Peter D F Isles

List of Publications by Year
in descending order

28 papers	830 citations	516215 16 h-index	525886 27 g-index
28 all docs	28 docs citations	28 times ranked	1238 citing authors

#	Article	IF	Citations
1	The misuse of ratios in ecological stoichiometry. Ecology, 2020, 101, e03153.	1.5	109
2	Cyanobacterial blooms in oligotrophic lakes: Shifting the highâ€nutrient paradigm. Freshwater Biology, 2021, 66, 1846-1859.	1.2	67
3	The mobility of phosphorus, iron, and manganese through the sedimentâ€“water continuum of a shallow eutrophic freshwater lake under stratified and mixed water-column conditions. Biogeochemistry, 2016, 127, 15-34.	1.7	62
4	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. Scientific Reports, 2020, 10, 20514.	1.6	56
5	Characterization of Organic Phosphorus Form and Bioavailability in Lake Sediments using ³¹ P Nuclear Magnetic Resonance and Enzymatic Hydrolysis. Journal of Environmental Quality, 2015, 44, 882-894.	1.0	45
6	Dynamic internal drivers of a historically severe cyanobacteria bloom in Lake Champlain revealed through comprehensive monitoring. Journal of Great Lakes Research, 2015, 41, 818-829.	0.8	45
7	Climate-driven changes in energy and mass inputs systematically alter nutrient concentration and stoichiometry in deep and shallow regions of Lake Champlain. Biogeochemistry, 2017, 133, 201-217.	1.7	44
8	Dynamic Coupling of Iron, Manganese, and Phosphorus Behavior in Water and Sediment of Shallow Ice-Covered Eutrophic Lakes. Environmental Science & Technology, 2015, 49, 9758-9767.	4.6	41
9	Coupled impacts of climate and land use change across a riverâ€“lake continuum: insights from an integrated assessment model of Lake Champlainâ€™s Missisquoi Basin, 2000â€“2040. Environmental Research Letters, 2016, 11, 114026.	2.2	40
10	The potential of high-frequency profiling to assess vertical and seasonal patterns of phytoplankton dynamics in lakes: an extension of the Plankton Ecology Group (PEG) model. Inland Waters, 2016, 6, 565-580.	1.1	34
11	Recent Synchronous Declines in DIN:TP in Swedish Lakes. Global Biogeochemical Cycles, 2018, 32, 208-225.	1.9	32
12	Quantile regression improves models of lake eutrophication with implications for ecosystemâ€specific management. Freshwater Biology, 2015, 60, 1841-1853.	1.2	30
13	Winter weather and lakeâ€watershed physical configuration drive phosphorus, iron, and manganese dynamics in water and sediment of iceâ€covered lakes. Limnology and Oceanography, 2017, 62, 1620-1635.	1.6	26
14	Lowered nutritional quality of plankton caused by global environmental changes. Global Change Biology, 2021, 27, 6294-6306.	4.2	26
15	Earlier winter/spring runoff and snowmelt during warmer winters lead to lower summer chlorophyllâ€a in north temperate lakes. Global Change Biology, 2021, 27, 4615-4629.	4.2	22
16	Does browning affect the identity of limiting nutrients in lakes?. Aquatic Sciences, 2020, 82, 1.	0.6	20
17	An operational framework for defining and forecasting phytoplankton blooms. Frontiers in Ecology and the Environment, 2021, 19, 443-450.	1.9	18
18	Underwater dual-magnification imaging for automated lake plankton monitoring. Water Research, 2021, 203, 117524.	5.3	18

#	Article	IF	Citations
19	Trade-offs Between Light and Nutrient Availability Across Gradients of Dissolved Organic Carbon Lead to Spatially and Temporally Variable Responses of Lake Phytoplankton Biomass to Browning. Ecosystems, 2021, 24, 1837-1852.	1.6	16
20	Changes in nutritional quality and nutrient limitation regimes of phytoplankton in response to declining N deposition in mountain lakes. Aquatic Sciences, 2020, 82, 1.	0.6	15
21	Deep Learning Classification of Lake Zooplankton. Frontiers in Microbiology, 2021, 12, 746297.	1.5	14
22	Virtual Growing Pains: Initial Lessons Learned from Organizing Virtual Workshops, Summits, Conferences, and Networking Events during a Global Pandemic. Limnology and Oceanography Bulletin, 2021, 30, 1-11.	0.2	9
23	Modeling the drivers of interannual variability in cyanobacterial bloom severity using self-organizing maps and high-frequency data. Inland Waters, 2017, 7, 333-347.	1.1	8
24	Global data set of long-term summertime vertical temperature profiles in 153 lakes. Scientific Data, 2021, 8, 200.	2.4	7
25	Resolving the Drivers of Algal Nutrient Limitation from Boreal to Arctic Lakes and Streams. Ecosystems, 2022, 25, 1682-1699.	1.6	7
26	Biomass, community composition and N:P recycling ratios of zooplankton in northern highâ€latitude lakes with contrasting levels of N deposition and dissolved organic carbon. Freshwater Biology, 2022, 67, 1508-1520.	1.2	7
27	A novel framework for quantifying past methane recycling by Sphagnumâ€methanotroph symbiosis using carbon and hydrogen isotope ratios of leaf wax biomarkers. Geochemistry, Geophysics, Geosystems, 2014, 15, 1827-1836.	1.0	6
28	Climate Changeâ€Legacy Phosphorus Synergy Hinders Lake Response to Aggressive Water Policy Targets. Earth's Future, 2022, 10, .	2.4	6