Nathan Barros

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8020260/publications.pdf

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43	2,797	257450	289244
papers	citations	24 h-index	40 g-index

44	44	44	2864
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agricultural activity enhances CO2 and CH4 emissions after sediment rewetting in a tropical semiarid reservoir. Hydrobiologia, 2022, 849, 3979-3993.	2.0	4
2	Sublethal effects of environmental concentrations of caffeine on a neotropical freshwater fish. Ecotoxicology, 2022, 31, 161-167.	2.4	4
3	Cross-continental importance of CH4 emissions from dry inland-waters. Science of the Total Environment, 2022, 814, 151925.	8.0	13
4	Reducing adverse impacts of Amazon hydropower expansion. Science, 2022, 375, 753-760.	12.6	60
5	Out of gas: re-flooding does not boost carbon emissions from drawdown areas in semiarid reservoirs after prolonged droughts. Aquatic Sciences, 2022, 84, 1.	1.5	3
6	Floating solar power could help fight climate change â€" letâ€™s get it right. Nature, 2022, 606, 246-249.	27.8	27
7	Hotspots of Diffusive CO₂ and CH₄ Emission From Tropical Reservoirs Shift Through Time. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006014.	3.0	14
8	Temporal and Spatial Variability of Micropollutants in a Brazilian Urban River. Archives of Environmental Contamination and Toxicology, 2021, 81, 142-154.	4.1	10
9	Spatially Resolved Measurements in Tropical Reservoirs Reveal Elevated Methane Ebullition at River Inflows and at High Productivity. Global Biogeochemical Cycles, 2021, 35, e2020GB006717.	4.9	15
10	Micropollutants in four Brazilian water reservoirs. Limnologica, 2021, 90, 125902.	1.5	2
11	A global trend of caffeine consumption over time and related-environmental impacts. Environmental Pollution, 2020, 256, 113343.	7.5	57
12	Hydropeaking Operations of Two Run-of-River Mega-Dams Alter Downstream Hydrology of the Largest Amazon Tributary. Frontiers in Environmental Science, 2020, 8, .	3.3	31
13	Better assessments of greenhouse gas emissions from global fish ponds needed to adequately evaluate aquaculture footprint. Science of the Total Environment, 2020, 748, 141247.	8.0	35
14	Comparing methane ebullition variability across space and time in a Brazilian reservoir. Limnology and Oceanography, 2020, 65, 1623-1634.	3.1	32
15	Global CO2 emissions from dry inland waters share common drivers across ecosystems. Nature Communications, 2020, 11, 2126.	12.8	73
16	Sediment drying-rewetting cycles enhance greenhouse gas emissions, nutrient and trace element release, and promote water cytogenotoxicity. PLoS ONE, 2020, 15, e0231082.	2.5	18
17	Carbon dioxide emission from drawdown areas of a Brazilian reservoir is linked to surrounding land cover. Aquatic Sciences, 2019, 81, 1.	1.5	25
18	Environmental Risk of Metal Contamination in Sediments of Tropical Reservoirs. Bulletin of Environmental Contamination and Toxicology, 2019, 103, 292-301.	2.7	10

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19	Reducing greenhouse gas emissions of Amazon hydropower with strategic dam planning. Nature Communications, 2019, 10, 4281.	12.8	126
20	Global regulation of methane emission from natural lakes. Scientific Reports, 2019, 9, 255.	3.3	59
21	Seasonal and diel variation in greenhouse gas emissions from an urban pond and its major drivers. Limnology and Oceanography, 2019, 64, 2129-2139.	3.1	70
22	Limnological effects of a large Amazonian run-of-river dam on the main river and drowned tributary valleys. Scientific Reports, 2019, 9, 16846.	3.3	30
23	Far-reaching cytogenotoxic effects of mine waste from the FundÃ£o dam disaster in Brazil. Chemosphere, 2019, 215, 753-757.	8.2	46
24	Spatially Resolved Measurements of CO₂ and CH₄ Concentration and Gas-Exchange Velocity Highly Influence Carbon-Emission Estimates of Reservoirs. Environmental Science & Technology, 2018, 52, 607-615.	10.0	65
25	Greenhouse Gas Emissions from Freshwater Reservoirs: What Does the Atmosphere See?. Ecosystems, 2018, 21, 1058-1071.	3.4	145
26	Extreme drought boosts CO₂ and CH₄ emissions from reservoir drawdown areas. Inland Waters, 2018, 8, 329-340.	2.2	44
27	Extreme floods increase CO₂ outgassing from a large Amazonian river. Limnology and Oceanography, 2017, 62, 989-999.	3.1	37
28	Cross continental increase in methane ebullition under climate change. Nature Communications, 2017, 8, 1682.	12.8	146
29	Significant changes in water pCO2 caused by turbulence from waterfalls. Limnologica, 2017, 62, 1-4.	1.5	12
30	High Primary Production Contrasts with Intense Carbon Emission in a Eutrophic Tropical Reservoir. Frontiers in Microbiology, 2016, 7, 717.	3.5	63
31	Greenhouse Gas Emissions from Reservoir Water Surfaces: A New Global Synthesis. BioScience, 2016, 66, 949-964.	4.9	564
32	Phosphorus transport by the largest Amazon tributary (Madeira River, Brazil) and its sensitivity to precipitation and damming. Inland Waters, 2015, 5, 275-282.	2.2	17
33	Estimating greenhouse gas emissions from future Amazonian hydroelectric reservoirs. Environmental Research Letters, 2015, 10, 124019.	5.2	65
34	Viruses and bacteria in floodplain lakes along a major Amazon tributary respond to distance to the Amazon River. Frontiers in Microbiology, 2015, 6, 158.	3.5	17
35	Carbon emission as a function of energy generation in hydroelectric reservoirs in Brazilian dry tropical biome. Energy Policy, 2013, 58, 109-116.	8.8	42
36	Emissions from Amazonian dams. Nature Climate Change, 2013, 3, 1005-1005.	18.8	15

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37	Hydroelectric carbon sequestration. Nature Geoscience, 2012, 5, 838-840.	12.9	64
38	Greenhouse Gas Emissions from Hydroelectric Reservoirs: What Knowledge Do We Have and What is Lacking?. , 2012, , .		12
39	Carbon emission from hydroelectric reservoirs linked to reservoir age and latitude. Nature Geoscience, 2011, 4, 593-596.	12.9	600
40	Variability of carbon dioxide flux from tropical (Cerrado) hydroelectric reservoirs. Aquatic Sciences, 2010, 72, 283-293.	1.5	92
41	Virus-Bacterium Coupling Driven by both Turbidity and Hydrodynamics in an Amazonian Floodplain Lake. Applied and Environmental Microbiology, 2010, 76, 7194-7201.	3.1	22
42	Water pollution: one of the main Limnology challenges in the Anthropocene. Acta Limnologica Brasiliensia, 0, 31, .	0.4	10
43	Not all viruses in nature are human enemies: a perspective on aquatic virus ecology in Brazil. Acta Limnologica Brasiliensia, 0, 32, .	0.4	1