

Frederick J Wrona

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8088146/publications.pdf>

Version: 2024-02-01

71
papers

3,391
citations

117453

34
h-index

143772

57
g-index

73
all docs

73
docs citations

73
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate Change Effects on Aquatic Biota, Ecosystem Structure and Function. <i>Ambio</i> , 2006, 35, 359-369.	2.8	235
2	Climate Change Effects on Hydroecology of Arctic Freshwater Ecosystems. <i>Ambio</i> , 2006, 35, 347-358.	2.8	232
3	Group Size and Predation Risk: A Field Analysis of Encounter and Dilution Effects. <i>American Naturalist</i> , 1991, 137, 186-201.	1.0	184
4	General Effects of Climate Change on Arctic Fishes and Fish Populations. <i>Ambio</i> , 2006, 35, 370-380.	2.8	180
5	Transitions in Arctic ecosystems: Ecological implications of a changing hydrological regime. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 650-674.	1.3	167
6	Response of stream benthos and drift to fine sediment deposition versus transport. <i>Canadian Journal of Zoology</i> , 1986, 64, 1345-1351.	0.4	138
7	An Overview of Effects of Climate Change on Selected Arctic Freshwater and Anadromous Fishes. <i>Ambio</i> , 2006, 35, 381-387.	2.8	129
8	Atmospheric Deposition of Mercury and Methylmercury to Landscapes and Waterbodies of the Athabasca Oil Sands Region. <i>Environmental Science & Technology</i> , 2014, 48, 7374-7383.	4.6	116
9	Chemical fingerprinting of naphthenic acids and oil sands process watersâ€”A review of analytical methods for environmental samples. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 1145-1163.	0.9	103
10	The impacts of pharmaceutical drugs under ocean acidification: New data on single and combined long-term effects of carbamazepine on <i>Scrobicularia plana</i> . <i>Science of the Total Environment</i> , 2016, 541, 977-985.	3.9	80
11	Caffeine impacts in the clam <i>Ruditapes philippinarum</i> : Alterations on energy reserves, metabolic activity and oxidative stress biomarkers. <i>Chemosphere</i> , 2016, 160, 95-103.	4.2	77
12	The effects of carbamazepine on macroinvertebrate species: Comparing bivalves and polychaetes biochemical responses. <i>Water Research</i> , 2015, 85, 137-147.	5.3	74
13	Physiological and biochemical alterations induced in the mussel <i>Mytilus galloprovincialis</i> after short and long-term exposure to carbamazepine. <i>Water Research</i> , 2017, 117, 102-114.	5.3	71
14	Mechanisms of algal patch depletion: importance of consumptive and non-consumptive losses in mayfly-diatom systems. <i>Oecologia</i> , 1991, 85, 343-348.	0.9	64
15	Stimulation of increased short-term growth and development of mayflies by pulp mill effluent. <i>Environmental Toxicology and Chemistry</i> , 1995, 14, 1529-1541.	2.2	61
16	Climate change: the potential for latitudinal effects on algal biomass in aquatic ecosystems. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2003, 60, 635-639.	0.7	59
17	General Features of the Arctic Relevant to Climate Change in Freshwater Ecosystems. <i>Ambio</i> , 2006, 35, 330-338.	2.8	58
18	Carbon dynamics in lakes of the boreal forest under a changing climate. <i>Environmental Reviews</i> , 2007, 15, 175-189.	2.1	55

#	ARTICLE	IF	CITATIONS
19	Effects of retrogressive permafrost thaw slumping on sediment chemistry and submerged macrophytes in Arctic tundra lakes. <i>Freshwater Biology</i> , 2010, 55, 2347-2358.	1.2	55
20	The influence of temperature and food chain length on plankton predator-prey dynamics. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 586-595.	0.7	55
21	Implications of Climate Change for Northern Canada: Freshwater, Marine, and Terrestrial Ecosystems. <i>Ambio</i> , 2009, 38, 282-289.	2.8	54
22	Toxic effects of the antihistamine cetirizine in mussel <i>Mytilus galloprovincialis</i> . <i>Water Research</i> , 2017, 114, 316-326.	5.3	52
23	Physiological and biochemical impacts induced by mercury pollution and seawater acidification in <i>Hediste diversicolor</i> . <i>Science of the Total Environment</i> , 2017, 595, 691-701.	3.9	51
24	Climate Impacts on Arctic Freshwater Ecosystems and Fisheries: Background, Rationale and Approach of the Arctic Climate Impact Assessment (ACIA). <i>Ambio</i> , 2006, 35, 326-329.	2.8	47
25	How life history influences the responses of the clam <i>Scrobicularia plana</i> to the combined impacts of carbamazepine and pH decrease. <i>Environmental Pollution</i> , 2015, 202, 205-214.	3.7	45
26	Multiple dynamics in a single predator-prey system: experimental effects of food quality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1223-1230.	1.2	44
27	Biochemical alterations induced in <i>Hediste diversicolor</i> under seawater acidification conditions. <i>Marine Environmental Research</i> , 2016, 117, 75-84.	1.1	42
28	Long-term exposure of polychaetes to caffeine: Biochemical alterations induced in <i>Diopatra neapolitana</i> and <i>Arenicola marina</i> . <i>Environmental Pollution</i> , 2016, 214, 456-463.	3.7	40
29	Stage-structured cycles promote genetic diversity in a predator-prey system of <i>Daphnia</i> and algae. <i>Nature</i> , 2005, 433, 413-417.	13.7	39
30	Changes in Nutrient Loading in an Agricultural Watershed and Its Effects on Water Quality and Stream Biota. <i>Hydrobiologia</i> , 2006, 556, 399-415.	1.0	39
31	Effects of Climate Change and UV Radiation on Fisheries for Arctic Freshwater and Anadromous Species. <i>Ambio</i> , 2006, 35, 402-410.	2.8	39
32	Northern Rivers Ecosystem Initiative: Nutrients and Dissolved Oxygen - Issues and Impacts. <i>Environmental Monitoring and Assessment</i> , 2006, 113, 117-141.	1.3	36
33	Cumulative effects assessment for the Northern River Basins Study. <i>Hydrobiologia</i> , 2000, 8, 87-94.	1.0	34
34	The Northern River Basins Study: context and design. <i>Hydrobiologia</i> , 2000, 8, 7-16.	1.0	34
35	Surface metal adsorption on zooplankton carapaces: implications for exposure and effects in consumer organisms. <i>Environmental Pollution</i> , 2003, 122, 159-167.	3.7	34
36	The effects of salinity changes on the Polychaete <i>Diopatra neapolitana</i> : Impacts on regenerative capacity and biochemical markers. <i>Aquatic Toxicology</i> , 2015, 163, 167-176.	1.9	34

#	ARTICLE	IF	CITATIONS
37	An Improved Flow-through Respirometer for Aquatic Macroinvertebrate Bioenergetic Research. Canadian Journal of Fisheries and Aquatic Sciences, 1984, 41, 380-385.	0.7	31
38	Freshwater food webs control carbon dioxide saturation through sedimentation. Global Change Biology, 2006, 12, 644-651.	4.2	31
39	Multiple stressors in estuarine waters: Effects of arsenic and salinity on <i>Ruditapes philippinarum</i> . Science of the Total Environment, 2016, 541, 1106-1114.	3.9	31
40	Short- And Long-Term Consequences of Grouping and Group Foraging in the Free-Living Flatworm <i>Dugesia tigrina</i> . Journal of Animal Ecology, 1993, 62, 529.	1.3	27
41	Feeding while Avoiding Predators: Evidence for a Size-Specific Trade-off by a Lotic Mayfly. Journal of the North American Benthological Society, 1994, 13, 368-378.	3.0	27
42	Contaminant sources, distribution and fate in the Athabasca, Peace and Slave River Basins, Canada. Hydrobiologia, 2000, 8, 39-51.	1.0	26
43	Toxicity testing with artificial streams: Effects of differences in current velocity. Environmental Toxicology and Chemistry, 1995, 14, 1209-1217.	2.2	24
44	Analysis of the food niche of <i>Glossiphonia complanata</i> (Hirudinoidea: Glossiphoniidae). Canadian Journal of Zoology, 1979, 57, 2136-2142.	0.4	23
45	The ecosystem approach to environmental assessment: moving from theory to practice. Journal of Aquatic Ecosystem Health, 1996, 5, 89-97.	0.4	23
46	Estimating the Abundance of Stone-dwelling Organisms: A New Method. Canadian Journal of Fisheries and Aquatic Sciences, 1986, 43, 2025-2035.	0.7	22
47	Effects of Ultraviolet Radiation and Contaminant-related Stressors on Arctic Freshwater Ecosystems. Ambio, 2006, 35, 388-401.	2.8	22
48	Shifts in Plankton, Nutrient and Light Relationships in Small Tundra Lakes Caused by Localized Permafrost Thaw. Arctic, 2012, 65, .	0.2	21
49	Responses of benthic invertebrate communities to shoreline retrogressive thaw slumps in Arctic upland lakes. Freshwater Science, 2014, 33, 1108-1118.	0.9	20
50	Clam <i>Ruditapes philippinarum</i> recovery from short-term exposure to the combined effect of salinity shifts and Arsenic contamination. Aquatic Toxicology, 2016, 173, 154-164.	1.9	20
51	Competition and coexistence between <i>Glossiphonia complanata</i> and <i>Helobdella stagnalis</i> (Glossiphoniidae: Hirudinoidea). Oecologia, 1981, 48, 133-137.	0.9	19
52	Behavior of the rhabdocoel flatworm <i>Mesostoma ehrenbergii</i> in prey capture and feeding. , 1998, 383, 35-40.		19
53	Historical Changes in Arctic Freshwater Ecosystems. Ambio, 2006, 35, 339-346.	2.8	19
54	Reproductive success and growth of two species of Erpobdellidae: the effect of water temperature. Canadian Journal of Zoology, 1987, 65, 1253-1256.	0.4	15

#	ARTICLE	IF	CITATIONS
55	Life history and production of the predatory caddisfly <i>Rhyacophila vao</i> Milne in a spring-fed stream. <i>Freshwater Biology</i> , 1992, 27, 1-11.	1.2	13
56	Title is missing!. <i>Hydrobiologia</i> , 2000, 8, 1-5.	1.0	12
57	Fish traits as an alternative tool for the assessment of impacted rivers. <i>Reviews in Fish Biology and Fisheries</i> , 2017, 27, 31-42.	2.4	11
58	Assessment of Activity-Specific Metabolism of Aquatic Organisms: An Improved System. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1992, 49, 1142-1148.	0.7	10
59	The effects of group size on per capita ingestion in flatworms. <i>Freshwater Biology</i> , 1995, 34, 477-483.	1.2	10
60	Northern Rivers Ecosystem Initiative: Context and Prevailing Legacy. <i>Environmental Monitoring and Assessment</i> , 2006, 113, 71-85.	1.3	9
61	Effects of permafrost degradation on water and sediment quality and heterotrophic bacterial production of <scp>Arctic tundra lakes: An experimental approach. <i>Limnology and Oceanography</i> , 2015, 60, 1484-1497.	1.6	9
62	Key Findings, Science Gaps and Policy Recommendations. <i>Ambio</i> , 2006, 35, 411-415.	2.8	8
63	Inter- and intra-specific differences in the effects of anoxia on erpobdellid leeches using static and flow-through systems. <i>Ecography</i> , 1987, 10, 149-153.	2.1	7
64	Distribution, abundance, and size of rhabdoids in <i>Dugesia polychroa</i> . (<i>Turbellaria: Tricladida</i>). <i>Hydrobiologia</i> , 1986, 132, 287-293.	1.0	6
65	Submarine groundwater discharge (SGWD): an unseen yet potentially important coastal phenomenon in Canada. <i>Natural Hazards</i> , 2012, 60, 991-1012.	1.6	5
66	Mechanisms for consumer diversity (Reply). <i>Nature</i> , 2006, 439, E2-E2.	13.7	4
67	Seasonal Variations in the Limnology of Noell Lake in the Western Canadian Arctic Tracked by In Situ Observation Systems + Supplementary Appendix 1 (See Article Tools). <i>Arctic</i> , 2018, 71, .	0.2	4
68	The effects of water temperature, ionic content and total dissolved solids on <i>Nepheleopsis obscura</i> and <i>Erpobdella punctata</i> (<i>Hirudinoidea, Erpobdellidae</i>).. <i>Ecography</i> , 1983, 6, 64-68.	2.1	3
69	The effects of water temperature, ionic content and total dissolved solids on <i>Nepheleopsis obscura</i> and <i>Erpobdella punctata</i> (<i>Hirudinoidea, Erpobdellidae</i>).. <i>Ecography</i> , 1983, 6, 59-63.	2.1	2
70	SDesti: An R package for the analysis of aquatic benthos environmental studies' data. <i>Ecological Informatics</i> , 2021, 62, 101265.	2.3	1
71	Northern rivers ecosystem initiative: contextual overview. <i>Hydrological Processes</i> , 2006, 20, 4005-4007.	1.1	0