Frances R Pick

List of Publications by Year
in descending order

110 papers	4,846 citations	101543 36 h-index	102487 66 g-index
110 all docs	110 docs citations	110 times ranked	4507 citing authors

#	Article	IF	Citations
1	Cyanobacteria and Cyanotoxins: The Influence of Nitrogen versus Phosphorus. PLoS ONE, 2012, 7, e38757.	2.5	281
2	Acceleration of cyanobacterial dominance in north temperateâ€subarctic lakes during the Anthropocene. Ecology Letters, 2015, 18, 375-384.	6.4	270
3	Factors regulating phytoplankton and zooplankton biomass in temperate rivers. Limnology and Oceanography, 1996, 41, 1572-1577.	3.1	241
4	Colourful coexistence of red and green picocyanobacteria in lakes and seas. Ecology Letters, 2007, 10, 290-298.	6.4	226
5	Nutrients and water temperature are significant predictors of cyanobacterial biomass in a 1147 lakes data set. Limnology and Oceanography, 2013, 58, 1736-1746.	3.1	200
6	Blooming algae: a Canadian perspective on the rise of toxic cyanobacteria. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1149-1158.	1.4	145
7	Photosynthetic response of lake plankton to nutrient enrichment: A test for nutrient limitation. Limnology and Oceanography, 1981, 26, 1001-1019.	3.1	134
8	Meta-analysis of cyanobacterial effects on zooplankton population growth rate: species-specific responses. Fundamental and Applied Limnology, 2008, 171, 285-295.	0.7	127
9	Nitrogen and Phosphorus Tissue Concentrations in 41 Wetland Plants: A Comparison Across Habitats and Functional Groups. Functional Ecology, 1995, 9, 231.	3.6	120
10	Periphyton biomass and community composition in rivers of different nutrient status. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 560-569.	1.4	118
11	Phytoplankton and zooplankton development in a lowland, temperate river. Journal of Plankton Research, 1997, 19, 237-253.	1.8	115
12	Nitrogen Forms Influence Microcystin Concentration and Composition via Changes in Cyanobacterial Community Structure. PLoS ONE, 2014, 9, e85573.	2.5	115
13	The role of macronutrients (C, N, P) in controlling cyanobacterial dominance in temperate lakes. New Zealand Journal of Marine and Freshwater Research, 1987, 21, 425-434.	2.0	113
14	Picoplankton and Nanoplankton Biomass in Lake Ontario: Relative Contribution of Phototrophic and Heterotrophic Communities. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2164-2172.	1.4	111
15	Predicting cyanobacterial dynamics in the face of global change: the importance of scale and environmental context. Global Change Biology, 2012, 18, 3477-3490.	9.5	106
16	The occurrence of the cyanobacteriumCylindrospermopsis raciborskiiin Constance Lake: an exotic cyanoprokaryote new to Canada. Phycologia, 2005, 44, 17-25.	1.4	83
17	The abundance and composition of freshwater picocyanobacteria in relation to light penetration. Limnology and Oceanography, 1991, 36, 1457-1462.	3.1	74
18	The Seasonal Dynamics and Composition of Photosynthetic Picoplankton Communities in Temperate Lakes in Ontario, Canada. International Review of Hydrobiology, 1991, 76, 565-580.	0.6	73

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19	Detection of Microcystin-Producing Cyanobacteria in Missisquoi Bay, Quebec, Canada, Using Quantitative PCR. Applied and Environmental Microbiology, 2010, 76, 5105-5112.	3.1	70
20	Analysis of intracellular and extracellular microcystin variants in sediments and pore waters by accelerated solvent extraction and high performance liquid chromatography-tandem mass spectrometry. Analytica Chimica Acta, 2015, 872, 26-34.	5.4	65
21	Mercury, polybrominated diphenyl ether, organochlorine pesticide, and polychlorinated biphenyl concentrations in fish from lakes along an elevation transect in the French PyrÃ©nÃ©es. Ecotoxicology and Environmental Safety, 2006, 63, 91-99.	6.0	63
22	Atrazine contamination at the watershed scale and environmental factors affecting sampling rates of the polar organic chemical integrative sampler (POCIS). Environmental Pollution, 2014, 189, 134-142.	7.5	63
23	Thermal stratification patterns in urban ponds and their relationships with vertical nutrient gradients. Journal of Environmental Management, 2013, 127, 317-323.	7.8	61
24	Potamoplankton size structure and taxonomic composition: Influence of river size and nutrient concentrations. Limnology and Oceanography, 2006, 51, 681-689.	3.1	56
25	Experimental Evidence for Interactive Impacts of Human Activities on Lake Algal Species Richness. Oikos, 1996, 76, 191.	2.7	55
26	Effect of Light Intensity on the Relative Dominance of Toxigenic and Nontoxigenic Strains of Microcystis aeruginosa. Applied and Environmental Microbiology, 2011, 77, 7016-7022.	3.1	55
27	The origin of a metalimnetic chrysophyte peak. Limnology and Oceanography, 1984, 29, 125-134.	3.1	54
28	Fate and Persistence of Particulate and Dissolved Microcystin-LA fromMicrocystisBlooms. Human and Ecological Risk Assessment (HERA), 2014, 20, 1670-1686.	3.4	52
29	Using vegetation indices from satellite remote sensing to assess corn and soybean response to controlled tile drainage. Agricultural Water Management, 2010, 98, 261-270.	5.6	51
30	Interpretations of Alkaline Phosphatase Activity in Lake Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2087-2094.	1.4	50
31	Phosphorus Deficiency of Lake Ontario Plankton. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2069-2076.	1.4	50
32	Effects of Nutrients and Planktivorous Fish on the Phytoplankton of Shallow and Deep Aquatic Systems. Ecology, 1996, 77, 1556-1572.	3.2	48
33	Temporal trends in cyanobacteria revealed through DNA and pigment analyses of temperate lake sediment cores. Journal of Paleolimnology, 2015, 54, 87-101.	1.6	45
34	Test of the first-order removal model for metal retention in a young constructed wetland. Ecological Engineering, 2001, 17, 357-371.	3.6	42
35	EFFECT OF SPECTRAL QUALITY ON GROWTH AND PIGMENTATION OF PICOCYANOBACTERIA1. Journal of Phycology, 1991, 27, 698-702.	2.3	39
36	Thermal and chemical stratification of urban ponds: Are they â€˜completely mixed reactorsâ€™?. Urban Ecosystems, 2013, 16, 327-339.	2.4	39

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37	The Lake Ontario Life Support System. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2230-2240.	1.4	37
38	Contrasting two methods for determining trace metal partitioning in oxidized lake sediments. Biogeochemistry, 1992, 17, 205-219.	3.5	37
39	Allelopathic effects of the toxic cyanobacteriumMicrocystis aeruginosa on duckweed,Lemna gibba L.. Environmental Toxicology, 2005, 20, 67-73.	4.0	37
40	Stormwater ponds as habitat for Odonata in urban areas: the importance of obligate wetland plant species. Biodiversity and Conservation, 2020, 29, 913-931.	2.6	34
41	CHANGES IN THE PLANKTONIC DIATOM FLORA OF A LARGE MOUNTAIN LAKE IN RESPONSE TO FERTILIZATION1. Journal of Phycology, 1996, 32, 232-243.	2.3	33
42	Organochlorine Compounds in Trout from Lakes over a 1600 Meter Elevation Gradient in the Canadian Rocky Mountains. Environmental Science & Technology, 2007, 41, 2723-2729.	10.0	33
43	Reconstructing a long-term record of microcystins from the analysis of lake sediments. Science of the Total Environment, 2017, 579, 893-901.	8.0	33
44	Changes in dissolved and total Fe and Mn in a young constructed wetland: Implications for retention performance. Ecological Engineering, 2001, 17, 373-384.	3.6	31
45	PHOTOSYNTHETIC RESPONSE OF LAKE PLANKTON TO COMBINED NITROGEN ENRICHMENT. Journal of Phycology, 1982, 18, 509-521.	2.3	30
46	Longitudinal and seasonal development of planktonio chlorophyll a in the Rideau River, Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 804-815.	1.4	29
47	Comparing predictive cyanobacterial models from temperate regions. Canadian Journal of Fisheries and Aquatic Sciences, 2014, 71, 1830-1839.	1.4	29
48	Carbohydrate and Protein Content of Lake Seston in Relation to Plankton Nutrient Deficiency. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2095-2101.	1.4	28
49	Pressurized liquid extraction of toxins from cyanobacterial cells. Environmental Toxicology, 2005, 20, 390-396.	4.0	28
50	Nutrient status of metalimnetic phytoplankton peaks. Limnology and Oceanography, 1984, 29, 960-971.	3.1	27
51	Sedimentation of algae: relationships with biomass and size distribution. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 1133-1142.	1.4	27
52	Factors related to heterotrophic bacterial and flagellate abundance in temperate rivers. Aquatic Microbial Ecology, 1997, 12, 123-129.	1.8	26
53	Predicting diversity versus community composition of aquatic plants at the river scale. Aquatic Botany, 2008, 88, 338-346.	1.6	25
54	Effect of Nitrogen on Cellular Production and Release of the Neurotoxin Anatoxin-A in a Nitrogen-Fixing Cyanobacterium. Frontiers in Microbiology, 2012, 3, 211.	3.5	25

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55	Title is missing!. Water, Air, and Soil Pollution, 2001, 132, 275-291.	2.4	24
56	Factors affecting the bacteria-heterotrophic nanoflagellate relationship in oligo-mesotrophic lakes. Journal of Plankton Research, 2004, 26, 681-695.	1.8	24
57	Comparing microscopy and DNA metabarcoding techniques for identifying cyanobacteria assemblages across hundreds of lakes. Harmful Algae, 2022, 113, 102187.	4.8	24
58	Factors Influencing Orthophosphate Turnover Times: a Comparison of Canadian and New Zealand Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1982, 39, 469-474.	1.4	23
59	Sampling and analysis of microcystins: Implications for the development of standardized methods. Environmental Toxicology, 2007, 22, 132-143.	4.0	23
60	The development of a true riverine phytoplankton assemblage along a lake-fed lowland river. Fundamental and Applied Limnology, 1997, 140, 243-260.	0.7	23
61	Periphyton biomass and community composition in rivers of different nutrient status. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 560-569.	1.4	23
62	Picocyanobacteria abundance in relation to growth and loss rates in oligotrophic to mesotrophic lakes. Aquatic Microbial Ecology, 2002, 27, 37-46.	1.8	23
63	On phytoplankton growth and loss rates to microzooplankton in the epilimnion and metalimnion of Lake Ontario in mid-summer. Journal of Great Lakes Research, 2012, 38, 146-153.	1.9	22
64	Effects of planktivorous fish and nutrient additions on primary production of shallow versus deep (stratified) lake enclosures. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 1125-1132.	1.4	21
65	Water quality effects on dragonfly and damselfly nymph communities: A comparison of urban and natural ponds. Environmental Pollution, 2020, 263, 114472.	7.5	20
66	Metal concentrations in chrionomids in relation to peatland geochemistry. Archives of Environmental Contamination and Toxicology, 1994, 27, 186.	4.1	19
67	Contrasting histories of microcystin-producing cyanobacteria in two temperate lakes as inferred from quantitative sediment DNA analyses. Lake and Reservoir Management, 2019, 35, 102-117.	1.3	19
68	The response of biota in experimental stream channels to a 24â€hour exposure to the herbicide Velpar LÂ®. Environmental Toxicology and Chemistry, 1995, 14, 1607-1613.	4.3	18
69	Meteorological and Nutrient Conditions Influence Microcystin Congeners in Freshwaters. Toxins, 2019, 11, 620.	3.4	18
70	Total Hg in Water, Sediment, and Four Species of Aquatic Macrophytes in the St. Lawrence River, near Cornwall, Ontario. Journal of Great Lakes Research, 1999, 25, 294-304.	1.9	17
71	Daphnia Preâ€Exposed to Toxic Microcystis Exhibit Feeding Selectivity. International Review of Hydrobiology, 2011, 96, 20-28.	0.9	17
72	The Accumulation of Cadmium by the Yellow Pond Lily, Nuphar variegatum , in Ontario Peatlands. Archives of Environmental Contamination and Toxicology, 1997, 32, 161-165.	4.1	16

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73	Determining in situ periphyton community responses to nutrient and atrazine gradients via pigment analysis. Science of the Total Environment, 2015, 515-516, 70-82.	8.0	16
74	Characterization of Cyanobacterial Picoplankton in Lake Ontario by Transmission Electron Microscopy. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, 2173-2177.	1.4	15
75	Nutrients override atrazine effects on riparian and aquatic plant community structure in a <scp>N</scp>orth <scp>A</scp>merican agricultural catchment. Freshwater Biology, 2015, 60, 1292-1307.	2.4	14
76	Orthophosphate and its Flux in Lake Waters. Canadian Journal of Fisheries and Aquatic Sciences, 1981, 38, 1215-1219.	1.4	13
77	DIURNAL MOVEMENTS OF METALIMNETIC PHYTOPLANKTON1. Journal of Phycology, 1984, 20, 430-436.	2.3	13
78	Diel cycles in the frequency of dividing cells of freshwater picocyanobacteria. Journal of Plankton Research, 1992, 14, 1193-1198.	1.8	13
79	Temporal variability of water chemistry in flowing waters of the northeastern United States: does river size matter?. Journal of the North American Benthological Society, 2001, 20, 331-346.	3.1	13
80	Effects of nutrients, planktivorous fish and water column depth on components of the microbial food web. Aquatic Microbial Ecology, 1999, 19, 67-80.	1.8	13
81	Plants, water quality and land cover as drivers of Odonata assemblages in urban ponds. Science of the Total Environment, 2021, 773, 145467.	8.0	12
82	Isolation and Characterization of [D-Leu1]microcystin-LY from Microcystis aeruginosa CPCC-464. Toxins, 2020, 12, 77.	3.4	12
83	PCB Concentrations and Congener Composition in Macrophytes and Sediments in the St. Lawrence River near Cornwall, Ontario. Journal of Great Lakes Research, 1997, 23, 297-306.	1.9	11
84	A PCR-RFLP method to detect hybridization between the invasive Eurasian watermilfoil (Myriophyllum spicatum) and the native northern watermilfoil (Myriophyllum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 Td (si		
85	Contrasting the geochemistry of aluminum among peatlands. Water, Air, and Soil Pollution, 1995, 81, 219-240.	2.4	10
86	Interaction of Nutrients and Turbidity in the Control of Phytoplankton in a Large Western Canadian Lake Prior to Major Watershed Impoundments. Lake and Reservoir Management, 2005, 21, 261-276.	1.3	10
87	Comparing Quantitative Methods for Analyzing Sediment DNA Records of Cyanobacteria in Experimental and Reference Lakes. Frontiers in Microbiology, 2021, 12, 669910.	3.5	10
88	Comparing the sensitivity of geographically distinct Lemna minor populations to atrazine. Ecotoxicology, 2013, 22, 718-730.	2.4	9
89	Picophytoplankton during the ice-free season in five temperate-zone rivers. Journal of Plankton Research, 2013, 35, 553-565.	1.8	9
90	Macrophytes are highly sensitive to the herbicide diquat dibromide in test systems of varying complexity. Ecotoxicology and Environmental Safety, 2018, 165, 325-333.	6.0	9

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91	Metabolome Variation between Strains of Microcystis aeruginosa by Untargeted Mass Spectrometry. Toxins, 2019, 11, 723.	3.4	9
92	Effects of temperature and oxygen on cyanobacterial DNA preservation in sediments: A comparison study of major taxa. Environmental DNA, 2022, 4, 717-731.	5.8	9
93	A comparison of molecular markers and morphology for Neidium taxa (Bacillariophyta) from eastern North America. Journal of Phycology, 2017, 53, 680-702.	2.3	8
94	Zebra mussel (Dreissena polymorpha) veliger larvae: distribution and relationship to phytoplankton biomass and composition in the Rideau River, Ontario, Canada. Archiv FÃ¼r Hydrobiologie, 2004, 161, 113-131.	1.1	7
95	Hypoxic conditions in stormwater retention ponds: potential for hydrogen sulfide emission. Environmental Technology (United Kingdom), 2019, 40, 642-653.	2.2	7
96	The effects of changes in both the abundance of nitrogen and phosphorus and their ratio on Lake Okaro phytoplankton, with comment on six other central volcanic plateau lakes. New Zealand Journal of Marine and Freshwater Research, 1987, 21, 539-542.	2.0	6
97	The effect of sampling scales on the interpretation of environmental drivers of the cyanotoxin microcystin. Lake and Reservoir Management, 2011, 27, 183-193.	1.3	6
98	Numerical investigation on the impact of wind-induced hydraulics on dissolved oxygen characteristics in a shallow stormwater pond. Water Quality Research Journal of Canada, 2019, 54, 309-325.	2.7	6
99	The Effects of Ditch Management in Agroecosystems on Embryonic and Tadpole Survival, Growth, and Development of Northern Leopard Frogs (Lithobates pipiens). Archives of Environmental Contamination and Toxicology, 2021, 81, 107-122.	4.1	6
100	Effects of Fertilization on Phytoplankton in Kootenay Lake, British Columbia. Lake and Reservoir Management, 1997, 13, 57-66.	1.3	5
101	The Evaluation of Metal Retention by a Constructed Wetland Using the Pulmonate Gastropod Helisoma trivolvis (Say). Archives of Environmental Contamination and Toxicology, 2001, 40, 303-310.	4.1	5
102	Photosynthetic carbon allocation: Effects of planktivorous fish and nutrient enrichment. , 2002, 64, 217-238.		5
103	Emerging investigators series: hydrogen sulfide production in municipal stormwater retention ponds under ice covered conditions: a study of water quality and SRB populations. Environmental Science: Water Research and Technology, 2017, 3, 686-698.	2.4	5
104	Sulfide production kinetics and model of stormwater retention ponds. Water Science and Technology, 2018, 77, 2377-2387.	2.5	5
105	Diagnostic Fragmentation Filtering for Cyanopeptolin Detection. Environmental Toxicology and Chemistry, 2021, 40, 1087-1097.	4.3	5
106	Freshwater bloomâ€forming cyanobacteria and anthropogenic change. Limnology and Oceanography E-Lectures, 2017, 7, 1-62.	0.6	3
107	Effects of planktivorous fish and nutrient additions on primary production of shallow versus deep (stratified) lake enclosures. Canadian Journal of Fisheries and Aquatic Sciences, 1996, 53, 1125-1132.	1.4	2
108	Total mercury in the water and sediments of St. Lawrence River wetlands compared with inland wetlands of Temagami - North Bay and Muskoka-Haliburton. Canadian Journal of Fisheries and Aquatic Sciences, 2000, 57, 148-154.	1.4	1

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109	Title is missing!. Water, Air, and Soil Pollution, 1997, 96, 155-173.	2.4	0
110	Diversity, distribution, and abundance of freshwater mussels in the Raisin River drainage basin, Eastern Ontario, Canada. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2010, 30, 1456-1460.	0.1	0