D W Schindler

List of Publications by Year
in descending order

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110 papers	17,692 citations	16451 64 h-index	33894 99 g-index
113 all docs	113 docs citations	113 times ranked	10305 citing authors

#	Article	IF	Citations
1	Evolution of Phosphorus Limitation in Lakes. Science, 1977, 195, 260-262.	12.6	2,203
2	Eutrophication of lakes cannot be controlled by reducing nitrogen input: Results of a 37-year whole-ecosystem experiment. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 11254-11258.	7.1	1,354
3	Recent advances in the understanding and management of eutrophication. Limnology and Oceanography, 2006, 51, 356-363.	3.1	850
4	Eutrophication and Recovery in Experimental Lakes: Implications for Lake Management. Science, 1974, 184, 897-899.	12.6	831
5	Effects of Acid Rain on Freshwater Ecosystems. Science, 1988, 239, 149-157.	12.6	590
6	The cumulative effects of climate warming and other human stresses on Canadian freshwaters in the new millennium. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 18-29.	1.4	505
7	Detecting Ecosystem Responses to Anthropogenic Stress. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, s6-s25.	1.4	470
8	Long-Term Ecosystem Stress: The Effects of Years of Experimental Acidification on a Small Lake. Science, 1985, 228, 1395-1401.	12.6	467
9	Factors regulating phytoplankton production and standing crop in the world's freshwaters. Limnology and Oceanography, 1978, 23, 478-486.	3.1	463
10	Effects of Climatic Warming on Lakes of the Central Boreal Forest. Science, 1990, 250, 967-970.	12.6	443
11	An impending water crisis in Canada's western prairie provinces. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 7210-7216.	7.1	421
12	POTENTIAL EFFECTS OF CLIMATE CHANGES ON AQUATIC SYSTEMS: LAURENTIAN GREAT LAKES AND PRECAMBRIAN SHIELD REGION. Hydrological Processes, 1997, 11, 825-871.	2.6	396
13	Oil sands development contributes elements toxic at low concentrations to the Athabasca River and its tributaries. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16178-16183.	7.1	377
14	Ecosystem Experiments. Science, 1995, 269, 324-327.	12.6	262
15	Lakes as sentinels and integrators for the effects of climate change on watersheds, airsheds, and landscapes. Limnology and Oceanography, 2009, 54, 2349-2358.	3.1	239
16	Phosphate concentrations in lakes. Nature, 2000, 406, 54-56.	27.8	238
17	Prediction of biological acid neutralization in acid-sensitive lakes. Biogeochemistry, 1987, 3, 129-140.	3.5	232
18	Sentinels of Change. Science, 2009, 323, 887-888.	12.6	228

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19	Experimental Acidification of Lake 223, Experimental Lakes Area: Background Data and the First Three Years of Acidification. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 342-354.	1.4	205
20	Oil sands mining and reclamation cause massive loss of peatland and stored carbon. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4933-4937.	7.1	203
21	Geography and Bathymetry of Selected Lake Basins, Experimental Lakes Area, Northwestern Ontario. Journal of the Fisheries Research Board of Canada, 1971, 28, 139-155.	0.9	193
22	Eutrophication of Lake 227, Experimental Lakes Area, Northwestern Ontario, by Addition of Phosphate and Nitrate. Journal of the Fisheries Research Board of Canada, 1971, 28, 1763-1782.	0.9	191
23	Effects of Acidification on Mobilization of Heavy Metals and Radionuclides from the Sediments of a Freshwater Lake. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 373-377.	1.4	183
24	The biosphere as an increasing sink for atmospheric carbon: Estimates from increased nitrogen depostion. Global Biogeochemical Cycles, 1993, 7, 717-733.	4.9	177
25	Natural Water and Chemical Budgets for a Small Precambrian Lake Basin in Central Canada. Journal of the Fisheries Research Board of Canada, 1976, 33, 2526-2543.	0.9	166
26	Melting Glaciers: A Major Source of Persistent Organochlorines to Subalpine Bow Lake in Banff National Park, Canada. Ambio, 2001, 30, 410-415.	5.5	165
27	Primary Production and Phytoplankton in the Experimental Lakes Area, Northwestern Ontario, and other Low-Carbonate Waters, and a Liquid Scintillation Method for Determining ¹⁴C Activity in Photosynthesis. Journal of the Fisheries Research Board of Canada, 1971, 28, 189-201.	0.9	161
28	High Concentrations of Toxaphene in Fishes from a Subarctic Lake. Science, 1995, 269, 240-242.	12.6	157
29	Natural Sources of Acid Neutralizing Capacity in Low Alkalinity Lakes of the Precambrian Shield. Science, 1986, 232, 844-847.	12.6	156
30	CARBON, NITROGEN, AND PHOSPHORUS AND THE EUTROPHICATION OF FRESHWATER LAKES¹. Journal of Phycology, 1971, 7, 321-329.	2.3	154
31	Eutrophication of Lake 227 by Addition of Phosphate and Nitrate: the Second, Third, and Fourth Years of Enrichment, 1970, 1971, and 1972. Journal of the Fisheries Research Board of Canada, 1973, 30, 1415-1440.	0.9	152
32	Phosphorus Input and Its Consequences for Phytoplankton Standing Crop and Production in the Experimental Lakes Area and in Similar Lakes. Journal of the Fisheries Research Board of Canada, 1978, 35, 190-196.	0.9	148
33	Effects of Multiple Fires on Nutrient Yields from Streams Draining Boreal Forest and Fen Watersheds: Nitrogen and Phosphorus. Canadian Journal of Fisheries and Aquatic Sciences, 1992, 49, 584-596.	1.4	146
34	Acidic deposition: Effects on aquatic ecosystems. C R C Critical Reviews in Environmental Control, 1984, 13, 167-194.	1.0	138
35	Preliminary Chemical Characterization of Waters in the Experimental Lakes Area, Northwestern Ontario. Journal of the Fisheries Research Board of Canada, 1971, 28, 171-187.	0.9	137
36	Recent climate extremes alter alpine lake ecosystems. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12927-12931.	7.1	135

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37	Effects of a Windstorm and Forest Fire on Chemical Losses from Forested Watersheds and on the Quality of Receiving Streams. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 328-334.	1.4	133
38	Vertical diffusion rates determined by tritium tracer experiments in the thermocline and hypolimnion of two lakes1,2. Limnology and Oceanography, 1980, 25, 201-218.	3.1	126
39	Atmospheric Carbon Dioxide: Its Role in Maintaining Phytoplankton Standing Crops. Science, 1972, 177, 1192-1194.	12.6	125
40	Natural and man-caused factors affecting the abundance and cycling of dissolved organic substances in precambrian shield lakes. Hydrobiologia, 1992, 229, 1-21.	2.0	122
41	Influence of nitrogen to phosphorus supply ratios and physicochemical conditions on cyanobacteria and phytoplankton species composition in the Experimental Lakes Area, Canada. Canadian Journal of Fisheries and Aquatic Sciences, 1999, 56, 451-466.	1.4	122
42	Forest fire increases mercury accumulation by fishes via food web restructuring and increased mercury inputs. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19380-19385.	7.1	120
43	Diurnal Variation of Dissolved Inorganic Carbon and its Use in Estimating Primary Production and CO₂ Invasion in Lake 227. Journal of the Fisheries Research Board of Canada, 1973, 30, 1501-1510.	0.9	118
44	Nutrient Supply and Primary Production in Clear Lake, Eastern Ontario. Journal of the Fisheries Research Board of Canada, 1970, 27, 2009-2036.	0.9	117
45	Fates of Metal Radiotracers Added to a Whole Lake: Sedimentâ€“Water Interactions. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 378-386.	1.4	114
46	The significance of in-lake production of alkalinity. Water, Air, and Soil Pollution, 1986, 30, 931-944.	2.4	112
47	Biological, chemical and physical responses of lakes to experimental acidification. Water, Air, and Soil Pollution, 1982, 18, 259-271.	2.4	111
48	Eutrophication: More Nitrogen Data Needed. Science, 2009, 324, 721-722.	12.6	109
49	CARBON, NITROGEN, AND PHOSPHORUS AND THE EUTROPHICATION OF FRESHWATER LAKES1. Journal of Phycology, 1971, 7, 321-329.	2.3	105
50	A Hypothesis to Explain Differences and Similarities Among Lakes in the Experimental Lakes Area, Northwestern Ontario. Journal of the Fisheries Research Board of Canada, 1971, 28, 295-301.	0.9	103
51	Phosphorus, Nitrogen, and Carbon Dynamics of Experimental Lake 303 during Recovery from Eutrophication. Canadian Journal of Fisheries and Aquatic Sciences, 1989, 46, 2-10.	1.4	101
52	Restoration of the food web of an alpine lake following fish stocking. Limnology and Oceanography, 1999, 44, 127-136.	3.1	100
53	Title is missing!. Biogeochemistry, 1997, 36, 1-8.	3.5	95
54	Light, Temperature, and Oxygen Regimes of Selected Lakes in the Experimental Lakes Area, Northwestern Ontario. Journal of the Fisheries Research Board of Canada, 1971, 28, 157-169.	0.9	93

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55	Fossil Pigment Records of Phytoplankton in Trout-stocked Alpine Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1994, 51, 2411-2423.	1.4	87
56	Disruption of the Nitrogen Cycle in Acidified Lakes. Science, 1988, 240, 1515-1517.	12.6	85
57	Effects of forest fire and drought on acidity of a base-poor boreal forest stream: similarities between climatic warming and acidic precipitation. Biogeochemistry, 1992, 17, 191-204.	3.5	83
58	Exchange of Nutrients Between Sediments and Water After 15 Years of Experimental Eutrophication. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, s26-s33.	1.4	72
59	A comparison of the acidification efficiencies of nitric and sulfuric acids by two whole-lake addition experiments. Limnology and Oceanography, 1990, 35, 663-679.	3.1	72
60	Calorific Values of Microcrustacea. Science, 1963, 140, 1394-1396.	12.6	71
61	The Cumulative Effects of Climate Warming and Other Human Stresses on Canadian Freshwaters in the New Millennium. , 2001, , 165-186.		71
62	A Liquid Scintillation Method for measuring Carbon-14 Uptake in Photosynthesis. Nature, 1966, 211, 844-845.	27.8	69
63	Effects of lake acidification on rates of organic matter decomposition in sediments. Limnology and Oceanography, 1984, 29, 687-694.	3.1	69
64	Modification of the N : P ratio in lakes by in situ processes. Limnology and Oceanography, 1992, 37, 917-935.	3.1	66
65	Production of Epilithiphyton in Two Lakes of the Experimental Lakes Area, Northwestern Ontario. Journal of the Fisheries Research Board of Canada, 1973, 30, 1511-1524.	0.9	65
66	Acidification and alkalinization of lakes by experimental addition of nitrogen compounds. Biogeochemistry, 1985, 1, 117-133.	3.5	63
67	Whole-Lake Radiocarbon Experiment in an Oligotrophic Lake at the Experimental Lakes Area, Northwestern Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 454-463.	1.4	56
68	A Radiotracer Study of Phosphorus Cycling in a Eutrophic Canadian Shield Lake, Lake 227, Northwestern Ontario. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 366-378.	1.4	55
69	Assessing the Potential Extent of Damage to Inland Lakes in Eastern Canada due to Acidic Deposition. III. Predicted Impacts on Species Richness in Seven Groups of Aquatic Biota. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 821-830.	1.4	54
70	Radiochemical Analysis of Orthophosphate Concentrations and Seasonal Changes in the Flux of Orthophosphate to Seston in Two Canadian Shield Lakes. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 479-487.	1.4	53
71	Comparisons between experimentally- and atmospherically-acidified lakes during stress and recovery. Proceedings of the Royal Society of Edinburgh Section B Biological Sciences, 1990, 97, 193-226.	0.2	53
72	Biological Pollutants: Alien Fishes in Mountain Lakes. Water, Air and Soil Pollution, 2002, 2, 379-397.	0.8	53

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73	Interaction of acid rain and global changes: Effects on terrestrial and aquatic ecosystems. Water, Air, and Soil Pollution, 1995, 85, 89-99.	2.4	52
74	Gas-Exchange Rates in a Small Lake as Determined by the Radon Method. Journal of the Fisheries Research Board of Canada, 1973, 30, 1475-1484.	0.9	51
75	Seasonal Calorific Values of Freshwater Zooplankton, as Determined with a Phillipson Bomb Calorimeter Modified for Small Samples. Journal of the Fisheries Research Board of Canada, 1971, 28, 559-564.	0.9	50
76	Decline of Mysis relicta During the Acidification of Lake 223. Canadian Journal of Fisheries and Aquatic Sciences, 1983, 40, 1905-1911.	1.4	50
77	Natural and man-caused factors affecting the abundance and cycling of dissolved organic substances in precambrian shield lakes. , 1992, , 1-21.		49
78	Biological indicators of lake acidification. Water, Air, and Soil Pollution, 1986, 30, 779-789.	2.4	45
79	Historical Status of Fish Populations in Canadian Rocky Mountain Lakes Inferred from Subfossil Chaoborus (Diptera: Chaoboridae) Mandibles. Canadian Journal of Fisheries and Aquatic Sciences, 1994, 51, 1376-1383.	1.4	45
80	Chlorobornanes in Sediments and Fish 30 Years after Toxaphene Treatment of Lakes. Environmental Science & Technology, 1995, 29, 2490-2495.	10.0	44
81	Whole-lake eutrophication experiments with phosphorus, nitrogen and carbon. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1975, 19, 3221-3231.	0.1	43
82	Iron Compounds in Lake Sediments. Canadian Journal of Earth Sciences, 1974, 11, 1489-1493.	1.3	42
83	Hypolimnion Injection of Nutrient Effluents as a Method for Reducing Eutrophication. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 320-327.	1.4	42
84	Disruption of littoral algal associations by Experimental Lake acidification. Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 2238-2250.	1.4	37
85	Direct and indirect effects of predation by a calanoid copepod (subgenus: Hesperodiaptomus) and of nytrients in a fishless alpine lake. Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 2628-2638.	1.4	36
86	Atmospheric Deposition of Nutrients and Major Ions at the Experimental Lakes Area in Northwestern Ontario, 1970 to 1982. Canadian Journal of Fisheries and Aquatic Sciences, 1987, 44, s206-s214.	1.4	34
87	Evolution of the Experimental Lakes Project. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 313-319.	1.4	29
88	Losses of biota from American aquatic communities due to acid rain. Environmental Monitoring and Assessment, 1989, 12, 269-285.	2.7	25
89	Disruption of sulfur cycling and acid neutralization in lakes at low pH. Biogeochemistry, 1995, 28, 115-130.	3.5	25
90	Confusion over the origin of alkalinity in lakes. Limnology and Oceanography, 1988, 33, 1637-1640.	3.1	23

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91	Studies of Eutrophication in Lakes and Their Relevance to the Estuarine Environment. , 1981, , 71-82.		22
92	Biological, Chemical and Physical Responses of Lakes to Experimental Acidification. , 1982, , 259-271.		19
93	The cultural eutrophication of Lac la Biche, Alberta, Canada: a paleoecological study. Canadian Journal of Fisheries and Aquatic Sciences, 2008, 65, 2211-2223.	1.4	18
94	A View of NAPAP from North of the Border. , 1992, 2, 124-130.		17
95	A personal history of the Experimental Lakes ProjectThis paper is part of the series â€œForty Years of Aquatic Research at the Experimental Lakes Areaâ€•. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1837-1847.	1.4	17
96	Reply to Howarth and Paerl: Is control of both nitrogen and phosphorus necessary?. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, .	7.1	16
97	Methane addition to an arctic lake in winter. Limnology and Oceanography, 1980, 25, 100-113.	3.1	14
98	Liming to Restore Acidified Lakes and Streams: A Typical Approach to Restoring Damaged Ecosystems?. Restoration Ecology, 1997, 5, 1-6.	2.9	14
99	Interactions between Sediments and Overlying Waters in an Experimentally Eutrophied Pre-Cambrian Shield Lake. , 1976, , 235-243.		13
100	Biological Indicators of Lake Acidification. , 1986, , 779-789.		13
101	Experimental studies of chemical stressors on whole lake ecosystems. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1988, 23, 11-41.	0.1	10
102	BIOLOGICAL AND CHEMICAL MECHANISMS IN EUTROPHICATION OF FRESHWATER LAKES. Annals of the New York Academy of Sciences, 1974, 250, 129-135.	3.8	8
103	Comment on â€œDynamic model of inâ€lake alkalinity generationâ€•by L. A. Baker and P. L. Brezonik. Water Resources Research, 1988, 24, 1825-1827.	4.2	5
104	Different interpretations of the importance of internal alkalinity generation in the alkalinity budgets of lakes and watersheds: A response to Schaffer, P. W., Hooger, R. P., Eshleman, K. N., and Church, M. R.: Water, air and soil pollut, 1988, 39, 263. Water, Air, and Soil Pollution, 1989, 47, 175-177.	2.4	5
105	Sources of Alkalinity in Precambrian Shield Watersheds Under Natural Conditions and After Fire or Acidification. , 1987, , 531-548.		5
106	Comments on the Sustainable Biosphere Initiative. Conservation Biology, 1991, 5, 550-551.	4.7	4
107	Reply to Bryhn and HÃ¥kanson: Models for the Baltic agree with our experiments and observations in lakes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, .	7.1	1
108	VII.5 Managing Nutrient Mobilization and Eutrophication. , 2009, , 712-717.		0

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109	The Significance of In-Lake Production of Alkalinity. , 1986, , 931-944.		0
110	Freshwaters as Waste Disposal Systems: An Interpretation of the Experimental Lakes Area, Canada Whole-Ecosystem Experiments. , 1986, , 139-163.		0