

Wilfred M Wollheim

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

7,515
citations

66343

42
h-index

88630

70
g-index

73
all docs

73
docs citations

73
times ranked

6919
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Frequency Concurrent Measurements in Watershed and Impaired Estuary Reveal Coupled DOC and Decoupled Nitrate Dynamics. <i>Estuaries and Coasts</i> , 2022, 45, 445-461.	2.2	0
2	Dominance of Diffusive Methane Emissions From Lowland Headwater Streams Promotes Oxidation and Isotopic Enrichment. <i>Frontiers in Environmental Science</i> , 2022, 9, .	3.3	5
3	Removal of Fecal Indicator Bacteria by River Networks. <i>Water (Switzerland)</i> , 2022, 14, 617.	2.7	1
4	Superlinear scaling of riverine biogeochemical function with watershed size. <i>Nature Communications</i> , 2022, 13, 1230.	12.8	9
5	Long-term ecological research and the COVID-19 anthropause: A window to understanding social ecological disturbance. <i>Ecosphere</i> , 2022, 13, e4019.	2.2	4
6	The Seasonality of In-Stream Nutrient Concentrations and Uptake in Arctic Headwater Streams in the Northern Foothills of Alaska's Brooks Range. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005949.	3.0	2
7	Spatial and temporal heterogeneity of methane ebullition in lowland headwater streams and the impact on sampling design. <i>Limnology and Oceanography</i> , 2021, 66, 4063-4076.	3.1	6
8	The overlooked role of diffuse household livestock production in nitrogen pollution at the watershed scale. <i>Journal of Cleaner Production</i> , 2020, 272, 122758.	9.3	16
9	Supply, Demand, and In-Stream Retention of Dissolved Organic Carbon and Nitrate During Storms in Mediterranean Forested Headwater Streams. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	24
10	Controls of Chloride Loading and Impairment at the River Network Scale in New England. <i>Journal of Environmental Quality</i> , 2018, 47, 839-847.	2.0	11
11	River network saturation concept: factors influencing the balance of biogeochemical supply and demand of river networks. <i>Biogeochemistry</i> , 2018, 141, 503-521.	3.5	96
12	Continental-scale decrease in net primary productivity in streams due to climate warming. <i>Nature Geoscience</i> , 2018, 11, 415-420.	12.9	99
13	The impact of flooding on aquatic ecosystem services. <i>Biogeochemistry</i> , 2018, 141, 439-461.	3.5	142
14	Influences of agricultural land use composition and distribution on nitrogen export from a subtropical watershed in China. <i>Science of the Total Environment</i> , 2018, 642, 21-32.	8.0	37
15	Lateral Marsh Edge Erosion as a Source of Sediments for Vertical Marsh Accretion. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2444-2465.	3.0	104
16	Stream tracer breakthrough curve decomposition into mass fractions: A simple framework to analyze and compare conservative solute transport processes. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 140-153.	2.0	16
17	A longer vernal window: the role of winter coldness and snowpack in driving spring transitions and lags. <i>Global Change Biology</i> , 2017, 23, 1610-1625.	9.5	57
18	Nitrification increases nitrogen export from a tropical river network. <i>Freshwater Science</i> , 2017, 36, 698-712.	1.8	15

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19	Aquatic Nitrate Retention at River Network Scales Across Flow Conditions Determined Using Nested In Situ Sensors. <i>Water Resources Research</i> , 2017, 53, 9740-9756.	4.2	57
20	A coupled terrestrial and aquatic biogeophysical model of the Upper Merrimack River watershed, New Hampshire, to inform ecosystem services evaluation and management under climate and land-cover change. <i>Ecology and Society</i> , 2017, 22, .	2.3	22
21	Longer thaw seasons increase nitrogen availability for leaching during fall in tundra soils. <i>Environmental Research Letters</i> , 2016, 11, 064013.	5.2	44
22	Dissolved organic carbon uptake in streams: A review and assessment of reach-scale measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2019-2029.	3.0	83
23	Baseflow physical characteristics differ at multiple spatial scales in stream networks across diverse biomes. <i>Landscape Ecology</i> , 2016, 31, 119-136.	4.2	15
24	An index to characterize the spatial distribution of land use within watersheds and implications for river network nutrient removal and export. <i>Geophysical Research Letters</i> , 2015, 42, 6688-6695.	4.0	37
25	Removal of terrestrial DOC in aquatic ecosystems of a temperate river network. <i>Geophysical Research Letters</i> , 2015, 42, 6671-6679.	4.0	61
26	Urban Evolution: The Role of Water. <i>Water (Switzerland)</i> , 2015, 7, 4063-4087.	2.7	72
27	Causes and Consequences of Ecosystem Service Regionalization in a Coastal Suburban Watershed. <i>Estuaries and Coasts</i> , 2015, 38, 19-34.	2.2	9
28	A Scale-Explicit Framework for Conceptualizing the Environmental Impacts of Agricultural Land Use Changes. <i>Sustainability</i> , 2014, 6, 8432-8451.	3.2	14
29	Characterizing Storm-Event Nitrate Fluxes in a Fifth Order Suburbanizing Watershed Using In Situ Sensors. <i>Environmental Science & Technology</i> , 2014, 48, 7756-7765.	10.0	56
30	Temperature and peat type control CO_2 and CH_4 production in Alaskan permafrost peats. <i>Global Change Biology</i> , 2014, 20, 2674-2686.	9.5	158
31	Tracking evolution of urban biogeochemical cycles: past, present, and future. <i>Biogeochemistry</i> , 2014, 121, 1-21.	3.5	122
32	Ecosystem metabolism and nutrient uptake in an urban, piped headwater stream. <i>Biogeochemistry</i> , 2014, 121, 167-187.	3.5	16
33	Nitrate uptake dynamics of surface transient storage in stream channels and fluvial wetlands. <i>Biogeochemistry</i> , 2014, 120, 239-257.	3.5	30
34	Climate variability masks the impacts of land use change on nutrient export in a suburbanizing watershed. <i>Biogeochemistry</i> , 2014, 121, 45-59.	3.5	45
35	Controls on dissolved organic carbon quantity and chemical character in temperate rivers of North America. <i>Global Biogeochemical Cycles</i> , 2013, 27, 492-504.	4.9	45
36	Horizontal cooling towers: riverine ecosystem services and the fate of thermoelectric heat in the contemporary Northeast US. <i>Environmental Research Letters</i> , 2013, 8, 025010.	5.2	52

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37	History of nutrient inputs to the northeastern United States, 1930–2000. <i>Global Biogeochemical Cycles</i> , 2013, 27, 578-591.	4.9	16
38	Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. <i>BioScience</i> , 2012, 62, 575-584.	4.9	59
39	Effects of suburbanization on foodweb stoichiometry of detritus-based streams. <i>Freshwater Science</i> , 2012, 31, 1202-1213.	1.8	9
40	Coastal eutrophication as a driver of salt marsh loss. <i>Nature</i> , 2012, 490, 388-392.	27.8	814
41	Hotbeds of Biogeochemical Diversity: Insights from Urban Long-Term Ecological Research Sites. <i>Elements</i> , 2012, 8, 435-438.	0.5	11
42	Taking the pulse of snowmelt: in situ sensors reveal seasonal, event and diurnal patterns of nitrate and dissolved organic matter variability in an upland forest stream. <i>Biogeochemistry</i> , 2012, 108, 183-198.	3.5	226
43	Separation of river network-scale nitrogen removal among the main channel and two transient storage compartments. <i>Water Resources Research</i> , 2011, 47, .	4.2	72
44	Residence time distributions in surface transient storage zones in streams: Estimation via signal deconvolution. <i>Water Resources Research</i> , 2011, 47, .	4.2	26
45	Thinking outside the channel: modeling nitrogen cycling in networked river ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 229-238.	4.0	104
46	Nitrous oxide emission from denitrification in stream and river networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 214-219.	7.1	517
47	Surface and hyporheic transient storage dynamics throughout a coastal stream network. <i>Water Resources Research</i> , 2010, 46, .	4.2	45
48	Effective denitrification scales predictably with water residence time across diverse systems. <i>Nature Precedings</i> , 2009, , .	0.1	9
49	The regional and global significance of nitrogen removal in lakes and reservoirs. <i>Biogeochemistry</i> , 2009, 93, 143-157.	3.5	326
50	Dynamic modeling of nitrogen losses in river networks unravels the coupled effects of hydrological and biogeochemical processes. <i>Biogeochemistry</i> , 2009, 93, 91-116.	3.5	212
51	The biogeochemical influences of NO_3^- , dissolved O_2 , and dissolved organic C on stream NO_3^- uptake. <i>Journal of the North American Benthological Society</i> , 2009, 28, 894-907.	3.1	14
52	The application of electrical conductivity as a tracer for hydrograph separation in urban catchments. <i>Hydrological Processes</i> , 2008, 22, 1810-1818.	2.6	114
53	Global N removal by freshwater aquatic systems using a spatially distributed, within-basin approach. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	152
54	Dynamics of N removal over annual time periods in a suburban river network. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	72

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55	Relationship between river size and nutrient removal. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	208
56	The Role of Snowmelt and Spring Rainfall in Inorganic Nutrient Fluxes from a Large Temperate Watershed, the Androscoggin River Basin (Maine and New Hampshire). <i>Biogeochemistry</i> , 2006, 80, 191-203.	3.5	12
57	N Retention in Urbanizing Headwater Catchments. <i>Ecosystems</i> , 2005, 8, 871-884.	3.4	109
58	Role of wetlands and developed land use on dissolved organic nitrogen concentrations and DON/TDN in northeastern U.S. rivers and streams. <i>Limnology and Oceanography</i> , 2004, 49, 910-918.	3.1	81
59	A STABLE ISOTOPE TRACER STUDY OF NITROGEN UPTAKE AND TRANSFORMATION IN AN OLD-GROWTH FOREST STREAM. <i>Ecology</i> , 2004, 85, 1725-1739.	3.2	71
60	Factors affecting ammonium uptake in streams - an inter-biome perspective. <i>Freshwater Biology</i> , 2003, 48, 1329-1352.	2.4	233
61	Can uptake length in streams be determined by nutrient addition experiments? Results from an interbiome comparison study. <i>Journal of the North American Benthological Society</i> , 2002, 21, 544-560.	3.1	186
62	N uptake as a function of concentration in streams. <i>Journal of the North American Benthological Society</i> , 2002, 21, 206-220.	3.1	222
63	Control of Nitrogen Export from Watersheds by Headwater Streams. <i>Science</i> , 2001, 292, 86-90.	12.6	1,209
64	Influence of stream size on ammonium and suspended particulate nitrogen processing. <i>Limnology and Oceanography</i> , 2001, 46, 1-13.	3.1	138
65	Nitrogen uptake and transformation in a midwestern U.S. stream: A stable isotope enrichment study. <i>Biogeochemistry</i> , 2001, 54, 297-340.	3.5	76
66	Nitrogen Cycling in a Forest Stream Determined by a ¹⁵ N Tracer Addition. <i>Ecological Monographs</i> , 2000, 70, 471.	5.4	17
67	Quantification of the Nitrogen Cycle in a Prairie Stream. <i>Ecosystems</i> , 2000, 3, 574-589.	3.4	125
68	Analysis of nitrogen cycling in a forest stream during autumn using a ¹⁵ N tracer addition. <i>Limnology and Oceanography</i> , 2000, 45, 1013-1029.	3.1	122
69	NITROGEN CYCLING IN A FOREST STREAM DETERMINED BY A ¹⁵ N TRACER ADDITION. <i>Ecological Monographs</i> , 2000, 70, 471-493.	5.4	211
70	Food resources of stream macroinvertebrates determined by natural-abundance stable C and N isotopes and a ¹⁵ N tracer addition. <i>Journal of the North American Benthological Society</i> , 2000, 19, 145-157.	3.1	67
71	A Coupled Field and Modeling Approach for the Analysis of Nitrogen Cycling in Streams. <i>Journal of the North American Benthological Society</i> , 1999, 18, 199-221.	3.1	45