Carolin R Löscher

List of Publications by Year in descending order

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47 papers

2,756 citations

236925 25 h-index 243625 44 g-index

93 all docs 93 docs citations 93 times ranked 3903 citing authors

#	Article	IF	Citations
1	Nitrogen cycling driven by organic matter export in the South Pacific oxygen minimum zone. Nature Geoscience, 2013, 6, 228-234.	12.9	295
2	Production of oceanic nitrous oxide by ammonia-oxidizing archaea. Biogeosciences, 2012, 9, 2419-2429.	3.3	195
3	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. Nature Microbiology, 2016, 1, 16163.	13.3	194
4	The ocean sampling day consortium. GigaScience, 2015, 4, 27.	6.4	185
5	Toward the Integrated Marine Debris Observing System. Frontiers in Marine Science, 2019, 6, .	2.5	178
6	Giant Hydrogen Sulfide Plume in the Oxygen Minimum Zone off Peru Supports Chemolithoautotrophy. PLoS ONE, 2013, 8, e68661.	2.5	158
7	Facets of diazotrophy in the oxygen minimum zone waters off Peru. ISME Journal, 2014, 8, 2180-2192.	9.8	121
8	Massive nitrous oxide emissions from the tropical South Pacific Ocean. Nature Geoscience, 2015, 8, 530-533.	12.9	113
9	Aerobic Microbial Respiration In Oceanic Oxygen Minimum Zones. PLoS ONE, 2015, 10, e0133526.	2.5	99
10	Occurrence of benthic microbial nitrogen fixation coupled to sulfate reduction in the seasonally hypoxic Eckernförde Bay, Baltic Sea. Biogeosciences, 2013, 10, 1243-1258.	3.3	98
11	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. Nature Communications, 2018, 9, 1729.	12.8	93
12	Nitrate-dependent iron oxidation limits iron transport in anoxic ocean regions. Earth and Planetary Science Letters, 2016, 454, 272-281.	4.4	83
13	Toxic algal bloom induced by ocean acidification disrupts the pelagic food web. Nature Climate Change, 2018, 8, 1082-1086.	18.8	75
14	Extreme N ₂ O accumulation in the coastal oxygen minimum zone off Peru. Biogeosciences, 2016, 13, 827-840.	3.3	60
15	Dead zone or oasis in the open ocean? Zooplankton distribution and migration in low-oxygen modewater eddies. Biogeosciences, 2016, 13, 1977-1989.	3.3	53
16	Microbial methanogenesis in the sulfate-reducing zone of sediments in the Eckernförde Bay, SW Baltic Sea. Biogeosciences, 2018, 15, 137-157.	3.3	51
17	Nitrogen fixation in sediments along a depth transect through the Peruvian oxygen minimum zone. Biogeosciences, 2016, 13, 4065-4080.	3.3	47
18	N ₂ fixation in eddies of the eastern tropical South Pacific Ocean. Biogeosciences, 2016, 13, 2889-2899.	3.3	45

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19	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. ISME Journal, 2019, 13, 3011-3023.	9.8	45
20	Upwelling and isolation in oxygen-depleted anticyclonic modewater eddies and implications for nitrate cycling. Biogeosciences, 2017, 14, 2167-2181.	3.3	42
21	Regulation of nitrous oxide production in low-oxygen waters off the coast of Peru. Biogeosciences, 2020, 17, 2263-2287.	3.3	38
22	Nitrous oxide dynamics in low oxygen regions of the Pacific: insights from the MEMENTO database. Biogeosciences, 2012, 9, 5007-5022.	3.3	37
23	Marine ammonification and carbonic anhydrase activity induce rapid calcium carbonate precipitation. Geochimica Et Cosmochimica Acta, 2018, 243, 116-132.	3.9	36
24	No nitrogen fixation in the Bay of Bengal?. Biogeosciences, 2020, 17, 851-864.	3.3	33
25	Air-Sea Interactions of Natural Long-Lived Greenhouse Gases (CO2, N2O, CH4) in a Changing Climate. Springer Earth System Sciences, 2014, , 113-169.	0.2	29
26	Hidden biosphere in an oxygen-deficient Atlantic open-ocean eddy: future implications of ocean deoxygenation on primary production in the eastern tropical North Atlantic. Biogeosciences, 2015, 12, 7467-7482.	3.3	29
27	Oxygen utilization and downward carbon flux in an oxygen-depleted eddy in the eastern tropical North Atlantic. Biogeosciences, 2016, 13, 5633-5647.	3.3	29
28	Benthic phosphorus cycling in the Peruvian oxygen minimum zone. Biogeosciences, 2016, 13, 1367-1386.	3.3	27
29	Water column biogeochemistry of oxygen minimum zones in the eastern tropical North Atlantic and eastern tropical South Pacific oceans. Biogeosciences, 2016, 13, 3585-3606.	3.3	27
30	Changing nutrient stoichiometry affects phytoplankton production, DOP accumulation and dinitrogen fixation $\hat{a} \in a$ mesocosm experiment in the eastern tropical North Atlantic. Biogeosciences, 2016, 13, 781-794.	3.3	23
31	Factors controlling plankton community production, export flux, and particulate matter stoichiometry in the coastal upwelling system off Peru. Biogeosciences, 2020, 17, 4831-4852.	3.3	21
32	Benthic Dinitrogen Fixation Traversing the Oxygen Minimum Zone Off Mauritania (NW Africa). Frontiers in Marine Science, 2017, 4, .	2.5	19
33	Construction and Screening of Marine Metagenomic Libraries. Methods in Molecular Biology, 2010, 668, 51-65.	0.9	16
34	Interspecies interactions mediated by conductive minerals in the sediments of the Iron rich Meromictic Lake La Cruz, Spain., 2019, 38, 21-40.		16
35	Influence of mesoscale eddies on the distribution of nitrous oxide in the eastern tropical South Pacific. Biogeosciences, 2016, 13, 1105-1118.	3.3	15
36	Nitric oxide (NO) in the oxygen minimum zone off Peru. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 156, 148-154.	1.4	12

#	Article	IF	CITATIONS
37	Mechanisms of P* Reduction in the Eastern Tropical South Pacific. Frontiers in Marine Science, 2017, 4, .	2.5	11
38	Reviews and syntheses: Trends in primary production in the Bay of Bengal $\hat{a} \in \text{``is it at a tipping point?'}$. Biogeosciences, 2021, 18, 4953-4963.	3.3	10
39	Climate-Biogeochemistry Interactions in the Tropical Ocean: Data Collection and Legacy. Frontiers in Marine Science, 2021, 8, .	2.5	8
40	The regulation of oxygen to low concentrations in marine oxygen-minimum zones. Journal of Marine Research, 2019, 77, 297-324.	0.3	8
41	Dissolved N:P ratio changes in the eastern tropical North Atlantic: effect on phytoplankton growth and community structure. Marine Ecology - Progress Series, 2016, 545, 49-62.	1.9	6
42	Impact of increasing carbon dioxide on dinitrogen and carbon fixation rates under oligotrophic conditions and simulated upwelling. Limnology and Oceanography, 2021, 66, 2855-2867.	3.1	4
43	Salinity as a key control on the diazotrophic community composition in the southern Baltic Sea. Ocean Science, 2022, 18, 401-417.	3.4	4
44	Nitrogen loss processes in response to upwelling in a Peruvian coastal setting dominated by denitrification – a mesocosm approach. Biogeosciences, 2021, 18, 4305-4320.	3.3	3
45	High Diazotrophic Diversity but Low N2 Fixation Activity in the Northern Benguela Upwelling System Confirming the Enigma of Nitrogen Fixation in Oxygen Minimum Zone Waters. Frontiers in Marine Science, 2022, 9, .	2.5	3
46	Nitrogenases in Oxygen Minimum Zone Waters. Frontiers in Marine Science, 0, 9, .	2.5	1
47	Identification of oceanic hotspots for production of the neurotoxin \hat{l}^2 -N-methylamino-L-alanine: a multidisciplinary ocean-prospecting study. Lancet Planetary Health, The, 2018, 2, S24.	11.4	0