

# Stefano Bonaglia

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9272017/publications.pdf>

Version: 2024-02-01

49  
papers

1,827  
citations

361045

20  
h-index

276539

41  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2299  
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of benthic-pelagic coupling for marine ecosystem functioning in a changing world. <i>Global Change Biology</i> , 2017, 23, 2179-2196.	4.2	294
2	Submarine groundwater discharge impacts on coastal nutrient biogeochemistry. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 307-323.	12.2	210
3	Meiofauna increases bacterial denitrification in marine sediments. <i>Nature Communications</i> , 2014, 5, 5133.	5.8	182
4	Aerobic and anaerobic nitrogen transformation processes in N <sub>2</sub> -fixing cyanobacterial aggregates. <i>ISME Journal</i> , 2015, 9, 1456-1466.	4.4	126
5	Seasonal oxygen, nitrogen and phosphorus benthic cycling along an impacted Baltic Sea estuary: regulation and spatial patterns. <i>Biogeochemistry</i> , 2014, 119, 139-160.	1.7	68
6	Effect of reoxygenation and <i>Marenzelleria</i> spp. bioturbation on Baltic Sea sediment metabolism. <i>Marine Ecology - Progress Series</i> , 2013, 482, 43-55.	0.9	61
7	Denitrification and DNRA at the Baltic Sea oxic-anoxic interface: Substrate spectrum and kinetics. <i>Limnology and Oceanography</i> , 2016, 61, 1900-1915.	1.6	60
8	Activated carbon stimulates microbial diversity and PAH biodegradation under anaerobic conditions in oil-polluted sediments. <i>Chemosphere</i> , 2020, 248, 126023.	4.2	50
9	Untangling hidden nutrient dynamics: rapid ammonium cycling and single-cell ammonium assimilation in marine plankton communities. <i>ISME Journal</i> , 2019, 13, 1960-1974.	4.4	49
10	Active DNRA and denitrification in oxic hypereutrophic waters. <i>Water Research</i> , 2021, 194, 116954.	5.3	49
11	Methane fluxes from coastal sediments are enhanced by macrofauna. <i>Scientific Reports</i> , 2017, 7, 13145.	1.6	41
12	Transient bottom water oxygenation creates a niche for cable bacteria in long-term anoxic sediments of the Eastern Gotland Basin. <i>Environmental Microbiology</i> , 2018, 20, 3031-3041.	1.8	37
13	Short exposure to oxygen and sulfide alter nitrification, denitrification, and DNRA activity in seasonally hypoxic estuarine sediments. <i>FEMS Microbiology Letters</i> , 2019, 366, .	0.7	37
14	Capping with activated carbon reduces nutrient fluxes, denitrification and meiofauna in contaminated sediments. <i>Water Research</i> , 2019, 148, 515-525.	5.3	34
15	Oxygenation of an anoxic fjord basin strongly stimulates benthic denitrification and DNRA. <i>Biogeochemistry</i> , 2015, 126, 131-152.	1.7	33
16	Benthic nitrogen metabolism in a macrophyte meadow ( <i>Vallisneria spiralis</i> L.) under increasing sedimentary organic matter loads. <i>Biogeochemistry</i> , 2015, 124, 387-404.	1.7	33
17	The fate of fixed nitrogen in marine sediments with low organic loading: an in situ study. <i>Biogeosciences</i> , 2017, 14, 285-300.	1.3	33
18	Influence of Natural Oxygenation of Baltic Proper Deep Water on Benthic Recycling and Removal of Phosphorus, Nitrogen, Silicon and Carbon. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	26

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19	N <sub>2</sub> fixation dominates nitrogen cycling in a mangrove fiddler crab holobiont. <i>Scientific Reports</i> , 2020, 10, 13966.	1.6	25
20	The effects of hydrological extremes on denitrification, dissimilatory nitrate reduction to ammonium (DNRA) and mineralization in a coastal lagoon. <i>Science of the Total Environment</i> , 2020, 740, 140169.	3.9	22
21	Meiofauna improve oxygenation and accelerate sulfide removal in the seasonally hypoxic seabed. <i>Marine Environmental Research</i> , 2020, 159, 104968.	1.1	20
22	Sediment Remediation with New Composite Sorbent Amendments to Sequester Phosphorus, Organic Contaminants, and Metals. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11937-11947.	4.6	19
23	In situ incubations with the Gothenburg benthic chamber landers: Applications and quality control. <i>Journal of Marine Systems</i> , 2021, 214, 103475.	0.9	18
24	Influence of settling organic matter quantity and quality on benthic nitrogen cycling. <i>Limnology and Oceanography</i> , 2021, 66, 1882-1895.	1.6	18
25	The Effect of Chironomid Larvae on Nitrogen Cycling and Microbial Communities in Soft Sediments. <i>Water (Switzerland)</i> , 2019, 11, 1931.	1.2	17
26	Physical Disturbance by Bottom Trawling Suspends Particulate Matter and Alters Biogeochemical Processes on and Near the Seafloor. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	17
27	High throughput shotgun sequencing of eRNA reveals taxonomic and derived functional shifts across a benthic productivity gradient. <i>Molecular Ecology</i> , 2021, 30, 3023-3039.	2.0	16
28	Uncovering diversity and metabolic spectrum of animals in dead zone sediments. <i>Communications Biology</i> , 2020, 3, 106.	2.0	16
29	High spatiotemporal variability of methane concentrations challenges estimates of emissions across vegetated coastal ecosystems. <i>Global Change Biology</i> , 2022, 28, 4308-4322.	4.2	16
30	Zebra Mussel Holobionts Fix and Recycle Nitrogen in Lagoon Sediments. <i>Frontiers in Microbiology</i> , 2020, 11, 610269.	1.5	15
31	In situ characterization of benthic fluxes and denitrification efficiency in a newly re-established mussel farm. <i>Science of the Total Environment</i> , 2021, 782, 146853.	3.9	15
32	Oxygenâ€deficient water zones in the Baltic Sea promote uncharacterized Hg methylating microorganisms in underlying sediments. <i>Limnology and Oceanography</i> , 2022, 67, 135-146.	1.6	15
33	Low Abundance of Methanotrophs in Sediments of Shallow Boreal Coastal Zones With High Water Methane Concentrations. <i>Frontiers in Microbiology</i> , 2020, 11, 1536.	1.5	14
34	Depicting Temporal, Functional, and Phylogenetic Patterns in Estuarine Diazotrophic Communities from Environmental DNA and RNA. <i>Microbial Ecology</i> , 2021, 81, 36-51.	1.4	14
35	Functional Performance of Three Invasive <i>Marenzelleria</i> Species Under Contrasting Ecological Conditions Within the Baltic Sea. <i>Estuaries and Coasts</i> , 2018, 41, 1766-1781.	1.0	12
36	Methane Emissions From Nordic Seagrass Meadow Sediments. <i>Frontiers in Marine Science</i> , 2022, 8, .	1.2	12

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37	Sulfide oxidation in deep Baltic Sea sediments upon oxygenation and colonization by macrofauna. <i>Marine Biology</i> , 2019, 166, 1.	0.7	11
38	Intracellular nitrate storage by diatoms can be an important nitrogen pool in freshwater and marine ecosystems. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	11
39	Enhanced benthic nitrous oxide and ammonium production after natural oxygenation of long-term anoxic sediments. <i>Limnology and Oceanography</i> , 2022, 67, 419-433.	1.6	10
40	Fueling of a marine-terrestrial ecosystem by a major seabird colony. <i>Scientific Reports</i> , 2020, 10, 15455.	1.6	9
41	Spatiotemporal patterns of N <sub>2</sub> fixation in coastal waters derived from rate measurements and remote sensing. <i>Biogeosciences</i> , 2021, 18, 1857-1871.	1.3	9
42	Denitrification responses to increasing cadmium exposure in Baltic Sea sediments. <i>Aquatic Toxicology</i> , 2019, 217, 105328.	1.9	8
43	Organic Contaminant Mixture Significantly Changes Microbenthic Community Structure and Increases the Expression of PAH Degradation Genes. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	8
44	A bioturbator, a holobiont, and a vector: The multifaceted role of <i>Chironomus plumosus</i> in shaping N-cycling. <i>Freshwater Biology</i> , 2021, 66, 1036-1048.	1.2	8
45	Cyanophage Diversity and Community Structure in Dead Zone Sediments. <i>MSphere</i> , 2021, 6, .	1.3	8
46	Partitioning benthic nitrogen cycle processes among three common macrofauna holobionts. <i>Biogeochemistry</i> , 2022, 157, 193-213.	1.7	7
47	A microsensor-based method for measuring respiration of individual nematodes. <i>Methods in Ecology and Evolution</i> , 2021, 12, 1841-1847.	2.2	4
48	Sediment Remediation Using Activated Carbon: Effects of Sorbent Particle Size and Resuspension on Sequestration of Metals and Organic Contaminants. <i>Environmental Toxicology and Chemistry</i> , 2022, , .	2.2	3
49	High methane emissions from an anoxic fjord driven by mixing and oxygenation. <i>Limnology and Oceanography Letters</i> , 0, , .	1.6	3