

Carolin R LÃ¶scher

List of Publications by Year in descending order

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47
papers

2,756
citations

236925

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h-index

243625

44
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93
all docs

93
docs citations

93
times ranked

3903
citing authors

#	ARTICLE	IF	CITATIONS
1	Salinity as a key control on the diazotrophic community composition in the southern Baltic Sea. <i>Ocean Science</i> , 2022, 18, 401-417.	3.4	4
2	High Diazotrophic Diversity but Low N ₂ Fixation Activity in the Northern Benguela Upwelling System Confirming the Enigma of Nitrogen Fixation in Oxygen Minimum Zone Waters. <i>Frontiers in Marine Science</i> , 2022, 9, .	2.5	3
3	Impact of increasing carbon dioxide on dinitrogen and carbon fixation rates under oligotrophic conditions and simulated upwelling. <i>Limnology and Oceanography</i> , 2021, 66, 2855-2867.	3.1	4
4	Nitrogen loss processes in response to upwelling in a Peruvian coastal setting dominated by denitrification – a mesocosm approach. <i>Biogeosciences</i> , 2021, 18, 4305-4320.	3.3	3
5	Reviews and syntheses: Trends in primary production in the Bay of Bengal – is it at a tipping point?. <i>Biogeosciences</i> , 2021, 18, 4953-4963.	3.3	10
6	Climate-Biogeochemistry Interactions in the Tropical Ocean: Data Collection and Legacy. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
7	Regulation of nitrous oxide production in low-oxygen waters off the coast of Peru. <i>Biogeosciences</i> , 2020, 17, 2263-2287.	3.3	38
8	No nitrogen fixation in the Bay of Bengal?. <i>Biogeosciences</i> , 2020, 17, 851-864.	3.3	33
9	Factors controlling plankton community production, export flux, and particulate matter stoichiometry in the coastal upwelling system off Peru. <i>Biogeosciences</i> , 2020, 17, 4831-4852.	3.3	21
10	Toward the Integrated Marine Debris Observing System. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	178
11	Baltic Sea methanogens compete with acetogens for electrons from metallic iron. <i>ISME Journal</i> , 2019, 13, 3011-3023.	9.8	45
12	The regulation of oxygen to low concentrations in marine oxygen-minimum zones. <i>Journal of Marine Research</i> , 2019, 77, 297-324.	0.3	8
13	Interspecies interactions mediated by conductive minerals in the sediments of the Iron rich Meromictic Lake La Cruz, Spain. , 2019, 38, 21-40.		16
14	Nitric oxide (NO) in the oxygen minimum zone off Peru. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 156, 148-154.	1.4	12
15	Toxic algal bloom induced by ocean acidification disrupts the pelagic food web. <i>Nature Climate Change</i> , 2018, 8, 1082-1086.	18.8	75
16	Marine ammonification and carbonic anhydrase activity induce rapid calcium carbonate precipitation. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 243, 116-132.	3.9	36
17	Identification of oceanic hotspots for production of the neurotoxin Î ² -N-methylamino-L-alanine: a multidisciplinary ocean-prospecting study. <i>Lancet Planetary Health</i> , The, 2018, 2, S24.	11.4	0
18	Microbial methanogenesis in the sulfate-reducing zone of sediments in the Eckernförde Bay, SW Baltic Sea. <i>Biogeosciences</i> , 2018, 15, 137-157.	3.3	51

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19	Oxygen minimum zone cryptic sulfur cycling sustained by offshore transport of key sulfur oxidizing bacteria. <i>Nature Communications</i> , 2018, 9, 1729.	12.8	93
20	Mechanisms of P* Reduction in the Eastern Tropical South Pacific. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	11
21	Benthic Dinitrogen Fixation Traversing the Oxygen Minimum Zone Off Mauritania (NW Africa). <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	19
22	Upwelling and isolation in oxygen-depleted anticyclonic modewater eddies and implications for nitrate cycling. <i>Biogeosciences</i> , 2017, 14, 2167-2181.	3.3	42
23	Influence of mesoscale eddies on the distribution of nitrous oxide in the eastern tropical South Pacific. <i>Biogeosciences</i> , 2016, 13, 1105-1118.	3.3	15
24	Benthic phosphorus cycling in the Peruvian oxygen minimum zone. <i>Biogeosciences</i> , 2016, 13, 1367-1386.	3.3	27
25	Changing nutrient stoichiometry affects phytoplankton production, DOP accumulation and dinitrogen fixation â€“ a mesocosm experiment in the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2016, 13, 781-794.	3.3	23
26	Nitrogen fixation in sediments along a depth transect through the Peruvian oxygen minimum zone. <i>Biogeosciences</i> , 2016, 13, 4065-4080.	3.3	47
27	Dead zone or oasis in the open ocean? Zooplankton distribution and migration in low-oxygen modewater eddies. <i>Biogeosciences</i> , 2016, 13, 1977-1989.	3.3	53
28	Extreme N<sub>2</sub>O accumulation in the coastal oxygen minimum zone off Peru. <i>Biogeosciences</i> , 2016, 13, 827-840.	3.3	60
29	Oxygen utilization and downward carbon flux in an oxygen-depleted eddy in the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2016, 13, 5633-5647.	3.3	29
30	N<sub>2</sub> fixation in eddies of the eastern tropical South Pacific Ocean. <i>Biogeosciences</i> , 2016, 13, 2889-2899.	3.3	45
31	Water column biogeochemistry of oxygen minimum zones in the eastern tropical North Atlantic and eastern tropical South Pacific oceans. <i>Biogeosciences</i> , 2016, 13, 3585-3606.	3.3	27
32	Nitrate-dependent iron oxidation limits iron transport in anoxic ocean regions. <i>Earth and Planetary Science Letters</i> , 2016, 454, 272-281.	4.4	83
33	The small unicellular diazotrophic symbiont, UCYN-A, is a key player in the marine nitrogen cycle. <i>Nature Microbiology</i> , 2016, 1, 16163.	13.3	194
34	Dissolved N:P ratio changes in the eastern tropical North Atlantic: effect on phytoplankton growth and community structure. <i>Marine Ecology - Progress Series</i> , 2016, 545, 49-62.	1.9	6
35	Hidden biosphere in an oxygen-deficient Atlantic open-ocean eddy: future implications of ocean deoxygenation on primary production in the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2015, 12, 7467-7482.	3.3	29
36	The ocean sampling day consortium. <i>GigaScience</i> , 2015, 4, 27.	6.4	185

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37	Massive nitrous oxide emissions from the tropical South Pacific Ocean. <i>Nature Geoscience</i> , 2015, 8, 530-533.	12.9	113
38	Aerobic Microbial Respiration In Oceanic Oxygen Minimum Zones. <i>PLoS ONE</i> , 2015, 10, e0133526.	2.5	99
39	Air-Sea Interactions of Natural Long-Lived Greenhouse Gases (CO ₂ , N ₂ O, CH ₄) in a Changing Climate. <i>Springer Earth System Sciences</i> , 2014, , 113-169.	0.2	29
40	Facets of diazotrophy in the oxygen minimum zone waters off Peru. <i>ISME Journal</i> , 2014, 8, 2180-2192.	9.8	121
41	Nitrogen cycling driven by organic matter export in the South Pacific oxygen minimum zone. <i>Nature Geoscience</i> , 2013, 6, 228-234.	12.9	295
42	Giant Hydrogen Sulfide Plume in the Oxygen Minimum Zone off Peru Supports Chemolithoautotrophy. <i>PLoS ONE</i> , 2013, 8, e68661.	2.5	158
43	Occurrence of benthic microbial nitrogen fixation coupled to sulfate reduction in the seasonally hypoxic Eckernförde Bay, Baltic Sea. <i>Biogeosciences</i> , 2013, 10, 1243-1258.	3.3	98
44	Production of oceanic nitrous oxide by ammonia-oxidizing archaea. <i>Biogeosciences</i> , 2012, 9, 2419-2429.	3.3	195
45	Nitrous oxide dynamics in low oxygen regions of the Pacific: insights from the MEMENTO database. <i>Biogeosciences</i> , 2012, 9, 5007-5022.	3.3	37
46	Construction and Screening of Marine Metagenomic Libraries. <i>Methods in Molecular Biology</i> , 2010, 668, 51-65.	0.9	16
47	Nitrogenases in Oxygen Minimum Zone Waters. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	1