John A Downing

List of Publications by Year
in descending order

53 papers	8,479 citations	134610 34 h-index	190340 53 g-index
55 all docs	55 docs citations	55 times ranked	10119 citing authors

#	Article	IF	Citations
1	Lakes and reservoirs as regulators of carbon cycling and climate. Limnology and Oceanography, 2009, 54, 2298-2314.	1.6	1,977
2	Freshwater Methane Emissions Offset the Continental Carbon Sink. Science, 2011, 331, 50-50.	6.0	1,159
3	Predicting Cyanobacteria dominance in lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 1905-1908.	0.7	628
4	The nitrogen : phosphorus relationship in lakes. Limnology and Oceanography, 1992, 37, 936-945.	1.6	470
5	Greenhouse gas emissions from lakes and impoundments: Upscaling in the face of global change. Limnology and Oceanography Letters, 2018, 3, 64-75.	1.6	303
6	Eutrophication will increase methane emissions from lakes and impoundments during the 21st century. Nature Communications, 2019, 10, 1375.	5.8	299
7	Recreational demand for clean water: evidence from geotagged photographs by visitors to lakes. Frontiers in Ecology and the Environment, 2015, 13, 76-81.	1.9	211
8	The influence of watershed land use on lake N: P in a predominantly agricultural landscape. Limnology and Oceanography, 2001, 46, 970-975.	1.6	207
9	Sigmoid Relationships between Nutrients and Chlorophyll among Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 1171-1175.	0.7	180
10	The Influence of Land Use on Lake Nutrients Varies with Watershed Transport Capacity. Ecosystems, 2008, 11, 1021-1034.	1.6	178
11	Eutrophication reverses whole-lake carbon budgets. Inland Waters, 2014, 4, 41-48.	1.1	165
12	Crossâ€scale interactions: quantifying multiâ€scaled causeâ€"effect relationships in macrosystems. Frontiers in Ecology and the Environment, 2014, 12, 65-73.	1.9	164
13	A Century of Change in Macrophyte Abundance and Composition in Response to Agricultural Eutrophication. Hydrobiologia, 2004, 524, 145-156.	1.0	161
14	Marine nitrogen: Phosphorus stoichiometry and the global N:P cycle. Biogeochemistry, 1997, 37, 237-252.	1.7	145
15	Sigmoid Relationships between Phosphorus, Algal Biomass, and Algal Community Structure. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 2605-2610.	0.7	144
16	META-ANALYSIS OF MARINE NUTRIENT-ENRICHMENT EXPERIMENTS: VARIATION IN THE MAGNITUDE OF NUTRIENT LIMITATION. Ecology, 1999, 80, 1157-1167.	1.5	142
17	Environmental factors influencing microcystin distribution and concentration in the Midwestern United States. Water Research, 2004, 38, 4395-4404.	5.3	142
18	CO₂ emissions from saline lakes: A global estimate of a surprisingly large flux. Journal of Geophysical Research, 2008, 113, .	3.3	137

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19	Cyanobacteria dominance influences resource use efficiency and community turnover in phytoplankton and zooplankton communities. Ecology Letters, 2014, 17, 464-474.	3.0	128
20	Dry and wet atmospheric deposition of nitrogen, phosphorus and silicon in an agricultural region. Water, Air, and Soil Pollution, 2006, 176, 351-374.	1.1	125
21	Impacts of Eutrophication on Carbon Burial in Freshwater Lakes in an Intensively Agricultural Landscape. Ecosystems, 2012, 15, 60-70.	1.6	123
22	Valuing Water Quality as a Function of Water Quality Measures. American Journal of Agricultural Economics, 2009, 91, 106-123.	2.4	115
23	Relationship of chlorophyll to phosphorus and nitrogen in nutrient-rich lakes. Inland Waters, 2017, 7, 385-400.	1.1	100
24	Building a multi-scaled geospatial temporal ecology database from disparate data sources: fostering open science and data reuse. GigaScience, 2015, 4, 28.	3.3	92
25	Length-specific growth rates in freshwater mussels (Bivalvia: Unionidae): extreme longevity or generalized growth cessation?. Freshwater Biology, 2001, 46, 1349-1359.	1.2	78
26	Regional variability among nonlinear chlorophyllâ€"phosphorus relationships in lakes. Limnology and Oceanography, 2014, 59, 1691-1703.	1.6	78
27	An empirical evaluation of the nutrientâ€color paradigm for lakes. Limnology and Oceanography, 2008, 53, 1137-1148.	1.6	77
28	Long-Term Citizen-Collected Data Reveal Geographical Patterns and Temporal Trends in Lake Water Clarity. PLoS ONE, 2014, 9, e95769.	1.1	74
29	Pathways of Increased Water Clarity After Fish Removal from Ventura Marsh; a Shallow, Eutrophic Wetland. Hydrobiologia, 2004, 511, 215-231.	1.0	73
30	Limnology and oceanography: two estranged twins reuniting by global change. Inland Waters, 2014, 4, 215-232.	1.1	68
31	Protecting local water quality has global benefits. Nature Communications, 2021, 12, 2709.	5.8	61
32	Common carp (<i>Cyprinus carpio</i>), sport fishes, and water quality: Ecological thresholds in agriculturally eutrophic lakes. Lake and Reservoir Management, 2010, 26, 14-22.	0.4	58
33	Headwaters to oceans: Ecological and biogeochemical contrasts across the aquatic continuum. Limnology and Oceanography, 2017, 62, S3.	1.6	55
34	Phytoplankton taxonomic compositional shifts across nutrient and light gradients in temperate lakes. Inland Waters, 2016, 6, 234-249.	1.1	39
35	Internal shell annuli yield inaccurate growth estimates in the freshwater mussels Elliptio complanata and Lampsilis radiata. Freshwater Biology, 1997, 37, 325-332.	1.2	34
36	Global limnology: up-scaling aquatic services and processes to planet Earth. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2009, 30, 1149-1166.	0.1	34

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37	Effects of Watershed Configuration and Composition on Downstream Lake Water Quality. Journal of Environmental Quality, 2011, 40, 517-527.	1.0	31
38	Biomass pyramids in lake plankton: influence of Cyanobacteria size and abundance. Inland Waters, 2016, 6, .	1.1	30
39	Diatom floristic change and lake paleoproduction as evidence of recent eutrophication in shallow lakes of the midwestern USA. Journal of Paleolimnology, 2015, 53, 17-34.	0.8	23
40	Prediction of lake depth across a 17-state region in the United States. Inland Waters, 2016, 6, 314-324.	1.1	22
41	Physical Impacts of Wind and Boat Traffic on Clear Lake, Iowa, USA. Lake and Reservoir Management, 2003, 19, 1-14.	0.4	20
42	Low ratios of silica to dissolved nitrogen supplied to rivers arise from agriculture not reservoirs. Ecology Letters, 2016, 19, 1414-1418.	3.0	19
43	Eutrophication Drives Extreme Seasonal CO2 Flux in Lake Ecosystems. Ecosystems, 2021, 24, 434-450.	1.6	19
44	Evidence for regional nitrogen stress on chlorophyll a in lakes across large landscape and climate gradients. Limnology and Oceanography, 2018, 63, S324.	1.6	18
45	Impact of trophic state on the distribution of intact polar lipids in surface waters of lakes. Limnology and Oceanography, 2016, 61, 1065-1077.	1.6	16
46	Sediment organic carbon distribution in 4 small northern Missouri impoundments: implications for sampling and carbon sequestration. Inland Waters, 2013, 3, 39-46.	1.1	15
47	Substratum patch selection in the lacustrine mussels Elliptio complanata and Pyganodon grandis grandis. Freshwater Biology, 2000, 44, 641-648.	1.2	14
48	Size, age, renewal, and discharge of groundwater carbon. Inland Waters, 2018, 8, 122-127.	1.1	10
49	Productivity of Freshwater Ecosystems and Climate Change. , 2014, , 221-229.		8
50	Measuring atmospheric nutrient deposition to inland waters: Evaluation of direct methods. Limnology and Oceanography: Methods, 2009, 7, 638-647.	1.0	5
51	Founding <i>Limnology & Oceanography Letters</i>: The challenges, risks, and rewards of launching a new scientific journal. Limnology and Oceanography Letters, 2021, 6, 227-231.	1.6	2
52	Science Societies, Publication and Open Access Mandates. Limnology and Oceanography Bulletin, 2020, 29, 78-80.	0.2	1
53	Double Down on Federal Science Spending. CSA News, 2021, 66, 24-25.	0.1	0