

Nelson J O'driscoll

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,481
citations

201674

27
h-index

233421

45
g-index

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all docs

90
docs citations

90
times ranked

2303
citing authors

#	ARTICLE	IF	CITATIONS
1	Methylmercury in caddisflies and mayflies: Influences of water and sediment chemistry. <i>Chemosphere</i> , 2022, 286, 131785.	8.2	2
2	Kejimikujik calibrated catchments: A benchmark dataset for long-term impacts of terrestrial and freshwater acidification. <i>Hydrological Processes</i> , 2022, 36, .	2.6	0
3	Temporal Changes in Photoreducible Mercury, Photoreduction Rates, and the Role of Dissolved Organic Matter in Freshwater Lakes. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022, 108, 635-640.	2.7	4
4	Are There Longitudinal Effects of Forest Harvesting on Carbon Quality and Flow and Methylmercury Bioaccumulation in Primary Consumers of Temperate Stream Networks?. <i>Environmental Toxicology and Chemistry</i> , 2022, , .	4.3	2
5	Scavenging gulls are biovectors of mercury from industrial wastes in Nova Scotia, Canada. <i>Chemosphere</i> , 2022, 304, 135279.	8.2	3
6	Methylmercury biomagnification in coastal aquatic food webs from western Patagonia and western Antarctic Peninsula. <i>Chemosphere</i> , 2021, 262, 128360.	8.2	27
7	Marine pollution in fledged Leach's storm-petrels (<i>Hydrobates leucorhous</i>) from Baccalieu Island, Newfoundland and Labrador, Canada. <i>Marine Pollution Bulletin</i> , 2021, 162, 111842.	5.0	11
8	A Review of Freshwater Invertebrates as Biomonitoring of Methylmercury: the Importance of More Complete Physical and Chemical Reporting. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2021, 107, 801-808.	2.7	6
9	Total mercury, methylmercury, phosphate, and sulfate inputs to a bog ecosystem from herring gull (<i>Larus smithsonianus</i>) guano. <i>Ecotoxicology and Environmental Safety</i> , 2021, 226, 112845.	6.0	6
10	Historical patterns in mercury exposure for North American songbirds. <i>Ecotoxicology</i> , 2020, 29, 1161-1173.	2.4	11
11	Spatial distribution of mercury and other potentially toxic elements using epiphytic lichens in Nova Scotia. <i>Chemosphere</i> , 2020, 241, 125064.	8.2	18
12	Relationships between Potentially Toxic Elements in intertidal sediments and their bioaccumulation by benthic invertebrates. <i>PLoS ONE</i> , 2019, 14, e0216767.	2.5	19
13	Editorial For "Wetlands in a changing World". <i>Science of the Total Environment</i> , 2019, 693, 133562.	8.0	0
14	Tissue content of thiol-containing amino acids predicts methylmercury in aquatic invertebrates. <i>Science of the Total Environment</i> , 2019, 688, 567-573.	8.0	12
15	Dissolved Gaseous Mercury Production at a Marine Aquaculture Site in the Mercury-Contaminated Marano and Grado Lagoon, Italy. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 218-224.	2.7	5
16	Mercury bioaccumulation in aquatic biota along a salinity gradient in the Saint John River estuary. <i>Journal of Environmental Sciences</i> , 2018, 68, 41-54.	6.1	19
17	Mercury concentrations in blood, brain and muscle tissues of coastal and pelagic birds from northeastern Canada. <i>Ecotoxicology and Environmental Safety</i> , 2018, 157, 424-430.	6.0	23
18	Increasing chloride concentration causes retention of mercury in melted Arctic snow due to changes in photoreduction kinetics. <i>Journal of Environmental Sciences</i> , 2018, 68, 122-129.	6.1	10

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19	Mercury photoreduction and photooxidation in lakes: Effects of filtration and dissolved organic carbon concentration. <i>Journal of Environmental Sciences</i> , 2018, 68, 151-159.	6.1	21
20	Methylmercury in tissues of Atlantic sturgeon (<i>Acipenser oxyrinchus</i>) from the Saint John River, New Brunswick, Canada. <i>Marine Pollution Bulletin</i> , 2018, 126, 250-254.	5.0	12
21	Assessing the utility of dissolved organic matter photoreactivity as a predictor of in situ methylmercury concentration. <i>Journal of Environmental Sciences</i> , 2018, 68, 160-168.	6.1	7
22	Methylmercury photodemethylation is inhibited in lakes with high dissolved organic matter. <i>Environmental Pollution</i> , 2018, 232, 392-401.	7.5	28
23	Methylmercury Biogeochemistry in Freshwater Ecosystems: A Review Focusing on DOM and Photodemethylation. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2018, 100, 14-25.	2.7	53
24	The influence of avian biovectors on mercury speciation in a bog ecosystem. <i>Science of the Total Environment</i> , 2018, 637-638, 264-273.	8.0	12
25	JES Special issue in Mercury Biogeochemistry and Fate. <i>Journal of Environmental Sciences</i> , 2018, 68, 1-4.	6.1	6
26	Salt-marsh plants as potential sources of Hg ⁰ into the atmosphere. <i>Atmospheric Environment</i> , 2017, 152, 458-464.	4.1	20
27	Gaseous mercury flux from salt marshes is mediated by solar radiation and temperature. <i>Atmospheric Environment</i> , 2017, 153, 117-125.	4.1	20
28	Relationships between blood mercury levels, reproduction, and return rate in a small seabird. <i>Ecotoxicology</i> , 2017, 26, 97-103.	2.4	30
29	Dissolved gaseous mercury formation and mercury volatilization in intertidal sediments. <i>Science of the Total Environment</i> , 2017, 603-604, 279-289.	8.0	18
30	Response of oxidative stress transcripts in the brain of wild yellow perch (<i>Perca flavescens</i>) exposed to an environmental gradient of methylmercury. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2017, 192, 50-58.	2.6	10
31	Oxidative stress profiles in brain point out a higher susceptibility of fish to waterborne divalent mercury compared to dietary organic mercury. <i>Marine Pollution Bulletin</i> , 2017, 122, 110-121.	5.0	20
32	Quantifying the effects of photoreactive dissolved organic matter on methylmercury photodemethylation rates in freshwaters. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 1493-1502.	4.3	13
33	Using sulfur stable isotopes to assess mercury bioaccumulation and biomagnification in temperate lake food webs. <i>Environmental Toxicology and Chemistry</i> , 2017, 36, 661-670.	4.3	13
34	A Comparison of Mercury Biomagnification through Lacustrine Food Webs Supporting Brook Trout (<i>Salvelinus fontinalis</i>) and Other Salmonid Fishes. <i>Frontiers in Environmental Science</i> , 2016, 4, .	3.3	14
35	Seasonal variation of methylmercury in sediment cores from the Tagus Estuary (Portugal). <i>Marine Pollution Bulletin</i> , 2016, 104, 162-170.	5.0	21
36	Unveiling the neurotoxicity of methylmercury in fish (<i>Diplodus sargus</i>) through a regional morphometric analysis of brain and swimming behavior assessment. <i>Aquatic Toxicology</i> , 2016, 180, 320-333.	4.0	21

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37	Effects of coastal managed retreat on mercury biogeochemistry. <i>Environmental Pollution</i> , 2016, 209, 99-106.	7.5	2
38	Aerobic Mercury-resistant bacteria alter Mercury speciation and retention in the Tagus Estuary (Portugal). <i>Ecotoxicology and Environmental Safety</i> , 2016, 124, 60-67.	6.0	31
39	Effects of in-channel beaver impoundments on mercury bioaccumulation in Rocky Mountain stream food webs. <i>Ecosphere</i> , 2015, 6, 1-17.	2.2	16
40	Mercury in Arctic snow: Quantifying the kinetics of photochemical oxidation and reduction. <i>Science of the Total Environment</i> , 2015, 509-510, 115-132.	8.0	17
41	Mercury concentrations in feathers of marine birds in Arctic Canada. <i>Marine Pollution Bulletin</i> , 2015, 98, 308-313.	5.0	30
42	Photoreducible Mercury Loss from Arctic Snow Is Influenced by Temperature and Snow Age. <i>Environmental Science & Technology</i> , 2015, 49, 12120-12126.	10.0	15
43	Factors affecting biotic mercury concentrations and biomagnification through lake food webs in the Canadian high Arctic. <i>Science of the Total Environment</i> , 2015, 509-510, 195-205.	8.0	49
44	Mercury bioaccumulation and biomagnification in a small Arctic polynya ecosystem. <i>Science of the Total Environment</i> , 2015, 509-510, 206-215.	8.0	45
45	Mercury in the marine environment of the Canadian Arctic: Review of recent findings. <i>Science of the Total Environment</i> , 2015, 509-510, 67-90.	8.0	106
46	Mercury photochemistry in snow and implications for Arctic ecosystems. <i>Environmental Reviews</i> , 2014, 22, 331-345.	4.5	21
47	Mercury in bats from the northeastern United States. <i>Ecotoxicology</i> , 2014, 23, 45-55.	2.4	56
48	Quantifying the effects of soil temperature, moisture and sterilization on elemental mercury formation in boreal soils. <i>Environmental Pollution</i> , 2014, 193, 138-146.	7.5	51
49	Response to Comment on "Mercury Biomagnification through Food Webs Is Affected by Physical and Chemical Characteristics of Lakes". <i>Environmental Science & Technology</i> , 2014, 48, 10526-10527.	10.0	3
50	Mercury bioaccumulation in dragonflies (Odonata: Anisoptera): Examination of life stages and body regions. <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 2047-2054.	4.3	29
51	Mercury Biomagnification through Food Webs Is Affected by Physical and Chemical Characteristics of Lakes. <i>Environmental Science & Technology</i> , 2013, 47, 12047-12053.	10.0	134
52	Mercury and methylmercury bioaccumulation by polychaete worms is governed by both feeding ecology and mercury bioavailability in coastal mudflats. <i>Environmental Pollution</i> , 2013, 176, 18-25.	7.5	34
53	The polychaete worm <i>Nereis diversicolor</i> increases mercury lability and methylation in intertidal mudflats. <i>Environmental Toxicology and Chemistry</i> , 2013, 32, 1888-1895.	4.3	20
54	Factors regulating the bioavailability of methylmercury to breeding rusty blackbirds in northeastern wetlands. <i>Environmental Pollution</i> , 2012, 171, 148-154.	7.5	60

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55	Modeling the photo-oxidation of dissolved organic matter by ultraviolet radiation in freshwater lakes: Implications for mercury bioavailability. <i>Chemosphere</i> , 2012, 88, 1220-1226.	8.2	21
56	Mercury Speciation and Distribution in Coastal Wetlands and Tidal Mudflats: Relationships with Sulphur Speciation and Organic Carbon. <i>Water, Air, and Soil Pollution</i> , 2011, 220, 313-326.	2.4	27
57	GIS Modelling of Intertidal Wetland Exposure Characteristics. <i>Journal of Coastal Research</i> , 2011, 275, 44-51.	0.3	10
58	Suspension of Multi-Walled Carbon Nanotubes (CNTs) in Freshwaters: Examining the Effect of CNT Size. <i>Water, Air, and Soil Pollution</i> , 2010, 208, 235-241.	2.4	14
59	Geographic and Seasonal Variation in Mercury Exposure of the Declining Rusty Blackbird. <i>Condor</i> , 2010, 112, 789-799.	1.6	86
60	Determining the magnitude of true analytical error in geochemical analysis. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2010, 10, 355-364.	0.9	4
61	Photoreactions of Mercury in Surface Ocean Water: Gross Reaction Kinetics and Possible Pathways. <i>Environmental Science & Technology</i> , 2010, 44, 644-649.	10.0	106
62	Size distribution of methylmercury associated with particulate and dissolved organic matter in freshwaters. <i>Science of the Total Environment</i> , 2009, 408, 408-414.	8.0	38
63	Sediment processes and mercury transport in a frozen freshwater fluvial lake (Lake St. Louis, QC.) <i>Tj ETQq1 1 0.784314 rgBT 4/Overl</i>	7.5	14
64	Dissolved Gaseous Mercury Concentrations and Mercury Volatilization in a Frozen Freshwater Fluvial Lake. <i>Environmental Science & Technology</i> , 2008, 42, 5125-5130.	10.0	18
65	The development and application of a mass balance model for mercury (total, elemental and methyl) using data from a remote lake (Big Dam West, Nova Scotia, Canada) and the multi-species multiplier method. <i>Applied Geochemistry</i> , 2008, 23, 467-481.	3.0	23
66	Continuous Analysis of Dissolved Gaseous Mercury and Mercury Volatilization in the Upper St. Lawrence River: Exploring Temporal Relationships and UV Attenuation. <i>Environmental Science & Technology</i> , 2007, 41, 5342-5348.	10.0	36
67	The ebullition of hydrogen, carbon monoxide, methane, carbon dioxide and total gaseous mercury from the Cornwall Area of Concern. <i>Science of the Total Environment</i> , 2007, 381, 256-262.	8.0	28
68	Gross Photoreduction Kinetics of Mercury in Temperate Freshwater Lakes and Rivers: Application to a General Model of DGM Dynamics. <i>Environmental Science & Technology</i> , 2006, 40, 837-843.	10.0	91
69	The influence of forestry activity on the structure of dissolved organic matter in lakes: Implications for mercury photoreactions. <i>Science of the Total Environment</i> , 2006, 366, 880-893.	8.0	55
70	The Biogeochemistry and Fate of Mercury in the Environment. <i>Metal Ions in Biological Systems</i> , 2005, 43, 221-238.	0.4	9
71	Abiotic Production of Methylmercury by Solar Radiation. <i>Environmental Science & Technology</i> , 2005, 39, 1071-1077.	10.0	82
72	Effect of Dissolved Organic Carbon on the Photoproduction of Dissolved Gaseous Mercury in Lakes: Potential Impacts of Forestry. <i>Environmental Science & Technology</i> , 2004, 38, 2664-2672.	10.0	85

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73	Title is missing!. Water, Air, and Soil Pollution, 2003, 143, 271-288.	2.4	37
74	Continuous analysis of dissolved gaseous mercury in freshwater lakes. Science of the Total Environment, 2003, 304, 285-294.	8.0	41
75	Continuous Analysis of Dissolved Gaseous Mercury (DGM) and Mercury Flux in Two Freshwater Lakes in Kejimikujik Park, Nova Scotia: A Evaluating Mercury Flux Models with Quantitative Data. Environmental Science & Technology, 2003, 37, 2226-2235.	10.0	77
76	Are Methylmercury Concentrations in the Wetlands of Kejimikujik National Park, Nova Scotia, Canada, Dependent on Geology?. Journal of Environmental Quality, 2003, 32, 2085-2094.	2.0	21
77	Dissolved Gaseous Mercury Profiles in Freshwaters. ACS Symposium Series, 2002, , 232-245.	0.5	2
78	Microbial Reduction and Oxidation of Mercury in Freshwater Lakes. Environmental Science & Technology, 2002, 36, 3064-3068.	10.0	158
79	Analysis of Methyl Mercury Binding to Freshwater Humic and Fulvic Acids by Gel Permeation Chromatography/Hydride Generation ICP-MS. Environmental Science & Technology, 2000, 34, 4039-4043.	10.0	47