

# Alex Enrich-Prast

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

2,824  
citations

304602

22  
h-index

197736

49  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4107  
citing authors

#	ARTICLE	IF	CITATIONS
1	Freshwater Methane Emissions Offset the Continental Carbon Sink. <i>Science</i> , 2011, 331, 50-50.	6.0	1,159
2	Large emissions from floodplain trees close the Amazon methane budget. <i>Nature</i> , 2017, 552, 230-234.	13.7	204
3	Methane Emissions from Pantanal, South America, during the Low Water Season: Toward More Comprehensive Sampling. <i>Environmental Science &amp; Technology</i> , 2010, 44, 5450-5455.	4.6	178
4	Large CO <sub>2</sub> disequilibria in tropical lakes. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	1.9	94
5	Methane Carbon Supports Aquatic Food Webs to the Fish Level. <i>PLoS ONE</i> , 2012, 7, e42723.	1.1	81
6	Extensive processing of sediment pore water dissolved organic matter during anoxic incubation as observed by high-field mass spectrometry (FTICR-MS). <i>Water Research</i> , 2018, 129, 252-263.	5.3	78
7	Methanogenic pathway, <sup>13</sup> C isotope fractionation, and archaeal community composition in the sediment of two clear-water lakes of Amazonia. <i>Limnology and Oceanography</i> , 2010, 55, 689-702.	1.6	68
8	Microbial diversity and community structure across environmental gradients in Bransfield Strait, Western Antarctic Peninsula. <i>Frontiers in Microbiology</i> , 2014, 5, 647.	1.5	63
9	Complementary pathways of dissolved organic carbon removal pathways in clear-water Amazonian ecosystems: photochemical degradation and bacterial uptake. <i>FEMS Microbiology Ecology</i> , 2006, 56, 8-17.	1.3	61
10	Influence of Hydrological Pulse on Bacterial Growth and DOC Uptake in a Clear-Water Amazonian Lake. <i>Microbial Ecology</i> , 2006, 52, 334-344.	1.4	60
11	Response of the methanogenic microbial communities in Amazonian oxbow lake sediments to desiccation stress. <i>Environmental Microbiology</i> , 2014, 16, 1682-1694.	1.8	60
12	Chemodiversity of dissolved organic matter in the Amazon Basin. <i>Biogeosciences</i> , 2016, 13, 4279-4290.	1.3	53
13	Do models of organic carbon mineralization extrapolate to warmer tropical sediments?. <i>Limnology and Oceanography</i> , 2014, 59, 48-54.	1.6	52
14	Isolation, cultivation and genomic analysis of magnetosome biomineralization genes of a new genus of South-seeking magnetotactic cocci within the Alphaproteobacteria. <i>Frontiers in Microbiology</i> , 2014, 5, 72.	1.5	47
15	Seasonal changes of dissolved organic carbon photo-oxidation rates in a tropical humic lagoon: the role of rainfall as a major regulator. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 1266-1272.	0.7	45
16	Molecular differences between water column and sediment pore water SPE-DOM in ten Swedish boreal lakes. <i>Water Research</i> , 2020, 170, 115320.	5.3	45
17	Structure and function of methanogenic microbial communities in sediments of Amazonian lakes with different water types. <i>Environmental Microbiology</i> , 2016, 18, 5082-5100.	1.8	41
18	Dark Carbon Fixation: An Important Process in Lake Sediments. <i>PLoS ONE</i> , 2013, 8, e65813.	1.1	38

#	ARTICLE	IF	CITATIONS
19	Distance-Decay and Taxa-Area Relationships for Bacteria, Archaea and Methanogenic Archaea in a Tropical Lake Sediment. PLoS ONE, 2014, 9, e110128.	1.1	37
20	Long-Term CO <sub>2</sub> Variability in Two Shallow Tropical Lakes Experiencing Episodic Eutrophication and Acidification Events. Ecosystems, 2010, 13, 382-392.	1.6	34
21	Extreme Emission of N <sub>2</sub> O from Tropical Wetland Soil (Pantanal, South America). Frontiers in Microbiology, 2012, 3, 433.	1.5	29
22	Spatiotemporal dynamics of marine bacterial and archaeal communities in surface waters off the northern Antarctic Peninsula. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 149, 150-160.	0.6	23
23	Effect of Campylobacter on NH <sub>4</sub> , DOC Fluxes, O <sub>2</sub> Uptake and Bacterioplankton Production in Experimental Microcosms with Sediment-Water Interface of an Amazonian Lake Impacted by Bauxite Tailings. International Review of Hydrobiology, 2003, 88, 167-178.	0.5	21
24	Substrate influence and temporal changes on periphytic biomass accrual and metabolism in a tropical humic lagoon. Limnologica, 2009, 39, 209-218.	0.7	21
25	Methanogenic pathway, <sup>13</sup> C isotope fractionation, and archaeal community composition in the sediment of two clear-water lakes of Amazonia. Limnology and Oceanography, 2010, 55, 689-702.	1.6	19
26	Nitrogen and phosphorus concentration of different structures of the aquatic macrophytes Eichhornia azurea Kunth and Scirpus cubensis Poepp & Kunth in relation to water level variation in Lagoa Infern�o (S�o Paulo, Brazil). Hydrobiologia, 1996, 328, 199-205.	1.0	18
27	Spatial versus Day-To-Day Within-Lake Variability in Tropical Floodplain Lake CH <sub>4</sub> Emissions – Developing Optimized Approaches to Representative Flux Measurements. PLoS ONE, 2015, 10, e0123319.	1.1	18
28	Structure, function and resilience to desiccation of methanogenic microbial communities in temporarily inundated soils of the Amazon rainforest (Cunia Reserve, Rondonia). Environmental Microbiology, 2019, 21, 1702-1717.	1.8	18
29	Evolution of nitrogen cycling in regrowing Amazonian rainforest. Scientific Reports, 2019, 9, 8538.	1.6	16
30	Synergistic control of CO <sub>2</sub> emissions by fish and nutrients in a humic tropical lake. Oecologia, 2012, 168, 839-847.	0.9	15
31	Radon-traced pore-water as a potential source of CO <sub>2</sub> and CH <sub>4</sub> to receding black and clear water environments in the Amazon Basin. Limnology and Oceanography Letters, 2018, 3, 375-383.	1.6	15
32	Metabolism and Gaseous Exchanges in Two Coastal Lagoons from Rio de Janeiro with Distinct Limnological Characteristics. Brazilian Archives of Biology and Technology, 2001, 44, 433-438.	0.5	14
33	Controls of Sediment Nitrogen Dynamics in Tropical Coastal Lagoons. PLoS ONE, 2016, 11, e0155586.	1.1	12
34	Bioremediation of nitrogenous compounds from oilfield wastewater by <i>Ulva lactuca</i> (Chlorophyta). Bioremediation Journal, 2016, 20, 1-9.	1.0	10
35	Non-flooded riparian Amazon trees are a regionally significant methane source. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200446.	1.6	10
36	Boosting manure biogas production with the application of pretreatments: A meta-analysis. Journal of Cleaner Production, 2022, 362, 132292.	4.6	10

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37	Whole Ecosystem Evidence of Eutrophication Enhancement by Wetland Dredging in a Shallow Tropical Lake. <i>Estuaries and Coasts</i> , 2009, 32, 654-660.	1.0	9
38	Experimental evidence of nitrogen control on pCO <sub>2</sub> in phosphorus-enriched humic and clear coastal lagoon waters. <i>Frontiers in Microbiology</i> , 2013, 4, 11.	1.5	7
39	Sediment Denitrification in Two Contrasting Tropical Shallow Lagoons. <i>Estuaries and Coasts</i> , 2016, 39, 657-663.	1.0	7
40	Simultaneous measurements of dark carbon fixation and bacterial production in lake sediment. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 298-303.	1.0	6
41	Low Diffusive Methane Emissions From the Main Channel of a Large Amazonian Run-of-the-River Reservoir Attributed to High Methane Oxidation. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	6
42	Tropical forests as drivers of lake carbon burial. <i>Nature Communications</i> , 2022, 13, .	5.8	5
43	Microbial Succession under Freeze-Thaw Events and Its Potential for Hydrocarbon Degradation in Nutrient-Amended Antarctic Soil. <i>Microorganisms</i> , 2021, 9, 609.	1.6	4
44	Technologies for Environmental Safety Application of Digestate as Biofertilizer. <i>Ecological Engineering and Environmental Technology</i> , 2022, 23, 106-119.	0.3	3
45	Nitrogen fixation and denitrification in Lagoa Imboacica, a coastal lagoon of Rio de Janeiro State, Brazil. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1998, 26, 1412-1417.	0.1	2
46	The Influence of Bauxite Tailings on the Growth and Development of <i>Oryza glumaepatula</i> in an Amazonian Lake. <i>Hydrobiologia</i> , 2006, 563, 87-97.	1.0	2
47	Short-term spatial and temporal variation of sediment oxygen dynamics in a tropical tidal salt flat. <i>Wetlands Ecology and Management</i> , 2011, 19, 389-395.	0.7	2
48	EDGE INFLUENCE OVER FUNCTIONAL TREE TRAITS IN AN ATLANTIC FOREST REMNANT. <i>Revista Arvore</i> , 0, 46, .	0.5	1