

# Nicholas D Ward

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,569  
citations

377584

21  
h-index

232693

48  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3380  
citing authors

#	ARTICLE	IF	CITATIONS
1	Severe declines in hydraulic capacity and associated carbon starvation drive mortality in seawater exposed Sitka-spruce ( <i>Picea sitchensis</i> ) trees. <i>Environmental Research Communications</i> , 2022, 4, 035005.	0.9	4
2	Methane Plume Emissions Associated With Puget Sound Faults in the Cascadia Forearc. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	1
3	The influence of increasing atmospheric $\text{CO}_2$ , temperature, and vapor pressure deficit on seawater-induced tree mortality. <i>New Phytologist</i> , 2022, 235, 1767-1779.	3.5	12
4	Processes and mechanisms of coastal woody plant mortality. <i>Global Change Biology</i> , 2022, 28, 5881-5900.	4.2	22
5	The black carbon cycle and its role in the Earth system. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 516-532.	12.2	52
6	Small streams dominate US tidal reaches and will be disproportionately impacted by sea-level rise. <i>Science of the Total Environment</i> , 2021, 753, 141944.	3.9	7
7	Seasonal and Daily Variation of Hydrodynamic Conditions in the Amazon River Mouth: Influence of Discharge and Tide on Flow Velocity. <i>Journal of Coastal Research</i> , 2021, 37, .	0.1	4
8	Declining carbohydrate content of Sitka-spruce trees dying from seawater exposure. <i>Plant Physiology</i> , 2021, 185, 1682-1696.	2.3	10
9	CO <sub>2</sub> partial pressure and fluxes in the Amazon River plume using in situ and remote sensing data. <i>Continental Shelf Research</i> , 2021, 215, 104348.	0.9	14
10	Coastal Forest Seawater Exposure Increases Stem Methane Concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005915.	1.3	8
11	Antecedent conditions determine the biogeochemical response of coastal soils to seawater exposure. <i>Soil Biology and Biochemistry</i> , 2021, 153, 108104.	4.2	7
12	Biogeochemical control points of connectivity between a tidal creek and its floodplain. <i>Limnology and Oceanography Letters</i> , 2021, 6, 134-142.	1.6	11
13	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
14	Changes in carbon and nitrogen metabolism during seawater-induced mortality of <i>Picea sitchensis</i> trees. <i>Tree Physiology</i> , 2021, 41, 2326-2340.	1.4	8
15	Seasonal Changes in the Drivers of Water Physico-Chemistry Variability of a Small Freshwater Tidal River. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	2
16	Seawater exposure causes hydraulic damage in dying Sitka-spruce trees. <i>Plant Physiology</i> , 2021, 187, 873-885.	2.3	10
17	Optical Classification of Lower Amazon Waters Based on In Situ Data and Sentinel-3 Ocean and Land Color Instrument Imagery. <i>Remote Sensing</i> , 2021, 13, 3057.	1.8	3
18	Tree growth, transpiration, and water-use efficiency between shoreline and upland red maple ( <i>Acer</i> )	1.9	10

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19	Representing the function and sensitivity of coastal interfaces in Earth system models. <i>Nature Communications</i> , 2020, 11, 2458.	5.8	153
20	Floodplain Inundation and Salinization From a Recently Restored First-Order Tidal Stream. <i>Water Resources Research</i> , 2020, 56, e2019WR026850.	1.7	15
21	Environmental Impacts of Dam Reservoir Filling in the East Amazon. <i>Frontiers in Water</i> , 2020, 2, .	1.0	17
22	Metabolic Profiling Reveals Biochemical Pathways Responsible for Eelgrass Response to Elevated CO <sub>2</sub> and Temperature. <i>Scientific Reports</i> , 2020, 10, 4693.	1.6	12
23	Impacts of Hurricane Disturbance on Water Quality across the Aquatic Continuum of a Blackwater River to Estuary Complex. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 412.	1.2	11
24	Pathways for Methane Emissions and Oxidation that Influence the Net Carbon Balance of a Subtropical Cypress Swamp. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	9
25	Ecohydrologic processes and soil thickness feedbacks control limestone-weathering rates in a karst landscape. <i>Chemical Geology</i> , 2019, 527, 118774.	1.4	20
26	Mass balance implies Holocene development of a low-relief karst patterned landscape. <i>Chemical Geology</i> , 2019, 527, 118782.	1.4	13
27	Carbon dioxide (CO <sub>2</sub> ) concentrations and emission in the newly constructed Belo Monte hydropower complex in the Xingu River, Amazonia. <i>Biogeosciences</i> , 2019, 16, 3527-3542.	1.3	13
28	Mechanisms of Organic Matter Export in Estuaries with Contrasting Carbon Sources. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3168-3188.	1.3	15
29	Spatial gradients in the characteristics of soil-carbon fractions are associated with abiotic features but not microbial communities. <i>Biogeosciences</i> , 2019, 16, 3911-3928.	1.3	19
30	Marked isotopic variability within and between the Amazon River and marine dissolved black carbon pools. <i>Nature Communications</i> , 2019, 10, 4018.	5.8	47
31	Initiation and Development of Wetlands in Southern Florida Karst Landscape Associated With Accumulation of Organic Matter and Vegetation Evolution. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1604-1617.	1.3	12
32	Longitudinal Gradients in Tree Stem Greenhouse Gas Concentrations Across Six Pacific Northwest Coastal Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1401-1412.	1.3	16
33	Constrained tree growth and gas exchange of seawater-exposed forests in the Pacific Northwest, USA. <i>Journal of Ecology</i> , 2019, 107, 2541-2552.	1.9	21
34	Enhanced Aquatic Respiration Associated With Mixing of Clearwater Tributary and Turbid Amazon River Waters. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	17
35	Performance of Landsat-8 and Sentinel-2 surface reflectance products for river remote sensing retrievals of chlorophyll-a and turbidity. <i>Remote Sensing of Environment</i> , 2019, 224, 104-118.	4.6	195
36	Editorial: The Role of Priming in Terrestrial and Aquatic Ecosystems. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	6

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37	Soil Respiration Variability and Correlation Across a Wide Range of Temporal Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3672-3683.	1.3	9
38	Marine microbial community responses related to wetland carbon mobilization in the coastal zone. <i>Limnology and Oceanography Letters</i> , 2019, 4, 25-33.	1.6	21
39	INSIGHTS ON INUNDATION AND HYDROBIOGEOCHEMISTRY IN A FIRST-ORDER TIDAL STREAM FLOODPLAIN. , 2019, , .		0
40	Velocity-Enhanced microbial respiration rates in the lower Amazon River. <i>Limnology and Oceanography Letters</i> , 2018, 3, 265-274.	1.6	31
41	Lipoxygenase-induced autoxidative degradation of terrestrial particulate organic matter in estuaries: A widespread process enhanced at high and low latitude. <i>Organic Geochemistry</i> , 2018, 115, 78-92.	0.9	22
42	Using CDOM optical properties for estimating DOC concentrations and $pCO_2$ in the Lower Amazon River. <i>Optics Express</i> , 2018, 26, A657.	1.7	35
43	Seasonal Trends in Surface $pCO_2$ and Air-Sea $CO_2$ Fluxes in Apalachicola Bay, Florida, From VIIRS Ocean Color. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2466-2484.	1.3	9
44	The Amazon River's Ecosystem: Where Land Meets the Sea. <i>Eos</i> , 2018, 99, .	0.1	6
45	Assessing chromophoric dissolved organic matter (CDOM) distribution, stocks, and fluxes in Apalachicola Bay using combined field, VIIRS ocean color, and model observations. <i>Remote Sensing of Environment</i> , 2017, 191, 359-372.	4.6	63
46	The experimental flow to the Colorado River delta: Effects on carbon mobilization in a dry watercourse. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 607-627.	1.3	9
47	Virioplankton Assemblage Structure in the Lower River and Ocean Continuum of the Amazon. <i>MSphere</i> , 2017, 2, .	1.3	10
48	Impact of Wetland Decline on Decreasing Dissolved Organic Carbon Concentrations along the Mississippi River Continuum. <i>Frontiers in Marine Science</i> , 2017, 3, .	1.2	21
49	Where Carbon Goes When Water Flows: Carbon Cycling across the Aquatic Continuum. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	197
50	Evaluation of Primary Production in the Lower Amazon River Based on a Dissolved Oxygen Stable Isotopic Mass Balance. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	15
51	Carbon Dioxide Emissions along the Lower Amazon River. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	100
52	Editorial: Integrative Research on Organic Matter Cycling across Aquatic Gradients. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	2
53	Patterns of Bacterial and Archaeal Gene Expression through the Lower Amazon River. <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	14
54	Bacterial Biogeography across the Amazon River-Ocean Continuum. <i>Frontiers in Microbiology</i> , 2017, 8, 882.	1.5	75

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55	Dissolved Organic and Inorganic Carbon Flow Paths in an Amazonian Transitional Forest. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	17
56	Oxidative mitigation of aquatic methane emissions in large Amazonian rivers. <i>Global Change Biology</i> , 2016, 22, 1075-1085.	4.2	61
57	The reactivity of plant-derived organic matter and the potential importance of priming effects along the lower Amazon River. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1522-1539.	1.3	94
58	Seasonal and spatial variability of dissolved organic matter composition in the lower Amazon River. <i>Biogeochemistry</i> , 2016, 131, 281-302.	1.7	40
59	Positive priming of terrestrially derived dissolved organic matter in a freshwater microcosm system. <i>Geophysical Research Letters</i> , 2015, 42, 5460-5467.	1.5	100
60	Fate of the Amazon River dissolved organic matter in the tropical Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 677-690.	1.9	148
61	The compositional evolution of dissolved and particulate organic matter along the lower Amazon River—A bidos to the ocean. <i>Marine Chemistry</i> , 2015, 177, 244-256.	0.9	73
62	Molecular-level changes of dissolved organic matter along the Amazon River-to-ocean continuum. <i>Marine Chemistry</i> , 2015, 177, 218-231.	0.9	206
63	Metagenomic and metatranscriptomic inventories of the lower Amazon River, May 2011. <i>Microbiome</i> , 2015, 3, 39.	4.9	47
64	Degradation of terrestrially derived macromolecules in the Amazon River. <i>Nature Geoscience</i> , 2013, 6, 530-533.	5.4	300
65	Temporal variation in river nutrient and dissolved lignin phenol concentrations and the impact of storm events on nutrient loading to Hood Canal, Washington, USA. <i>Biogeochemistry</i> , 2012, 111, 629-645.	1.7	36