Nicholas D Ward

List of Publications by Year
in descending order

65 papers	2,569 citations	331670 21 h-index	206112 48 g-index
77 all docs	77 docs citations	77 times ranked	3022 citing authors

#	Article	IF	Citations
1	Degradation of terrestrially derived macromolecules in the Amazon River. Nature Geoscience, 2013, 6, 530-533.	12.9	300
2	Molecular-level changes of dissolved organic matter along the Amazon River-to-ocean continuum. Marine Chemistry, 2015, 177, 218-231.	2.3	206
3	Where Carbon Goes When Water Flows: Carbon Cycling across the Aquatic Continuum. Frontiers in Marine Science, 2017, 4, .	2.5	197
4	Performance of Landsat-8 and Sentinel-2 surface reflectance products for river remote sensing retrievals of chlorophyll-a and turbidity. Remote Sensing of Environment, 2019, 224, 104-118.	11.0	195
5	Representing the function and sensitivity of coastal interfaces in Earth system models. Nature Communications, 2020, 11, 2458.	12.8	153
6	Fate of the Amazon River dissolved organic matter in the tropical Atlantic Ocean. Global Biogeochemical Cycles, 2015, 29, 677-690.	4.9	148
7	Positive priming of terrestrially derived dissolved organic matter in a freshwater microcosm system. Geophysical Research Letters, 2015, 42, 5460-5467.	4.0	100
8	Carbon Dioxide Emissions along the Lower Amazon River. Frontiers in Marine Science, 2017, 4, .	2.5	100
9	The reactivity of plantâ€derived organic matter and the potential importance of priming effects along the lower Amazon River. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1522-1539.	3.0	94
10	Bacterial Biogeography across the Amazon River-Ocean Continuum. Frontiers in Microbiology, 2017, 8, 882.	3.5	75
11	The compositional evolution of dissolved and particulate organic matter along the lower Amazon Riverâ€"Ã“bidos to the ocean. Marine Chemistry, 2015, 177, 244-256.	2.3	73
12	Assessing chromophoric dissolved organic matter (CDOM) distribution, stocks, and fluxes in Apalachicola Bay using combined field, VIIRS ocean color, and model observations. Remote Sensing of Environment, 2017, 191, 359-372.	11.0	63
13	Oxidative mitigation of aquatic methane emissions in large Amazonian rivers. Global Change Biology, 2016, 22, 1075-1085.	9.5	61
14	The black carbon cycle and its role in the Earth system. Nature Reviews Earth & Environment, 2022, 3, 516-532.	29.7	52
15	Metagenomic and metatranscriptomic inventories of the lower Amazon River, May 2011. Microbiome, 2015, 3, 39.	11.1	47
16	Marked isotopic variability within and between the Amazon River and marine dissolved black carbon pools. Nature Communications, 2019, 10, 4018.	12.8	47
17	Seasonal and spatial variability of dissolved organic matter composition in the lower Amazon River. Biogeochemistry, 2016, 131, 281-302.	3.5	40
18	Temporal variation in river nutrient and dissolved lignin phenol concentrations and the impact of storm events on nutrient loading to Hood Canal, Washington, USA. Biogeochemistry, 2012, 111, 629-645.	3.5	36

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19	Using CDOM optical properties for estimating DOC concentrations and pCO₂ in the Lower Amazon River. Optics Express, 2018, 26, A657.	3.4	35
20	Velocityâ€amplified microbial respiration rates in the lower Amazon River. Limnology and Oceanography Letters, 2018, 3, 265-274.	3.9	31
21	Lipoxygenase-induced autoxidative degradation of terrestrial particulate organic matter in estuaries: A widespread process enhanced at high and low latitude. Organic Geochemistry, 2018, 115, 78-92.	1.8	22
22	Processes and mechanisms of coastal woodyâ€plant mortality. Global Change Biology, 2022, 28, 5881-5900.	9.5	22
23	Impact of Wetland Decline on Decreasing Dissolved Organic Carbon Concentrations along the Mississippi River Continuum. Frontiers in Marine Science, 2017, 3, .	2.5	21
24	Constrained tree growth and gas exchange of seawaterâ€exposed forests in the Pacific Northwest, USA. Journal of Ecology, 2019, 107, 2541-2552.	4.0	21
25	Marine microbial community responses related to wetland carbon mobilization in the coastal zone. Limnology and Oceanography Letters, 2019, 4, 25-33.	3.9	21
26	Ecohydrologic processes and soil thickness feedbacks control limestone-weathering rates in a karst landscape. Chemical Geology, 2019, 527, 118774.	3.3	20
27	Spatial gradients in the characteristics of soil-carbon fractions are associated with abiotic features but not microbial communities. Biogeosciences, 2019, 16, 3911-3928.	3.3	19
28	Dissolved Organic and Inorganic Carbon Flow Paths in an Amazonian Transitional Forest. Frontiers in Marine Science, 2016, 3, .	2.5	17
29	Enhanced Aquatic Respiration Associated With Mixing of Clearwater Tributary and Turbid Amazon River Waters. Frontiers in Earth Science, 2019, 7, .	1.8	17
30	Environmental Impacts of Dam Reservoir Filling in the East Amazon. Frontiers in Water, 2020, 2, .	2.3	17
31	Longitudinal Gradients in Tree Stem Greenhouse Gas Concentrations Across Six Pacific Northwest Coastal Forests. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1401-1412.	3.0	16
32	Evaluation of Primary Production in the Lower Amazon River Based on a Dissolved Oxygen Stable Isotopic Mass Balance. Frontiers in Marine Science, 2017, 4, .	2.5	15
33	Mechanisms of Organic Matter Export in Estuaries with Contrasting Carbon Sources. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3168-3188.	3.0	15
34	Floodplain Inundation and Salinization From a Recently Restored Firstâ€Order Tidal Stream. Water Resources Research, 2020, 56, e2019WR026850.	4.2	15
35	Patterns of Bacterial and Archaeal Gene Expression through the Lower Amazon River. Frontiers in Marine Science, 2017, 4, .	2.5	14
36	CO2 partial pressure and fluxes in the Amazon River plume using in situ and remote sensing data. Continental Shelf Research, 2021, 215, 104348.	1.8	14

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37	Mass balance implies Holocene development of a low-relief karst patterned landscape. Chemical Geology, 2019, 527, 118782.	3.3	13
38	Carbon dioxide (CO₂) concentrations and emission in the newly constructed Belo Monte hydropower complex in the Xingu River, Amazonia. Biogeosciences, 2019, 16, 3527-3542.	3.3	13
39	Initiation and Development of Wetlands in Southern Florida Karst Landscape Associated With Accumulation of Organic Matter and Vegetation Evolution. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1604-1617.	3.0	12
40	Metabolic Profiling Reveals Biochemical Pathways Responsible for Eelgrass Response to Elevated CO2 and Temperature. Scientific Reports, 2020, 10, 4693.	3.3	12
41	The influence of increasing atmospheric <scp>CO₂</scp>, temperature, and vapor pressure deficit on seawaterâ€induced tree mortality. New Phytologist, 2022, 235, 1767-1779.	7.3	12
42	Impacts of Hurricane Disturbance on Water Quality across the Aquatic Continuum of a Blackwater River to Estuary Complex. Journal of Marine Science and Engineering, 2020, 8, 412.	2.6	11
43	Biogeochemical control points of connectivity between a tidal creek and its floodplain. Limnology and Oceanography Letters, 2021, 6, 134-142.	3.9	11
44	Virioplankton Assemblage Structure in the Lower River and Ocean Continuum of the Amazon. MSphere, 2017, 2, .	2.9	10
45	Declining carbohydrate content of Sitka-spruce treesdying from seawater exposure. Plant Physiology, 2021, 185, 1682-1696.	4.8	10
46	Seawater exposure causes hydraulic damage in dying Sitka-spruce trees. Plant Physiology, 2021, 187, 873-885.	4.8	10
47	The experimental flow to the Colorado River delta: Effects on carbon mobilization in a dry watercourse. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 607-627.	3.0	9
48	Seasonal Trends in Surface pCO2 and Air-Sea CO2 Fluxes in Apalachicola Bay, Florida, From VIIRS Ocean Color. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2466-2484.	3.0	9
49	Soil Respiration Variability and Correlation Across a Wide Range of Temporal Scales. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3672-3683.	3.0	9
50	Pathways for Methane Emissions and Oxidation that Influence the Net Carbon Balance of a Subtropical Cypress Swamp. Frontiers in Earth Science, 2020, 8, .	1.8	9
51	Coastal Forest Seawater Exposure Increases Stem Methane Concentration. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005915.	3.0	8
52	Changes in carbon and nitrogen metabolism during seawater-induced mortality of Picea sitchensis trees. Tree Physiology, 2021, 41, 2326-2340.	3.1	8
53	Tree growth, transpiration, and water-use efficiency between shoreline and upland red maple (Acer) Tj ETQq1 1 0.784314 rgBT /Overl	4.8	7
54	Small streams dominate US tidal reaches and will be disproportionately impacted by sea-level rise. Science of the Total Environment, 2021, 753, 141944.	8.0	7

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55	Antecedent conditions determine the biogeochemical response of coastal soils to seawater exposure. Soil Biology and Biochemistry, 2021, 153, 108104.	8.8	7
56	Editorial: The Role of Priming in Terrestrial and Aquatic Ecosystems. Frontiers in Earth Science, 2019, 7, .	1.8	6
57	Low Diffusive Methane Emissions From the Main Channel of a Large Amazonian Run-of-the-River Reservoir Attributed to High Methane Oxidation. Frontiers in Environmental Science, 2021, 9, .	3.3	6
58	The Amazon Riverâ€™s Ecosystem: Where Land Meets the Sea. Eos, 2018, 99, .	0.1	6
59	Seasonal and Daily Variation of Hydrodynamic Conditions in the Amazon River Mouth: Influence of Discharge and Tide on Flow Velocity. Journal of Coastal Research, 2021, 37, .	0.3	4
60	Severe declines in hydraulic capacity and associated carbon starvation drive mortality in seawater exposed Sitka-spruce (Picea sitchensis) trees. Environmental Research Communications, 2022, 4, 035005.	2.3	4
61	Optical Classification of Lower Amazon Waters Based on In Situ Data and Sentinel-3 Ocean and Land Color Instrument Imagery. Remote Sensing, 2021, 13, 3057.	4.0	3
62	Editorial: Integrative Research on Organic Matter Cycling across Aquatic Gradients. Frontiers in Marine Science, 2017, 4, .	2.5	2
63	Seasonal Changes in the Drivers of Water Physico-Chemistry Variability of a Small Freshwater Tidal River. Frontiers in Marine Science, 2021, 8, .	2.5	2
64	Methane Plume Emissions Associated With Puget Sound Faults in the Cascadia Forearc. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	1
65	INSIGHTS ON INUNDATION AND HYDROBIOGEOCHEMISTRY IN A FIRST-ORDER TIDAL STREAM FLOODPLAIN. , 2019, , .		0