Norman D Yan

List of Publications by Year
in descending order

130 papers	6,535 citations	41344 49 h-index	76900 74 g-index
130 all docs	130 docs citations	130 times ranked	4811 citing authors

#	Article	IF	Citations
1	The Widespread Threat of Calcium Decline in Fresh Waters. Science, 2008, 322, 1374-1377.	12.6	295
2	Increased UV-B penetration in a lake owing to drought-induced acidification. Nature, 1996, 381, 141-143.	27.8	287
3	Taking stock of the assisted migration debate. Biological Conservation, 2011, 144, 2560-2572.	4.1	216
4	Communities contain closely related species during ecosystem disturbance. Ecology Letters, 2010, 13, 162-174.	6.4	179
5	An Integrated Multi-Disciplinary Approach for Studying Multiple Stressors in Freshwater Ecosystems: Daphnia as a Model Organism. Integrative and Comparative Biology, 2011, 51, 623-633.	2.0	142
6	Acidic deposition: Effects on aquatic ecosystems. C R C Critical Reviews in Environmental Control, 1984, 13, 167-194.	1.0	138
7	Environmental stability and lake zooplankton diversity â€“ contrasting effects of chemical and thermal variability. Ecology Letters, 2010, 13, 453-463.	6.4	123
8	An introduced invertebrate predator (Bythotrephes) reduces zooplankton species richness. Ecology Letters, 2002, 5, 481-485.	6.4	116
9	The interactive effects of calcium concentration and temperature on the survival and reproduction of Daphnia pulex at high and low food concentrations. Limnology and Oceanography, 2008, 53, 420-432.	3.1	112
10	The Temporal Coherence of Zooplankton Population Abundances in Neighboring Northâ€Temperate Lakes. American Naturalist, 1999, 153, 46-58.	2.1	107
11	Regulation of Zooplankton Community Structure of an Acidified Lake by Chaoborus. , 1991, 1, 52-65.		103
12	Long-term trends in zooplankton of Dorset, Ontario, lakes: the probable interactive effects of changes in pH, total phosphorus, dissolved organic carbon, and predators. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 862-877.	1.4	103
13	Effects of Changes in pH on Transparency and Thermal Regimes of Lohi Lake, near Sudbury, Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 1983, 40, 621-626.	1.4	98
14	A review of the influence of low ambient calcium concentrations on freshwater daphniids, gammarids, and crayfish. Environmental Reviews, 2009, 17, 67-79.	4.5	98
15	Forests fuel fish growth in freshwater deltas. Nature Communications, 2014, 5, 4077.	12.8	98
16	Should Biological Invasions Be Managed as Natural Disasters?. BioScience, 2011, 61, 312-317.	4.9	96
17	Lake acidification: effects on crustacean zooplankton populations. Environmental Science & Technology, 1993, 27, 1621-1624.	10.0	92
18	Invasion of Lake Ontario by the Ponto-Caspian predatory cladoceran Cercopagis pengoi. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 1-5.	1.4	91

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19	Species identity and aqueous calcium concentrations as determinants of calcium concentrations of freshwater crustacean zooplankton. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 1007-1013.	1.4	89
20	Diversity?stability relationship varies with latitude in zooplankton. Ecology Letters, 2007, 10, 127-134.	6.4	89
21	Changes in zooplankton and the phenology of the spiny water flea, Bythotrephes, following its invasion of Harp Lake, Ontario, Canada. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 2341-2350.	1.4	88
22	Recovery of copepod, but not cladoceran, zooplankton from severe and chronic effects of multiple stressors. Ecology Letters, 2004, 7, 452-460.	6.4	87
23	Use of water clarity to monitor the effects of climate change and other stressors on oligotrophic lakes. Environmental Monitoring and Assessment, 2001, 67, 69-88.	2.7	83
24	Developing Conceptual Frameworks for the Recovery of Aquatic Biota from Acidification. Ambio, 2003, 32, 165-169.	5.5	83
25	The differing crustacean zooplankton communities of Canadian Shield lakes with and without the nonindigenous zooplanktivore Bythotrephes longimanus. Canadian Journal of Fisheries and Aquatic Sciences, 2003, 60, 1307-1313.	1.4	82
26	The future of species invasions in the Great Lakes-St. Lawrence River basin. Journal of Great Lakes Research, 2015, 41, 96-107.	1.9	81
27	Biological Recoverâ€ƒy from Lake Acidification: Zooplankton Communities as a Model of Patterns and Processes. Restoration Ecology, 1998, 6, 364-375.	2.9	80
28	Effects of climate change on the distribution of invasive alien species in Canada: a knowledge synthesis of range change projections in a warming world. Environmental Reviews, 2012, 20, 1-16.	4.5	78
29	Title is missing!. Aquatic Ecology, 1999, 33, 127-133.	1.5	76
30	Road Salt Impacts Freshwater Zooplankton at Concentrations below Current Water Quality Guidelines. Environmental Science & Technology, 2020, 54, 9398-9407.	10.0	76
31	Variation in the response of crustacean zooplankton species richness and composition to the invasive predator Bythotrephes longimanus. Canadian Journal of Fisheries and Aquatic Sciences, 2006, 63, 2126-2136.	1.4	74
32	Phytoplankton community of an acidified, heavy metal?Contaminated lake near Sudbury, Ontario: 1973?1977. Water, Air, and Soil Pollution, 1979, 11, 43-55.	2.4	71
33	Crustacean zooplankton communities in lakes recovering from acidification. Canadian Journal of Fisheries and Aquatic Sciences, 2002, 59, 726-735.	1.4	71
34	Modeling Bythotrephes longimanus invasions in the Great Lakes basin based on its European distribution. Fundamental and Applied Limnology, 2000, 149, 1-21.	0.7	70
35	Changes in water chemistry can disable plankton prey defenses. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15377-15382.	7.1	66
36	The jellification of north temperate lakes. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142449.	2.6	65

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37	Inferred effects of lake acidification on Daphnia galeata mendotae. Environmental Science & Technology, 1990, 24, 1259-1261.	10.0	64
38	Crustacean zooplankton species richness: single- and multiple-year estimates. Canadian Journal of Fisheries and Aquatic Sciences, 1998, 55, 1573-1582.	1.4	64
39	RISING WATER TEMPERATURES ALTER LIPID DYNAMICS AND REDUCE N-3 ESSENTIAL FATTY ACID CONCENTRATIONS IN SCENEDESMUS OBLIQUUS (CHLOROPHYTA)1. Journal of Phycology, 2011, 47, 763-774.	2.3	62
40	THE INFLUENCE OF DROUGHT AND RE-ACIDIFICATION ON ZOOPLANKTON EMERGENCE FROM RESTING STAGES. , 2002, 12, 138-153.		61
41	Long-term changes in phytoplankton composition in seven Canadian Shield lakes in response to multiple anthropogenic stressors. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 846-861.	1.4	61
42	Recreational boats as a vector of secondary spread for aquatic invasive species and native crustacean zooplankton. Biological Invasions, 2013, 15, 509-519.	2.4	60
43	Impact ofBythotrephes longimanuson zooplankton assemblages of Harp Lake, Canada: an assessment based on predator consumption and prey production. Freshwater Biology, 2001, 46, 241-251.	2.4	59
44	Auditing the Accuracy of a Volunteer-Based Surveillance Program for an Aquatic Invader Bythotrephes. Environmental Monitoring and Assessment, 2004, 91, 17-26.	2.7	59
45	Regional climatic drivers of synchronous zooplankton dynamics in north-temperate lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 878-889.	1.4	59
46	Bythotrephes cederstroemi (Schoedler) in Muskoka Lakes: First Records of the European Invader in Inland Lakes in Canada. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 422-426.	1.4	57
47	Recovery of Crustacean Zooplankton Communities from Acidification in Killarney Park, Ontario, 1971â€“2000: pH 6 As a Recovery Goal. Ambio, 2003, 32, 203-207.	5.5	57
48	Acid rain â€” perspectives on lake recovery. Hydrobiologia, 1998, 6, 207-216.	0.9	54
49	pH 6 as the threshold to use in critical load modeling for zooplankton community change with acidification in lakes of south-central Ontario: accounting for morphometry and geography. Canadian Journal of Fisheries and Aquatic Sciences, 2003, 60, 151-158.	1.4	53
50	The spread, establishment and impacts of the spiny water flea, Bythotrephes longimanus, in temperate North America: a synopsis of the special issue. Biological Invasions, 2011, 13, 2423-2432.	2.4	53
51	Interannual variability and species turnover of crustacean zooplankton in Shield lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 162-172.	1.4	51
52	Food Quantity Affects the Sensitivity of Daphnia to Road Salt. Environmental Science & Technology, 2015, 49, 4673-4680.	10.0	50
53	Omnivory of the larval phantom midge (Chaoborus spp.) and its potential significance for freshwater planktonic food webs. Canadian Journal of Zoology, 1994, 72, 2055-2065.	1.0	49
54	Climate change drives coherent trends in physics and oxygen content in North American lakes. Climatic Change, 2014, 124, 285-299.	3.6	49

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55	Water quality changes in south-central Ontario lakes and the role of local factors in regulating lake response to regional stressors. Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 1038-1050.	1.4	48
56	Title is missing!. Hydrobiologia, 2000, 432, 195-205.	2.0	46
57	Comparing annual population growth estimates of the exotic invader Bythotrephes by using sediment and plankton records. Limnology and Oceanography, 1997, 42, 112-120.	3.1	44
58	Predation and refugia: implications for Chaoborus abundance and species composition. Freshwater Biology, 2003, 48, 1421-1431.	2.4	44
59	Littoral Microcrustacean (Cladocera and Copepoda) Indicators of Acidification in Canadian Shield Lakes. Ambio, 2003, 32, 208-213.	5.5	44
60	Calibrating the Dynamic Reservoir Simulation Model (DYRESM) and filling required data gaps for one-dimensional thermal profile predictions in a boreal lake. Limnology and Oceanography: Methods, 2007, 5, 484-494.	2.0	43
61	Using temporal coherence to determine the response to climate change in Boreal Shield lakes. Environmental Monitoring and Assessment, 2003, 88, 365-388.	2.7	42
62	Demographic Stochasticity, Environmental Variability, and Windows of Invasion Risk for Bythotrephes Longimanus in North America. Biological Invasions, 2006, 8, 843-861.	2.4	39
63	Richness of aquatic macrophyte floras of soft water lakes of differing pH and trace metal content in Ontario, Canada. Aquatic Botany, 1985, 23, 27-40.	1.6	38
64	Paleolimnological assessment of damage to fish communities in three acidic, Canadian Shield lakes. Fisheries Research, 1994, 19, 157-177.	1.7	38
65	Title is missing!. , 1997, 361, 157-168.		38
66	Modification of the diel vertical migration of Bythotrephes longimanus by the cold-water planktivore, Coregonus artedi. Freshwater Biology, 2008, 53, 981-995.	2.4	38
67	Relative value of limnological, geographic, and human use variables as predictors of the presence of Bythotrephes longimanus in Canadian Shield lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2010, 67, 462-472.	1.4	37
68	Metering filtration efficiency of freshwater zooplankton hauls: reminders from the past. Journal of Plankton Research, 1993, 15, 57-65.	1.8	35
69	Risk analysis of dissolved organic matter-mediated ultraviolet B exposure in Canadian inland waters. Canadian Journal of Fisheries and Aquatic Sciences, 2004, 61, 2511-2521.	1.4	35
70	Assessing potential for recovery of biotic richness and indicator species due to changes in acidic deposition and lake pH in five areas of southeastern Canada. Environmental Monitoring and Assessment, 2003, 88, 53-101.	2.7	34
71	Application of Biotic Ligand and Toxic Unit Modeling Approaches to Predict Improvements in Zooplankton Species Richness in Smelter-Damaged Lakes near Sudbury, Ontario. Environmental Science & Technology, 2012, 46, 1641-1649.	10.0	34
72	Second generation biofuels and bioinvasions: An evaluation of invasive risks and policy responses in the United States and Canada. Renewable and Sustainable Energy Reviews, 2013, 27, 30-42.	16.4	34

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73	Variations in Epilimnion Thickness in Small Boreal Shield Lakes: Relationships with Transparency, Weather and Acidification. Environmental Monitoring and Assessment, 2006, 115, 419-431.	2.7	33
74	An introduction to the Dorset special issue: transforming understanding of factors that regulate aquatic ecosystems on the southern Canadian Shield. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 781-785.	1.4	33
75	Natural changes in the planktonic rotifera of a small acid lake near Sudbury, Ontario following water quality improvements. Water, Air, and Soil Pollution, 1986, 31, 791-797.	2.4	32
76	Temporal and spatial concordance in community composition of phytoplankton, zooplankton, macroinvertebrate, crayfish, and fish on the Precambrian Shield. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 919-932.	1.4	31
77	Climate warming restructures an aquatic food web over 28Âyears. Global Change Biology, 2020, 26, 6852-6866.	9.5	31
78	Prevalence and inferred effects of microsporidia of Holopedium gibberum (Crustacea:Cladocera) in a Canadian Shield lake. Journal of Plankton Research, 1988, 10, 875-886.	1.8	29
79	Predicting chronic copper and nickel reproductive toxicity to Daphnia pulex-pulicaria from whole-animal metabolic profiles. Environmental Pollution, 2016, 212, 325-329.	7.5	29
80	Methods for rearing the invasive zooplankterBythotrephesin the laboratory. Limnology and Oceanography: Methods, 2010, 8, 552-561.	2.0	28
81	Cadmium concentrations of crustacean zooplankton of acidified and nonacidified Canadian Shield lakes. Environmental Science & Technology, 1990, 24, 1367-1372.	10.0	25
82	Research needs for the management of water quality issues, particularly phosphorus and oxygen concentrations, related to salmonid cage aquaculture in Canadian freshwaters. Environmental Reviews, 2005, 13, 1-19.	4.5	25
83	Nearshore human interventions reverse patterns of decline in lake calcium budgets in central Ontario as demonstrated by massâ€balance analyses. Water Resources Research, 2011, 47, .	4.2	24
84	Decadalâ€scale regional changes in <scp>C</scp>anadian freshwater zooplankton: the likely consequence of complex interactions among multiple anthropogenic stressors. Freshwater Biology, 2013, 58, 1366-1378.	2.4	24
85	Are Chaoborus larvae more abundant in acidified than in non-acidified lakes in Central Canada?. Ecography, 1985, 8, 93-99.	4.5	23
86	Increased abundance of the non-indigenous zooplanktivore, Bythotrephes longimanus, is strongly correlated with greater spring prey availability in Canadian Shield lakes. Biological Invasions, 2011, 13, 2605-2619.	2.4	23
87	Consequences of calcium decline on the embryogenesis and life history of Daphnia magna. Journal of Experimental Biology, 2015, 218, 2005-14.	1.7	23
88	Direct and indirect effects of an invasive planktonic predator on pelagic food webs. Limnology and Oceanography, 2011, 56, 179-192.	3.1	22
89	Control of cadmium levels in Holopedium gibberum (crustacea, cladocera) in canadian shield lakes. Environmental Toxicology and Chemistry, 1990, 9, 895-908.	4.3	21
90	A review of the effects ofBythotrephes longimanusand calcium decline on zooplankton communities â€" can interactive effects be predicted?. Environmental Reviews, 2015, 23, 395-413.	4.5	21

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91	Calcium content of littoral Cladocera in three softwater lakes of the Canadian Shield. Hydrobiologia, 2011, 678, 77-83.	2.0	20
92	Temperature-dependent Allee effects in a stage-structured model for Bythotrephes establishment. Biological Invasions, 2011, 13, 2477-2497.	2.4	19
93	Gauging recovery of zooplankton from historical acid and metal contamination: the influence of temporal changes in restoration targets. Journal of Applied Ecology, 2013, 50, 107-118.	4.0	19
94	Are legislative frameworks in Canada and Ontario up to the task of addressing invasive alien species?. Biological Invasions, 2014, 16, 1325-1344.	2.4	19
95	Metabolomics confirms that dissolved organic carbon mitigates copper toxicity. Environmental Toxicology and Chemistry, 2016, 35, 635-644.	4.3	19
96	Indirect food web effects of Bythotrephes invasion: responses by the rotifer Conochilus in Harp Lake, Canada. Biological Invasions, 2007, 9, 233-243.	2.4	17
97	Examination of direct daytime predation by Coregonus artedi on Bythotrephes longimanus in Harp Lake, Ontario, Canada: no evidence for the refuge hypothesis. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 449-459.	1.4	17
98	Shifting invertebrate zooplanktivores: watershed-level replacement of the native Leptodora by the non-indigenous Bythotrephes in Canadian Shield lakes. Biological Invasions, 2011, 13, 115-123.	2.4	17
99	Synergistic interactions of biotic and abiotic environmental stressors on gene expression. Genome, 2015, 58, 99-109.	2.0	17
100	Changes in body dimensions of larval Chaoborus in ethanol and formalin. Journal of Plankton Research, 1994, 16, 1601-1608.	1.8	16
101	UVR Sensitivity of Chaoborus Larvae. Ambio, 2003, 32, 219-224.	5.5	16
102	Stable isotope variability of mesoâ€zooplankton along a gradient of dissolved organic carbon. Freshwater Biology, 2009, 54, 1705-1719.	2.4	16
103	Dynamics of the invasive spiny water flea, Bythotrephes longimanus, in Lake Simcoe, Ontario, Canada. Inland Waters, 2013, 3, 75-92.	2.2	15
104	The FLAMES medium: a new, soft-water culture and bioassay medium for Cladocera. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2008, 30, 265-271.	0.1	14
105	Will environmental calcium declines hinderBythotrephesestablishment success in Canadian Shield lakes?. Canadian Journal of Fisheries and Aquatic Sciences, 2012, 69, 810-820.	1.4	13
106	Differential shortâ€•and longâ€term effects of an invertebrate predator on zooplankton communities in invaded and native lakes. Diversity and Distributions, 2013, 19, 396-410.	4.1	12
107	On Sudbury-Area Wind Speedsâ€"A Tale of Forest Regeneration. Journal of Applied Meteorology and Climatology, 2007, 46, 1645-1654.	1.5	11
108	Models of lake invasibility by Bythotrephes longimanus, a non-indigenous zooplankton. Biological Invasions, 2011, 13, 2459-2476.	2.4	11

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109	Validation and calibration of probabilistic predictions in ecology. Methods in Ecology and Evolution, 2014, 5, 1023-1032.	5.2	10
110	Calcium and sodium as regulators of the recovery of four Daphnia species along a gradient of metal and base cations in metal contaminated lakes in Sudbury, Ontario, Canada. Journal of Limnology, 2016, 75, .	1.1	10
111	CONTROL OF CADMIUM LEVELS IN HOLOPEDIUM GIBBERUM (CRUSTACEA, CLADOCERA) IN CANADIAN SHIELD LAKES. Environmental Toxicology and Chemistry, 1990, 9, 895.	4.3	10
112	Title is missing!. Aquatic Ecology, 2000, 34, 127-136.	1.5	8
113	Acidity versus habitat structure as regulators of littoral microcrustacean assemblages. Freshwater Biology, 2007, 53, 071026235033001-???.	2.4	8
114	Calcium levels in Daphnia ephippia cannot provide a useful paleolimnological indicator of historical lakewater Ca concentrations. Journal of Paleolimnology, 2008, 39, 421-425.	1.6	7
115	Accumulated Organic Debris in Catch Basins Improves the Efficacy of S-Methoprene Against Mosquitoes in Toronto, Ontario, Canada. Journal of the American Mosquito Control Association, 2010, 26, 172-182.	0.7	7
116	Examining shifts in zooplankton community variability following biological invasion. Limnology and Oceanography, 2013, 58, 399-408.	3.1	7
117	Arrive, survive and thrive: essential stages in the re-colonization and recovery of zooplankton in urban lakes in Sudbury, Canada. Journal of Limnology, 2016, 75, .	1.1	7
118	Past, present and future of the fish community of Lake Orta (Italy), one of the worldâ€™s largest acidified lakes. Journal of Limnology, 2016, 75, .	1.1	7
119	Mechanisms underlying recovery of zooplankton in Lake Orta after liming. Journal of Limnology, 2016, 75, .	1.1	7
120	Could a residential wood ash recycling programme be part of the solution to calcium decline in lakes and forests in Muskoka (Ontario, Canada)?. Facets, 2019, 4, 69-90.	2.4	7
121	Eicosapentaenoic acid limitation decreases weight and fecundity of the invading predator Bythotrephes longimanus. Journal of Plankton Research, 2014, 36, 567-577.	1.8	6
122	Ca2+ levels in Daphnia hemolymph may explain occurrences of daphniid species along recent Ca gradients in Canadian soft-water lakes.. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 218, 8-15.	1.8	6
123	Contribution of zooplankton to the total cadmium pool in Canadian shield lakes varying in acidity. Water, Air, and Soil Pollution, 1991, 57-58, 635-644.	2.4	5
124	Photoresponses of late instar Chaoborus punctipennis larvae to UVR. Aquatic Ecology, 2003, 37, 257-265.	1.5	5
125	Developmental differences and a test for reciprocity in the tolerance of Chaoborus punctipennis larvae to ultraviolet radiation. Canadian Journal of Fisheries and Aquatic Sciences, 2005, 62, 483-491.	1.4	5
126	Liming of Sudbury Lakes: Lessons for Recovery of Aquatic Biota from Acidification. Springer Series on Environmental Management, 1995, , 195-204.	0.3	5

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127	Secondary analysis of relationships between pelagic invertebrate predators and phytoplankton abundance and water clarity. Freshwater Biology, 1995, 34, 255-261.	2.4	4
128	What have we learned about ecological recovery from liming interventions of acid lakes in Canada and Italy?. Journal of Limnology, 2016, 75, .	1.1	3
129	Acid Mining Lakes. Journal of Paleolimnology, 2001, 26, 109-111.	1.6	0
130	Corrigendum to â€œThe Future of Species Invasions in the Great Lakes-St. Lawrence River Basinâ€•[J. Great Lakes Res. 41 314â€“314]. Journal of Great Lakes Research, 2015, 41, 197.	1.9	0