# Nelson J O'driscoll

List of Publications by Year
in descending order



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|---|---|---|---|
| 79 papers | 2,481 citations | 201385 27 h-index | 233125 45 g-index |
| 90 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. Chemosphere, 2022, 286, 131785. | 4.2 | 2 |
| 2 | Kejimkujik calibrated catchments: A benchmark dataset for longâ€term impacts of terrestrial and freshwater acidification. Hydrological Processes, 2022, 36, . | 1.1 | 0 |
| 3 | Temporal Changes in Photoreducible Mercury, Photoreduction Rates, and the Role of Dissolved Organic Matter in Freshwater Lakes. Bulletin of Environmental Contamination and Toxicology, 2022, 108, 635-640. | 1.3 | 4 |
| 4 | Are There Longitudinal Effects of Forest Harvesting on Carbon Quality and Flow and Methylmercury Bioaccumulation in Primary Consumers of Temperate Stream Networks?. Environmental Toxicology and Chemistry, 2022, , . | 2.2 | 2 |
| 5 | Scavenging gulls are biovectors of mercury from industrial wastes in Nova Scotia, Canada. Chemosphere, 2022, 304, 135279. | 4.2 | 3 |
| 6 | Methylmercury biomagnification in coastal aquatic food webs from western Patagonia and western Antarctic Peninsula. Chemosphere, 2021, 262, 128360. | 4.2 | 27 |
| 7 | Marine pollution in fledged Leach's storm-petrels (Hydrobates leucorhous) from Baccalieu Island, Newfoundland and Labrador, Canada. Marine Pollution Bulletin, 2021, 162, 111842. | 2.3 | 11 |
| 8 | A Review of Freshwater Invertebrates as Biomonitors of Methylmercury: the Importance of More Complete Physical and Chemical Reporting. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 801-808. | 1.3 | 6 |
| 9 | Total mercury, methylmercury, phosphate, and sulfate inputs to a bog ecosystem from herring gull (Larus smithsoniansus) guano. Ecotoxicology and Environmental Safety, 2021, 226, 112845. | 2.9 | 6 |
| 10 | Historical patterns in mercury exposure for North American songbirds. Ecotoxicology, 2020, 29, 1161-1173. | 1.1 | 11 |
| 11 | Spatial distribution of mercury and other potentially toxic elements using epiphytic lichens in Nova Scotia. Chemosphere, 2020, 241, 125064. | 4.2 | 18 |
| 12 | Relationships between Potentially Toxic Elements in intertidal sediments and their bioaccumulation by benthic invertebrates. PLoS ONE, 2019, 14, e0216767. | 1.1 | 19 |
| 13 | Editorial For â€œWetlands in a changing Worldâ€• Science of the Total Environment, 2019, 693, 133562. | 3.9 | 0 |
| 14 | Tissue content of thiol-containing amino acids predicts methylmercury in aquatic invertebrates. Science of the Total Environment, 2019, 688, 567-573. | 3.9 | 12 |
| 15 | Dissolved Gaseous Mercury Production at a Marine Aquaculture Site in the Mercury-Contaminated Marano and Grado Lagoon, Italy. Bulletin of Environmental Contamination and Toxicology, 2019, 103, 218-224. | 1.3 | 5 |
| 16 | Mercury bioaccumulation in aquatic biota along a salinity gradient in the Saint John River estuary. Journal of Environmental Sciences, 2018, 68, 41-54. | 3.2 | 19 |
| 17 | Mercury concentrations in blood, brain and muscle tissues of coastal and pelagic birds from northeastern Canada. Ecotoxicology and Environmental Safety, 2018, 157, 424-430. | 2.9 | 23 |
| 18 | Increasing chloride concentration causes retention of mercury in melted Arctic snow due to changes in photoreduction kinetics. Journal of Environmental Sciences, 2018, 68, 122-129. | 3.2 | 10 |

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|---|---|---|---|
| 19 | Mercury photoreduction and photooxidation in lakes: Effects of filtration and dissolved organic carbon concentration. Journal of Environmental Sciences, 2018, 68, 151-159. | 3.2 | 21 |
| 20 | Methylmercury in tissues of Atlantic sturgeon (Acipenser oxyrhynchus) from the Saint John River, New Brunswick, Canada. Marine Pollution Bulletin, 2018, 126, 250-254. | 2.3 | 12 |
| 21 | Assessing the utility of dissolved organic matter photoreactivity as a predictor of in situ methylmercury concentration. Journal of Environmental Sciences, 2018, 68, 160-168. | 3.2 | 7 |
| 22 | Methylmercury photodemethylation is inhibited in lakes with high dissolved organic matter. Environmental Pollution, 2018, 232, 392-401. | 3.7 | 28 |
| 23 | Methylmercury Biogeochemistry in Freshwater Ecosystems: A Review Focusing on DOM and Photodemethylation. Bulletin of Environmental Contamination and Toxicology, 2018, 100, 14-25. | 1.3 | 53 |
| 24 | The influence of avian biovectors on mercury speciation in a bog ecosystem. Science of the Total Environment, 2018, 637-638, 264-273. | 3.9 | 12 |
| 25 | JES Special issue in Mercury Biogeochemistry and Fate. Journal of Environmental Sciences, 2018, 68, 1-4. | 3.2 | 6 |
| 26 | Salt-marsh plants as potential sources of Hg0 into the atmosphere. Atmospheric Environment, 2017, 152, 458-464. | 1.9 | 20 |
| 27 | Gaseous mercury flux from salt marshes is mediated by solar radiation and temperature. Atmospheric Environment, 2017, 153, 117-125. | 1.9 | 20 |
| 28 | Relationships between blood mercury levels, reproduction, and return rate in a small seabird. Ecotoxicology, 2017, 26, 97-103. | 1.1 | 30 |
| 29 | Dissolved gaseous mercury formation and mercury volatilization in intertidal sediments. Science of the Total Environment, 2017, 603-604, 279-289. | 3.9 | 18 |
| 30 | Response of oxidative stress transcripts in the brain of wild yellow perch (Perca flavescens) exposed to an environmental gradient of methylmercury. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2017, 192, 50-58. | 1.3 | 10 |
| 31 | Oxidative stress profiles in brain point out a higher susceptibility of fish to waterborne divalent mercury compared to dietary organic mercury. Marine Pollution Bulletin, 2017, 122, 110-121. | 2.3 | 20 |
| 32 | Quantifying the effects of photoreactive dissolved organic matter on methylmercury photodemethylation rates in freshwaters. Environmental Toxicology and Chemistry, 2017, 36, 1493-1502. | 2.2 | 13 |
| 33 | Using sulfur stable isotopes to assess mercury bioaccumulation and biomagnification in temperate lake food webs. Environmental Toxicology and Chemistry, 2017, 36, 661-670. | 2.2 | 13 |
| 34 | A Comparison of Mercury Biomagnification through Lacustrine Food Webs Supporting Brook Trout (Salvelinus fontinalis) and Other Salmonid Fishes. Frontiers in Environmental Science, 2016, 4, . | 1.5 | 14 |
| 35 | Seasonal variation of methylmercury in sediment cores from the Tagus Estuary (Portugal). Marine Pollution Bulletin, 2016, 104, 162-170. | 2.3 | 21 |
| 36 | Unveiling the neurotoxicity of methylmercury in fish ( Diplodus sargus ) through a regional morphometric analysis of brain and swimming behavior assessment. Aquatic Toxicology, 2016, 180, 320-333. | 1.9 | 21 |

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|---|---|---|---|
| 37 | Effects of coastal managed retreat on mercury biogeochemistry. Environmental Pollution, 2016, 209, 99-106. | 3.7 | 2 |
| 38 | Aerobic Mercury-resistant bacteria alter Mercury speciation and retention in the Tagus Estuary (Portugal). Ecotoxicology and Environmental Safety, 2016, 124, 60-67. | 2.9 | 31 |
| 39 | Effects of inâ€channel beaver impoundments on mercury bioaccumulation in Rocky Mountain stream food webs. Ecosphere, 2015, 6, 1-17. | 1.0 | 16 |
| 40 | Mercury in Arctic snow: Quantifying the kinetics of photochemical oxidation and reduction. Science of the Total Environment, 2015, 509-510, 115-132. | 3.9 | 17 |
| 41 | Mercury concentrations in feathers of marine birds in Arctic Canada. Marine Pollution Bulletin, 2015, 98, 308-313. | 2.3 | 30 |
| 42 | Photoreducible Mercury Loss from Arctic Snow Is Influenced by Temperature and Snow Age. Environmental Science & Technology, 2015, 49, 12120-12126. | 4.6 | 15 |
| 43 | Factors affecting biotic mercury concentrations and biomagnification through lake food webs in the Canadian high Arctic. Science of the Total Environment, 2015, 509-510, 195-205. | 3.9 | 49 |
| 44 | Mercury bioaccumulation and biomagnification in a small Arctic polynya ecosystem. Science of the Total Environment, 2015, 509-510, 206-215. | 3.9 | 45 |
| 45 | Mercury in the marine environment of the Canadian Arctic: Review of recent findings. Science of the Total Environment, 2015, 509-510, 67-90. | 3.9 | 106 |
| 46 | Mercury photochemistry in snow and implications for Arctic ecosystems. Environmental Reviews, 2014, 22, 331-345. | 2.1 | 21 |
| 47 | Mercury in bats from the northeastern United States. Ecotoxicology, 2014, 23, 45-55. | 1.1 | 56 |
| 48 | Quantifying the effects of soil temperature, moisture and sterilization on elemental mercury formation in boreal soils. Environmental Pollution, 2014, 193, 138-146. | 3.7 | 51 |
| 49 | Response to Comment on â€œMercury Biomagnification through Food Webs Is Affected by Physical and Chemical Characteristics of Lakesâ€. Environmental Science & Technology, 2014, 48, 10526-10527. | 4.6 | 3 |
| 50 | Mercury bioaccumulation in dragonflies (Odonata: Anisoptera): Examination of life stages and body regions. Environmental Toxicology and Chemistry, 2014, 33, 2047-2054. | 2.2 | 29 |
| 51 | Mercury Biomagnification through Food Webs Is Affected by Physical and Chemical Characteristics of Lakes. Environmental Science & Technology, 2013, 47, 12047-12053. | 4.6 | 134 |
| 52 | Mercury and methylmercury bioaccumulation by polychaete worms is governed by both feeding ecology and mercury bioavailability in coastal mudflats. Environmental Pollution, 2013, 176, 18-25. | 3.7 | 34 |
| 53 | The polychaete worm Nereis diversicolor increases mercury lability and methylation in intertidal mudflats. Environmental Toxicology and Chemistry, 2013, 32, 1888-1895. | 2.2 | 20 |
| 54 | Factors regulating the bioavailability of methylmercury to breeding rusty blackbirds in northeastern wetlands. Environmental Pollution, 2012, 171, 148-154. | 3.7 | 60 |

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|---|---|---|---|
| 55 | Modeling the photo-oxidation of dissolved organic matter by ultraviolet radiation in freshwater lakes: Implications for mercury bioavailability. Chemosphere, 2012, 88, 1220-1226. | 4.2 | 21 |
| 56 | Mercury Speciation and Distribution in Coastal Wetlands and Tidal Mudflats: Relationships with Sulphur Speciation and Organic Carbon. Water, Air, and Soil Pollution, 2011, 220, 313-326. | 1.1 | 27 |
| 57 | GIS Modelling of Intertidal Wetland Exposure Characteristics. Journal of Coastal Research, 2011, 275, 44-51. | 0.1 | 10 |
| 58 | Suspension of Multi-Walled Carbon Nanotubes (CNTs) in Freshwaters: Examining the Effect of CNT Size. Water, Air, and Soil Pollution, 2010, 208, 235-241. | 1.1 | 14 |
| 59 | Geographic and Seasonal Variation in Mercury Exposure of the Declining Rusty Blackbird. Condor, 2010, 112, 789-799. | 0.7 | 86 |
| 60 | Determining the magnitude of true analytical error in geochemical analysis. Geochemistry: Exploration, Environment, Analysis, 2010, 10, 355-364. | 0.5 | 4 |
| 61 | Photoreactions of Mercury in Surface Ocean Water: Gross Reaction Kinetics and Possible Pathways. Environmental Science & Technology, 2010, 44, 644-649. | 4.6 | 106 |
| 62 | Size distribution of methylmercury associated with particulate and dissolved organic matter in freshwaters. Science of the Total Environment, 2009, 408, 408-414. | 3.9 | 38 |
| 63 | Sediment processes and mercury transport in a frozen freshwater fluvial lake (Lake St. Louis, QC,) Tj ETQq1 1 0.784314 rgBT /Overloc | 3.7 | 4 |
| 64 | Dissolved Gaseous Mercury Concentrations and Mercury Volatilization in a Frozen Freshwater Fluvial Lake. Environmental Science & Technology, 2008, 42, 5125-5130. | 4.6 | 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. Applied Geochemistry, 2008, 23, 467-481. | 1.4 | 23 |
| 66 | Continuous Analysis of Dissolved Gaseous Mercury and Mercury Volatilization in the Upper St. Lawrence River:Â Exploring Temporal Relationships and UV Attenuation. Environmental Science & Technology, 2007, 41, 5342-5348. | 4.6 | 36 |
| 67 | The ebullition of hydrogen, carbon monoxide, methane, carbon dioxide and total gaseous mercury from the Cornwall Area of Concern. Science of the Total Environment, 2007, 381, 256-262. | 3.9 | 28 |
| 68 | Gross Photoreduction Kinetics of Mercury in Temperate Freshwater Lakes and Rivers:Â Application to a General Model of DGM Dynamics. Environmental Science & Technology, 2006, 40, 837-843. | 4.6 | 91 |
| 69 | The influence of forestry activity on the structure of dissolved organic matter in lakes: Implications for mercury photoreactions. Science of the Total Environment, 2006, 366, 880-893. | 3.9 | 55 |
| 70 | The Biogeochemistry and Fate of Mercury in the Environment. Metal Ions in Biological Systems, 2005, 43, 221-238. | 0.4 | 9 |
| 71 | Abiotic Production of Methylmercury by Solar Radiation. Environmental Science & Technology, 2005, 39, 1071-1077. | 4.6 | 82 |
| 72 | Effect of Dissolved Organic Carbon on the Photoproduction of Dissolved Gaseous Mercury in Lakes:Â Potential Impacts of Forestry. Environmental Science & Technology, 2004, 38, 2664-2672. | 4.6 | 85 |

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|---|---|---|---|
| 73 | Title is missing!. Water, Air, and Soil Pollution, 2003, 143, 271-288. | 1.1 | 37 |
| 74 | Continuous analysis of dissolved gaseous mercury in freshwater lakes. Science of the Total Environment, 2003, 304, 285-294. | 3.9 | 41 |
| 75 | Continuous Analysis of Dissolved Gaseous Mercury (DGM) and Mercury Flux in Two Freshwater Lakes in Kejimkujik Park, Nova Scotia:Â Evaluating Mercury Flux Models with Quantitative Data. Environmental Science & Technology, 2003, 37, 2226-2235. | 4.6 | 77 |
| 76 | Are Methylmercury Concentrations in the Wetlands of Kejimkujik National Park, Nova Scotia, Canada, Dependent on Geology?. Journal of Environmental Quality, 2003, 32, 2085-2094. | 1.0 | 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. | 4.6 | 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. | 4.6 | 47 |