winter weather controls net influx of atmospheric CO ₂ on the north-west European shelf. <i>Scientific Reports</i> , 2019, 9, 20153.	3.3	25

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37	Net Heterotrophy in the Amazon Continental Shelf Changes Rapidly to a Sink of CO ₂ in the Outer Amazon Plume. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	22
38	Spatial and Temporal Variability of the CO ₂ Fluxes in a Tropical, Highly Urbanized Estuary. <i>Estuaries and Coasts</i> , 2013, 36, 1054-1072.	2.2	21
39	Impact of physical processes on the seasonal distribution of the fugacity of CO ₂ in the western tropical Atlantic. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 646-663.	2.6	21
40	Satellite-derived CO ₂ fugacity in surface seawater of the tropical Atlantic Ocean using a feedforward neural network. <i>International Journal of Remote Sensing</i> , 2016, 37, 580-598.	2.9	21
41	Air-sea CO ₂ fluxes for the Brazilian northeast continental shelf in a climatic transition region. <i>Journal of Marine Systems</i> , 2017, 173, 70-80.	2.1	21
42	Assessing the seasonality of the oceanic sink for CO ₂ in the northern hemisphere. <i>Global Biogeochemical Cycles</i> , 1999, 13, 273-286.	4.9	20
43	Sea water fugacity of CO ₂ at the PIRATA mooring at 6°S, 10°W. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 636.	1.6	20
44	Low CO ₂ concentrations in the Gulf of Guinea during the upwelling season in 2006. <i>Marine Chemistry</i> , 2009, 113, 93-101.	2.3	19
45	Distribution of CO ₂ parameters in the Western Tropical Atlantic Ocean. <i>Dynamics of Atmospheres and Oceans</i> , 2016, 73, 47-60.	1.8	19
46	Amazon Plume Salinity Response to Ocean Teleconnections. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	19
47	Carbon and oxygen net community production in the eastern tropical Atlantic estimated from a moored buoy. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	4.9	18
48	A source of CO ₂ to the atmosphere throughout the year in the Maranhense continental shelf (2°30'S). <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 1180-1194.	1.8	18
49	Collapse of the tropical and subtropical North Atlantic CO ₂ sink in boreal spring of 2010. <i>Scientific Reports</i> , 2017, 7, 41694.	3.3	17
50	Distribution of the CO ₂ partial pressure along an Atlantic meridional transect. <i>Progress in Oceanography</i> , 2000, 45, 401-413.	3.2	16
51	Surface CO ₂ parameters and air-sea CO ₂ flux distribution in the eastern equatorial Atlantic Ocean. <i>Journal of Marine Systems</i> , 2010, 82, 135-144.	2.1	16
52	Seasonal sea-surface carbon dioxide in the Azores area. <i>Marine Chemistry</i> , 2005, 96, 35-51.	2.3	15
53	Spatial and temporal variability of CO ₂ fluxes in tropical estuarine systems near areas of high population density in Brazil. <i>Regional Environmental Change</i> , 2015, 15, 619-630.	2.9	13
54	Constraining the Oceanic Uptake and Fluxes of Greenhouse Gases by Building an Ocean Network of Certified Stations: The Ocean Component of the Integrated Carbon Observation System, ICOS-Oceans. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	13

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55	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO ₂ than expected. <i>Biogeosciences</i> , 2022, 19, 2969-2988.	3.3	12
56	A comparison of Multiple Non-linear regression and neural network techniques for sea surface salinity estimation in the tropical Atlantic ocean based on satellite data. <i>ESAIM Proceedings and Surveys</i> , 2015, 49, 65-77.	0.4	11
57	Overview of optical designs of the port-plug components for the ITER Equatorial Wide Angle Viewing System (WAVS). <i>Fusion Engineering and Design</i> , 2019, 146, 2442-2445.	1.9	11
58	The sensitivity of atmospheric CO ₂ concentrations to input of iron to the oceans. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 453-460.	1.6	10
59	Variability of CO ₂ fugacity at the western edge of the tropical Atlantic Ocean from the 8°N to 38°W PIRATA buoy. <i>Dynamics of Atmospheres and Oceans</i> , 2017, 78, 1-13.	1.8	10
60	Intra- and Inter-Annual Variability of North Brazil Current Rings Using Angular Momentum Eddy Detection and Tracking Algorithm: Observations From 1993 to 2016. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015921.	2.6	10
61	The sensitivity of atmospheric CO ₂ concentrations to input of iron to the oceans.. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 453-460.	1.6	9
62	Variability and trends of carbon parameters at a time series in the eastern tropical Atlantic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30305.	1.6	9
63	On the variability in the CO ₂ system and water productivity in the western tropical Atlantic off North and Northeast Brazil. <i>Journal of Marine Systems</i> , 2019, 189, 62-77.	2.1	9
64	Nutrient Input and CO ₂ Flux of a Tropical Coastal Fluvial System with High Population Density in the Northeast Region of Brazil. <i>Journal of Water Resource and Protection</i> , 2013, 05, 362-375.	0.8	9
65	Alkalinity, inorganic carbon and CO ₂ flux variability during extreme rainfall years (2010-2011) in two polluted tropical estuaries NE Brazil. <i>Brazilian Journal of Oceanography</i> , 2018, 66, 115-130.	0.6	7
66	Ocean Circulation Drives the Variability of the Carbon System in the Eastern Tropical Atlantic. <i>Oceans</i> , 2021, 2, 126-148.	1.3	6
67	Amazon River propagation evidenced by a CO ₂ decrease at 8°N, 38°W in September 2013. <i>Journal of Marine Systems</i> , 2020, 211, 103419.	2.1	5
68	Spatial and temporal variability of the physical, carbonate and CO ₂ properties in the Southern Ocean surface waters during austral summer (2005-2019). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2022, , 103836.	1.4	4
69	Basin-Scale Estimate of the Sea-Air CO ₂ Flux During the 2010 Warm Event in the Tropical North Atlantic. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 973-986.	3.0	3
70	Carbon chemistry variability around a tropical archipelago. <i>Marine and Freshwater Research</i> , 2019, 70, 767.	1.3	3
71	Les avancées d'AMMA sur les interactions océan-atmosphère. <i>La Météorologie</i> , 2012, 8, 17.	0.5	3
72	Phytoplankton physiology can affect ocean surface temperatures. <i>Geophysical Research Letters</i> , 2001, 28, 1251-1254.	4.0	2

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73	Evidence for enhanced primary production driving significant CO ₂ drawdown associated with the Atlantic ITCZ. <i>Science of the Total Environment</i> , 2022, 838, 156592.	8.0	2
74	Origin of CO ₂ undersaturation in the western tropical Atlantic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010, 62, .	1.6	1
75	Caracterizaci3n de los flujos de CO ₂ y los par3metros asociados con el sistema de carbonato en el estuario R3o Formoso, Brasil. <i>Revista De Biologia Marina Y Oceanografia</i> , 2015, 50, 603-609.	0.2	0
76	A comparative study of total alkalinity and total inorganic carbon near tropical Atlantic coastal regions. <i>Journal of Coastal Conservation</i> , 2022, 26, .	1.6	0