

Craig E Williamson

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

8,449
citations

66336

42
h-index

56717

83
g-index

90
all docs

90
docs citations

90
times ranked

8152
citing authors

#	ARTICLE	IF	CITATIONS
1	Earlier ice breakup induces changepoint responses in duration and variability of spring mixing and summer stratification in dimictic lakes. <i>Limnology and Oceanography</i> , 2022, 67, .	3.1	11
2	Reintegrating Biology Through the Nexus of Energy, Information, and Matter. <i>Integrative and Comparative Biology</i> , 2022, 61, 2082-2094.	2.0	3
3	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2021. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 275-301.	2.9	40
4	Optical Properties of Water. , 2021, , .		1
5	Environmental effects of stratospheric ozone depletion, UV radiation, and interactions with climate change: UNEP Environmental Effects Assessment Panel, Update 2020. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1-67.	2.9	93
6	Smoke from regional wildfires alters lake ecology. <i>Scientific Reports</i> , 2021, 11, 10922.	3.3	15
7	Widespread deoxygenation of temperate lakes. <i>Nature</i> , 2021, 594, 66-70.	27.8	267
8	The success of the Montreal Protocol in mitigating interactive effects of stratospheric ozone depletion and climate change on the environment. <i>Global Change Biology</i> , 2021, 27, 5681-5683.	9.5	9
9	Consequences of changing water clarity on the fish and fisheries of the Laurentian Great Lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1524-1542.	1.4	18
10	Global data set of long-term summertime vertical temperature profiles in 153 lakes. <i>Scientific Data</i> , 2021, 8, 200.	5.3	7
11	Ultraviolet Radiation. , 2021, , .		1
12	Meteorological drivers of interannual variation in transparency of mountain lakes. <i>Arctic, Antarctic, and Alpine Research</i> , 2020, 52, 424-434.	1.1	2
13	Deeper waters are changing less consistently than surface waters in a global analysis of 102 lakes. <i>Scientific Reports</i> , 2020, 10, 20514.	3.3	56
14	Key rules of life and the fading cryosphere: Impacts in alpine lakes and streams. <i>Global Change Biology</i> , 2020, 26, 6644-6656.	9.5	46
15	Shedding light on environmentally transmitted parasites: lighter conditions within lakes restrict epidemic size. <i>Ecology</i> , 2020, 101, e03168.	3.2	17
16	Insects in high-elevation streams: Life in extreme environments imperiled by climate change. <i>Global Change Biology</i> , 2020, 26, 6667-6684.	9.5	57
17	Environmental effects of stratospheric ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2019. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 542-584.	2.9	59
18	The effects of dissolved organic matter from a native and an invasive plant species on juvenile <i>Daphnia</i> survival and growth. <i>Journal of Plankton Research</i> , 2020, 42, 453-456.	1.8	3

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19	Habitat-Mediated Responses of Zooplankton to Decreasing Light in Two Temperate Lakes Undergoing Long-Term Browning. <i>Frontiers in Environmental Science</i> , 2020, 8, .	3.3	15
20	Light exposure decreases infectivity of the <i>Daphnia</i> parasite <i>Pasteuria ramosa</i> . <i>Journal of Plankton Research</i> , 2020, 42, 41-44.	1.8	9
21	The relative importance of photodegradation and biodegradation of terrestrially derived dissolved organic carbon across four lakes of differing trophic status. <i>Biogeosciences</i> , 2020, 17, 6327-6340.	3.3	11
22	Dissolved organic matter protects mosquito larvae from damaging solar UV radiation. <i>PLoS ONE</i> , 2020, 15, e0240261.	2.5	10
23	Ozone depletion, ultraviolet radiation, climate change and prospects for a sustainable future. <i>Nature Sustainability</i> , 2019, 2, 569-579.	23.7	156
24	The interactive effects of stratospheric ozone depletion, UV radiation, and climate change on aquatic ecosystems. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 717-746.	2.9	108
25	Environmental effects of ozone depletion, UV radiation and interactions with climate change: UNEP Environmental Effects Assessment Panel, update 2017. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 127-179.	2.9	177
26	Browning-Related Decreases in Water Transparency Lead to Long-Term Increases in Surface Water Temperature and Thermal Stratification in Two Small Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1651-1665.	3.0	63
27	Landscape-scale regulators of water transparency in mountain lakes: implications of projected glacial loss. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 1169-1176.	1.4	10
28	Browning-related oxygen depletion in an oligotrophic lake. <i>Inland Waters</i> , 2018, 8, 255-263.	2.2	40
29	Climate change-induced increases in precipitation are reducing the potential for solar ultraviolet radiation to inactivate pathogens in surface waters. <i>Scientific Reports</i> , 2017, 7, 13033.	3.3	62
30	Nutrients associated with terrestrial dissolved organic matter drive changes in zooplankton:phytoplankton biomass ratios in an alpine lake. <i>Freshwater Biology</i> , 2017, 62, 40-51.	2.4	47
31	Transparency, Geomorphology and Mixing Regime Explain Variability in Trends in Lake Temperature and Stratification across Northeastern North America (1975-2014). <i>Water (Switzerland)</i> , 2017, 9, 442.	2.7	77
32	The potential of high-frequency profiling to assess vertical and seasonal patterns of phytoplankton dynamics in lakes: an extension of the Plankton Ecology Group (PEG) model. <i>Inland Waters</i> , 2016, 6, 565-580.	2.2	34
33	Effect of Clonal Selection on <i>Daphnia</i> Tolerance to Dark Experimental Conditions. <i>PLoS ONE</i> , 2016, 11, e0159628.	2.5	4
34	Sentinel responses to droughts, wildfires, and floods: effects of UV radiation on lakes and their ecosystem services. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 102-109.	4.0	67
35	Vertical redistribution of zooplankton in an oligotrophic lake associated with reduction in ultraviolet radiation by wildfire smoke. <i>Geophysical Research Letters</i> , 2016, 43, 3746-3753.	4.0	26
36	Ecological consequences of long-term browning in lakes. <i>Scientific Reports</i> , 2016, 5, 18666.	3.3	168

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37	Measuring the distribution, abundance, and biovolume of zooplankton in an oligotrophic freshwater lake with a 710 kHz scientific echosounder. <i>Limnology and Oceanography: Methods</i> , 2016, 14, 231-244.	2.0	11
38	Behavioral responses of freshwater calanoid copepods to the presence of ultraviolet radiation: avoidance and attraction. <i>Journal of Plankton Research</i> , 2016, 38, 16-26.	1.8	28
39	Rapid and highly variable warming of lake surface waters around the globe. <i>Geophysical Research Letters</i> , 2015, 42, 10,773.	4.0	767
40	A global database of lake surface temperatures collected by in situ and satellite methods from 1985–2009. <i>Scientific Data</i> , 2015, 2, 150008.	5.3	153
41	Shifts in microbial food web structure and productivity after additions of naturally occurring dissolved organic matter: Results from large-scale lacustrine mesocosms. <i>Limnology and Oceanography</i> , 2015, 60, 2130-2144.	3.1	22
42	Direct and indirect effects of additions of chromophoric dissolved organic matter on zooplankton during large-scale mesocosm experiments in an oligotrophic lake. <i>Freshwater Biology</i> , 2015, 60, 2362-2378.	2.4	18
43	Diel vertical migration of copepods in mountain lakes: The changing role of ultraviolet radiation across a transparency gradient. <i>Limnology and Oceanography</i> , 2015, 60, 252-262.	3.1	40
44	The role of ultraviolet radiation in the diel vertical migration of zooplankton: an experimental test of the transparency-regulator hypothesis. <i>Journal of Plankton Research</i> , 2015, 37, 886-896.	1.8	19
45	Light attenuation characteristics of glacially-fed lakes. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2014, 119, 1446-1457.	3.0	74
46	The invasion window for warmwater fish in clearwater lakes: the role of ultraviolet radiation and temperature. <i>Diversity and Distributions</i> , 2014, 20, 181-192.	4.1	8
47	Solar ultraviolet radiation in a changing climate. <i>Nature Climate Change</i> , 2014, 4, 434-441.	18.8	277
48	Lakes as sensors in the landscape: Optical metrics as scalable sentinel responses to climate change. <i>Limnology and Oceanography</i> , 2014, 59, 840-850.	3.1	81
49	Effects of UV radiation on aquatic ecosystems and interactions with other environmental factors. <i>Photochemical and Photobiological Sciences</i> , 2014, 14, 108-126.	2.9	301
50	The impacts of climate change on ecosystem structure and function. <i>Frontiers in Ecology and the Environment</i> , 2013, 11, 474-482.	4.0	433
51	Response of phytoplankton in an alpine lake to inputs of dissolved organic matter through nutrient enrichment and trophic forcing. <i>Limnology and Oceanography</i> , 2013, 58, 867-880.	3.1	64
52	The role of ultraviolet radiation and fish in regulating the vertical distribution of <i>Daphnia</i> . <i>Limnology and Oceanography</i> , 2012, 57, 1867-1876.	3.1	36
53	Development and application of a UV attainment threshold for the prevention of warmwater aquatic invasive species. <i>Biological Invasions</i> , 2012, 14, 2331-2342.	2.4	4
54	Solar radiation decreases parasitism in <i>Daphnia</i> . <i>Ecology Letters</i> , 2012, 15, 47-54.	6.4	62

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55	Lakes in a New Light: Indirect Effects of Ultraviolet Radiation. <i>Freshwater Reviews: A Journal of the Freshwater Biological Association</i> , 2011, 4, 115-134.	1.0	9
56	Implications of climate change for <i>Daphnia</i> in alpine lakes: predictions from long-term dynamics, spatial distribution, and a short-term experiment. <i>Hydrobiologia</i> , 2011, 676, 263-277.	2.0	25
57	Toward a more comprehensive theory of zooplankton diel vertical migration: Integrating ultraviolet radiation and water transparency into the biotic paradigm. <i>Limnology and Oceanography</i> , 2011, 56, 1603-1623.	3.1	170
58	Ultraviolet radiation affects invasibility of lake ecosystems by warm-water fish. <i>Ecology</i> , 2010, 91, 882-890.	3.2	26
59	Lake metabolism and the diel oxygen technique: State of the science. <i>Limnology and Oceanography: Methods</i> , 2010, 8, 628-644.	2.0	214
60	When UV Meets Fresh Water. <i>Science</i> , 2010, 329, 637-639.	12.6	59
61	Sentinels of Change. <i>Science</i> , 2009, 323, 887-888.	12.6	228
62	Ultraviolet Insights: Attempting to Resolve Enigmatic Patterns in Pelagic Freshwaters – The Historical Context and a View to the Future. <i>International Review of Hydrobiology</i> , 2009, 94, 129-142.	0.9	13
63	Effects of nutrients and dissolved organic matter on the response of phytoplankton to ultraviolet radiation: experimental comparison in spring versus summer. <i>Hydrobiologia</i> , 2009, 619, 155-166.	2.0	10
64	Modeling dissolved organic carbon in subalpine and alpine lakes with GIS and remote sensing. <i>Landscape Ecology</i> , 2009, 24, 807-816.	4.2	31
65	Differences in UV transparency and thermal structure between alpine and subalpine lakes: implications for organisms. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1244-1256.	2.9	103
66	Patterns of spatial and temporal variability of UV transparency in Lake Tahoe, California–Nevada. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
67	UV-enhanced fish predation and the differential migration of zooplankton to UV radiation and fish. <i>Limnology and Oceanography</i> , 2009, 54, 1152-1161.	3.1	35
68	Lakes and reservoirs as sentinels, integrators, and regulators of climate change. <i>Limnology and Oceanography</i> , 2009, 54, 2273-2282.	3.1	589
69	What Do Lakes and Reservoirs Tell Us About Climate Change?: Chapman Conference on Lakes as Sentinels, Integrators, and Regulators of Climate Change; Incline Village, Nevada, 8-10 September 2008. <i>Eos</i> , 2008, 89, 546-546.	0.1	3
70	Lakes and streams as sentinels of environmental change in terrestrial and atmospheric processes. <i>Frontiers in Ecology and the Environment</i> , 2008, 6, 247-254.	4.0	348
71	Using elemental ratios of calcium and strontium to track calcium availability in the freshwater zooplankton <i>Daphnia pulex</i> . <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	3
72	Artificial UV-B and Solar Radiation Reduce in Vitro Infectivity of the Human Pathogen <i>Cryptosporidium parvum</i> . <i>Environmental Science & Technology</i> , 2007, 41, 7101-7106.	10.0	43

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73	Photoprotective compounds in weakly and strongly pigmented copepods and co-occurring cladocerans. <i>Freshwater Biology</i> , 2007, 52, 2121-2133.	2.4	57
74	How do temperature, dissolved organic matter and nutrients influence the response of <i>Leptodiatomus ashlandi</i> to UV radiation in a subalpine lake?. <i>Freshwater Biology</i> , 2006, 51, 1827-1837.	2.4	24
75	Zooplankton behavioral responses to solar UV radiation vary within and among lakes. <i>Journal of Plankton Research</i> , 2005, 27, 461-471.	1.8	65
76	Molecular response to climate change: temperature dependence of UV-induced DNA damage and repair in the freshwater crustacean <i>Daphnia pulex</i> . <i>Global Change Biology</i> , 2004, 10, 408-416.	9.5	129
77	Environmental Constraints on Spawning Depth of Yellow Perch: The Roles of Low Temperature and High Solar Ultraviolet Radiation. <i>Transactions of the American Fisheries Society</i> , 2004, 133, 718-726.	1.4	55
78	Temperature-dependent ultraviolet responses in zooplankton: Implications of climate change. <i>Limnology and Oceanography</i> , 2002, 47, 1844-1848.	3.1	87
79	ULTRAVIOLET RADIATION AND ZOOPLANKTON COMMUNITY STRUCTURE FOLLOWING DEGLACIATION IN GLACIER BAY, ALASKA. <i>Ecology</i> , 2001, 82, 1748-1760.	3.2	94
80	BENEFICIAL AND DETRIMENTAL EFFECTS OF UV ON AQUATIC ORGANISMS: IMPLICATIONS OF SPECTRAL VARIATION. , 2001, 11, 1843-1857.		141
81	The implications of solar UV radiation exposure for fish and fisheries. <i>Fish and Fisheries</i> , 2001, 2, 250-260.	5.3	94
82	Dissolved organic carbon and nutrients as regulators of lake ecosystems: Resurrection of a more integrated paradigm. <i>Limnology and Oceanography</i> , 1999, 44, 795-803.	3.1	342
83	Does UV play a role in changes in predation and zooplankton community structure in acidified lakes?. <i>Limnology and Oceanography</i> , 1999, 44, 774-783.	3.1	85
84	Ultraviolet radiation in North American lakes: Attenuation estimates from DOC measurements and implications for plankton communities. <i>Limnology and Oceanography</i> , 1996, 41, 1024-1034.	3.1	280
85	The attenuation of solar UV radiation in lakes and the role of dissolved organic carbon. <i>Limnology and Oceanography</i> , 1995, 40, 1381-1391.	3.1	692
86	The impact of short-term exposure to UV-B radiation on zooplankton communities in north temperate lakes. <i>Journal of Plankton Research</i> , 1994, 16, 205-218.	1.8	168