

Donald A Jackson

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

11,220
citations

50170

46
h-index

30010

103
g-index

112
all docs

112
docs citations

112
times ranked

12706
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Microplastic contamination in Great Lakes fish. <i>Conservation Biology</i> , 2022, 36, . | 2.4 | 32 |
| 2 | Bioregions are predominantly climatic for fishes of northern lakes. <i>Global Ecology and Biogeography</i> , 2022, 31, 233-246. | 2.7 | 5 |
| 3 | Putting the Mantel test back together again. <i>Ecology</i> , 2022, 103, . | 1.5 | 7 |
| 4 | Weighted stream temperature tolerance index is insensitive to changes in stream fish composition. <i>Freshwater Science</i> , 2022, 41, 386-397. | 0.9 | 2 |
| 5 | Size spectrum model reveals importance of considering species interactions in a freshwater fisheries management context. <i>Ecosphere</i> , 2022, 13, . | 1.0 | 2 |
| 6 | Salty summertime streamsâ€™ road salt contaminated watersheds and estimates of the proportion of impacted species. <i>Facets</i> , 2021, 6, 317-333. | 1.1 | 23 |
| 7 | Partitioning fish communities into guilds for ecological analyses: an overview of current approaches and future directions. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 984-993. | 0.7 | 14 |
| 8 | Exploratory analysis of multivariate data: Applications of parallel coordinates in ecology. <i>Ecological Informatics</i> , 2021, 64, 101361. | 2.3 | 7 |
| 9 | Approaches and research needs for advancing the protection and recovery of imperilled freshwater fishes and mussels in Canada¹. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1356-1370. | 0.7 | 9 |
| 10 | Abiotic factors influence species co-occurrence patterns of lake fishes. <i>Journal of Animal Ecology</i> , 2021, 90, 2859-2874. | 1.3 | 3 |
| 11 | Fifteen years of Canadaâ€™s Species at Risk Act: Evaluating research progress for aquatic species in the Great Lakesâ€™ St. Lawrence River basin1. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1205-1218. | 0.7 | 5 |
| 12 | Shifting Trophic Control of Fisheryâ€™Ecosystem Dynamics Following Biological Invasions. <i>Bulletin of the Ecological Society of America</i> , 2020, 101, e01764. | 0.2 | 1 |
| 13 | Climate warming moderates the impacts of introduced sportfish on multiple dimensions of prey biodiversity. <i>Global Change Biology</i> , 2020, 26, 4937-4951. | 4.2 | 15 |
| 14 | Shifting trophic control of fisheryâ€™ecosystem dynamics following biological invasions. <i>Ecological Applications</i> , 2020, 30, e02190. | 1.8 | 13 |
| 15 | Speciesâ€™pair associations, null models, and tests of mechanisms structuring ecological communities. <i>Ecosphere</i> , 2019, 10, e02797. | 1.0 | 19 |
| 16 | Fishing down then up the food web of an invaded lake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19995-20001. | 3.3 | 8 |
| 17 | Linking the ballâ€™andâ€™cup analogy and ordination trajectories to describe ecosystem stability, resistance, and resilience. <i>Ecosphere</i> , 2019, 10, e02629. | 1.0 | 38 |
| 18 | Assessing the impacts of imperfect detection on estimates of diversity and community structure through multispecies occupancy modeling. <i>Ecology and Evolution</i> , 2018, 8, 4676-4684. | 0.8 | 17 |

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|----|--|-----|-----------|
| 19 | Long-term directional trajectories among lake crustacean zooplankton communities and water chemistry. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 1926-1939. | 0.7 | 7 |
| 20 | Impacts of temperature and selected chemical digestion methods on microplastic particles. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 91-98. | 2.2 | 235 |
| 21 | Functional diversity and redundancy of freshwater fish communities across biogeographic and environmental gradients. <i>Diversity and Distributions</i> , 2018, 24, 1612-1626. | 1.9 | 23 |
| 22 | Habitat alteration and habitat fragmentation differentially affect beta diversity of stream fish communities. <i>Landscape Ecology</i> , 2017, 32, 647-662. | 1.9 | 53 |
| 23 | Determining a More Environmental than Spatial Influence on Structuring Fish Communities and Ecological Boundaries of Fangcheng Coastal Waters, Northern South China Sea. <i>Journal of Coastal Research</i> , 2017, 80, 55-68. | 0.1 | 4 |
| 24 | Long-term spatiotemporal trends and health risk assessment of oyster arsenic levels in coastal waters of northern South China Sea. <i>Environmental Science and Pollution Research</i> , 2017, 24, 20673-20684. | 2.7 | 4 |
| 25 | Utilizing gradient simulations for quantifying community-level resistance and resilience. <i>Ecosphere</i> , 2017, 8, e01953. | 1.0 | 7 |
| 26 | The response of amphibian larvae to environmental change is both consistent and variable. <i>Oikos</i> , 2016, 125, 1700-1711. | 1.2 | 20 |
| 27 | Effects of declining calcium availability on the survival, growth and calcium content of a freshwater crayfish, <i>Orconectes virilis</i> . <i>Freshwater Biology</i> , 2016, 61, 914-922. | 1.2 | 4 |
| 28 | Effect of lake size, isolation and top predator presence on nested fish community structure. <i>Journal of Biogeography</i> , 2016, 43, 1425-1435. | 1.4 | 8 |
| 29 | Catch-per-unit-effort and size spectra of lake fish assemblages reflect underlying patterns in ecological conditions and anthropogenic activities across regional and local scales. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 535-546. | 0.7 | 22 |
| 30 | Evaluating the effect of lake calcium concentration on the acquisition of carapace calcium by freshwater crayfish. <i>Hydrobiologia</i> , 2015, 744, 91-100. | 1.0 | 13 |
| 31 | The vulnerability of species to range expansions by predators can be predicted using historical species associations and body size. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151211. | 1.2 | 21 |
| 32 | Potential spread of Great Lakes fishes given climate change and proposed dams: an approach using circuit theory to evaluate invasion risk. <i>Landscape Ecology</i> , 2015, 30, 919-935. | 1.9 | 18 |
| 33 | Window collisions by migratory bird species: urban geographical patterns and habitat associations. <i>Urban Ecosystems</i> , 2015, 18, 1427-1446. | 1.1 | 63 |
| 34 | The abiotic and biotic factors limiting establishment of predatory fishes at their expanding northern range boundaries in Ontario, Canada. <i>Global Change Biology</i> , 2015, 21, 2227-2237. | 4.2 | 41 |
| 35 | Ontario freshwater fishes demonstrate differing range-boundary shifts in a warming climate. <i>Diversity and Distributions</i> , 2014, 20, 123-136. | 1.9 | 104 |
| 36 | Shaping up model transferability and generality of species distribution modeling for predicting invasions: implications from a study on <i>Bythotrephes longimanus</i> . <i>Biological Invasions</i> , 2014, 16, 2079-2103. | 1.2 | 15 |

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|----|---|-----|-----------|
| 37 | Describing Flowering Schedule Shape through Multivariate Ordination. <i>International Journal of Plant Sciences</i> , 2014, 175, 70-79. | 0.6 | 7 |
| 38 | Linking temporal changes in crayfish communities to environmental changes in boreal Shield lakes in south-central Ontario. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2014, 71, 21-30. | 0.7 | 15 |
| 39 | Meta-analysis suggests biotic resistance in freshwater environments is driven by consumption rather than competition. <i>Ecology</i> , 2014, 95, 3259-3270. | 1.5 | 82 |
| 40 | Synthesizing reference conditions for highly degraded areas through best professional judgment. <i>Journal of Great Lakes Research</i> , 2014, 40, 37-42. | 0.8 | 3 |
| 41 | Projecting impacts of climate change on surface water temperatures of a large subalpine lake: Lake Tahoe, USA. <i>Climatic Change</i> , 2013, 118, 841-855. | 1.7 | 9 |
| 42 | Regional-scale patterns in community concordance: testing the roles of historical biogeography versus contemporary abiotic controls in determining stream community composition. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 1141-1150. | 0.7 | 10 |
| 43 | Interactive effects of calcium decline and predation risk on the potential for a continuing northward range expansion of the rusty crayfish (<i>Orconectes rusticus</i>). <i>Canadian Journal of Zoology</i> , 2013, 91, 328-337. | 0.4 | 13 |
| 44 | Long-term changes in fish mercury levels in the historically impacted English-Wabigoon River system (Canada). <i>Journal of Environmental Monitoring</i> , 2012, 14, 2327. | 2.1 | 20 |
| 45 | Geology as a Structuring Mechanism of Stream Fish Communities. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 962-974. | 0.6 | 15 |
| 46 | Addressing the removal of rare species in multivariate bioassessments: The impact of methodological choices. <i>Ecological Indicators</i> , 2012, 18, 82-90. | 2.6 | 119 |
| 47 | Estimating local and regional population sizes for an endangered minnow, redbreast dace (<i>Clinostomus</i>) Tj ETQq1 1 0,784314 rgBT /Overl 0,9 18 | 0.9 | 18 |
| 48 | Impact of species-specific dispersal and regional stochasticity on estimates of population viability in stream metapopulations. <i>Landscape Ecology</i> , 2012, 27, 405-416. | 1.9 | 17 |
| 49 | Effects of broad-scale geological changes on patterns in macroinvertebrate assemblages. <i>Journal of the North American Benthological Society</i> , 2011, 30, 459-473. | 3.0 | 17 |
| 50 | Random-effects ordination: describing and predicting multivariate correlations and co-occurrences. <i>Ecological Monographs</i> , 2011, 81, 635-663. | 2.4 | 29 |
| 51 | Trends of legacy and emerging-issue contaminants in Lake Simcoe fishes. <i>Journal of Great Lakes Research</i> , 2011, 37, 148-159. | 0.8 | 16 |
| 52 | Modeling the establishment of invasive species: habitat and biotic interactions influencing the establishment of <i>Bythotrephes longimanus</i> . <i>Biological Invasions</i> , 2011, 13, 2499-2512. | 1.2 | 16 |
| 53 | A multi-scale comparison of trait linkages to environmental and spatial variables in fish communities across a large freshwater lake. <i>Oecologia</i> , 2011, 166, 819-831. | 0.9 | 28 |
| 54 | Thirty-Year Time Series of PCB Concentrations in a Small Invertivorous Fish (<i>Notropis Hudsonius</i>): An Examination of Post-1990 Trajectory Shifts in the Lower Great Lakes. <i>Ecosystems</i> , 2011, 14, 415-429. | 1.6 | 21 |

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|----|---|-----|-----------|
| 55 | Temporal and spatial trends of organochlorines and mercury in fishes from the St. Clair River/Lake St. Clair corridor, Canada. <i>Journal of Great Lakes Research</i> , 2010, 36, 100-112. | 0.8 | 44 |
| 56 | Communication and cohesion in aquatic science literature. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 701-712. | 0.7 | 1 |
| 57 | Functional diversity indices can be driven by methodological choices and species richness. <i>Ecology</i> , 2009, 90, 341-347. | 1.5 | 102 |
| 58 | Quantifying the potential effects of climate change and the invasion of smallmouth bass on native lake trout populations across Canadian lakes. <i>Ecography</i> , 2009, 32, 517-525. | 2.1 | 41 |
| 59 | Multispecies crayfish declines in lakes: implications for species distributions and richness. <i>Journal of the North American Benthological Society</i> , 2009, 28, 719-732. | 3.0 | 48 |
| 60 | UNCERTAINTY ANALYSIS OF DIOXIN-LIKE POLYCHLORINATED BIPHENYLS-RELATED TOXIC EQUIVALENTS IN FISH. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 997. | 2.2 | 9 |
| 61 | Empirical modelling of lake water temperature relationships: a comparison of approaches. <i>Freshwater Biology</i> , 2008, 53, 897-911. | 1.2 | 64 |
| 62 | Paleoecology of the Greater Phyllopod Bed community, Burgess Shale. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 258, 222-256. | 1.0 | 144 |
| 63 | Functional rarefaction: estimating functional diversity from field data. <i>Oikos</i> , 2008, 117, 286-296. | 1.2 | 59 |
| 64 | Life history variation parallels phylogeographical patterns in North American walleye (<i>Sander</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 | 0.7 | 20 |
| 65 | Predicting smallmouth bass (<i>Micropterus dolomieu</i>) occurrence across North America under climate change: a comparison of statistical approaches. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 471-481. | 0.7 | 34 |
| 66 | Composition of Dioxin-like PCBs in Fish: An Application for Risk Assessment. <i>Environmental Science & Technology</i> , 2007, 41, 3096-3102. | 4.6 | 52 |
| 67 | Fish Assemblages and Environmental Conditions in the Lower Reaches of Northeastern Lake Erie Tributaries. <i>Journal of Great Lakes Research</i> , 2007, 33, 15-27. | 0.8 | 12 |
| 68 | Are PCB Levels in Fish from the Canadian Great Lakes Still Declining?. <i>Journal of Great Lakes Research</i> , 2007, 33, 592. | 0.8 | 87 |
| 69 | Will northern fish populations be in hot water because of climate change?. <i>Global Change Biology</i> , 2007, 13, 2052-2064. | 4.2 | 196 |
| 70 | Reconstructing community relationships: the impact of sampling error, ordination approach, and gradient length. <i>Diversity and Distributions</i> , 2007, 13, 361-371. | 1.9 | 60 |
| 71 | Estimating dioxin-like polychlorinated biphenyl toxic equivalents from total polychlorinated biphenyl measurements in fish. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1622-1628. | 2.2 | 42 |
| 72 | Replacement of Zebra Mussels by Quagga Mussels in the Canadian Nearshore of Lake Ontario: the Importance of Substrate, Round Goby Abundance, and Upwelling Frequency. <i>Journal of Great Lakes Research</i> , 2006, 32, 11-28. | 0.8 | 119 |

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|----|--|-----|-----------|
| 73 | Characterizing north temperate lake littoral fish assemblages: a comparison between distance sampling and minnow traps. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006, 63, 558-568. | 0.7 | 13 |
| 74 | Long-term changes in legacy trace organic contaminants and mercury in Lake Ontario salmon in relation to source controls, trophodynamics, and climatic variability. <i>Limnology and Oceanography</i> , 2006, 51, 2794-2807. | 1.6 | 59 |
| 75 | Conspecific attraction during establishment of Least Flycatcher clusters. <i>Journal of Field Ornithology</i> , 2006, 77, 34-38. | 0.3 | 22 |
| 76 | Quantifying Littoral Vertical Habitat Structure and Fish Community Associations using Underwater Visual Census. <i>Environmental Biology of Fishes</i> , 2006, 75, 395-407. | 0.4 | 9 |
| 77 | How many principal components? stopping rules for determining the number of non-trivial axes revisited. <i>Computational Statistics and Data Analysis</i> , 2005, 49, 974-997. | 0.7 | 626 |
| 78 | Robust principal component analysis and outlier detection with ecological data. <i>Environmetrics</i> , 2004, 15, 129-139. | 0.6 | 71 |
| 79 | GIVING MEANINGFUL INTERPRETATION TO ORDINATION AXES: ASSESSING LOADING SIGNIFICANCE IN PRINCIPAL COMPONENT ANALYSIS. <i>Ecology</i> , 2003, 84, 2347-2363. | 1.5 | 297 |
| 80 | Predictive Models of Fish Species Distributions: A Note on Proper Validation and Chance Predictions. <i>Transactions of the American Fisheries Society</i> , 2002, 131, 329-336. | 0.6 | 159 |
| 81 | Illuminating the "black box" a randomization approach for understanding variable contributions in artificial neural networks. <i>Ecological Modelling</i> , 2002, 154, 135-150. | 1.2 | 935 |
| 82 | A comparison of statistical approaches for modelling fish species distributions. <i>Freshwater Biology</i> , 2002, 47, 1976-1995. | 1.2 | 205 |
| 83 | What controls who is where in freshwater fish communities – the roles of biotic, abiotic, and spatial factors. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 157-170. | 0.7 | 186 |
| 84 | What controls who is where in freshwater fish communities – the roles of biotic, abiotic, and spatial factors. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 157-170. | 0.7 | 751 |
| 85 | The influence of smallmouth bass (<i>Micropterus dolomieu</i>) predation and habitat complexity on the structure of littoral zone fish assemblages. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001, 58, 342-351. | 0.7 | 112 |
| 86 | The importance of scaling of multivariate analysis in ecological studies. <i>Ecoscience</i> , 2001, 8, 522-526. | 0.6 | 12 |
| 87 | History and taxonomy: their roles in the core-satellite hypothesis. <i>Oecologia</i> , 2001, 127, 131-142. | 0.9 | 22 |
| 88 | Spatial isolation and fish communities in drainage lakes. <i>Oecologia</i> , 2001, 127, 572-585. | 0.9 | 141 |
| 89 | How well do multivariate data sets match? The advantages of a Procrustean superimposition approach over the Mantel test. <i>Oecologia</i> , 2001, 129, 169-178. | 0.9 | 801 |
| 90 | Environmentally constrained null models: site suitability as occupancy criterion. <i>Oikos</i> , 2001, 93, 110-120. | 1.2 | 131 |

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|-----|--|-----|-----------|
| 91 | Fish Habitat Relationships in Lakes: Gaining Predictive and Explanatory Insight by Using Artificial Neural Networks. Transactions of the American Fisheries Society, 2001, 130, 878-897. | 0.6 | 107 |
| 92 | The influence of smallmouth bass (<i>Micropterus dolomieu</i>) predation and habitat complexity on the structure of littoral zone fish assemblages. Canadian Journal of Fisheries and Aquatic Sciences, 2001, 58, 342-351. | 0.7 | 97 |
| 93 | Torturing data for the sake of generality: How valid are our regression models?. Ecoscience, 2000, 7, 501-510. | 0.6 | 121 |
| 94 | An empirical study on estimators for linear regression analyses in fisheries and ecology. Fisheries Research, 2000, 49, 193-206. | 0.9 | 11 |
| 95 | Selective foraging in the white sucker (<i>Catostomus commersoni</i>). Canadian Journal of Zoology, 2000, 78, 1320-1331. | 0.4 | 22 |
| 96 | Selective foraging in the white sucker (<i>Catostomus commersoni</i>). Canadian Journal of Zoology, 2000, 78, 1320-1331. | 0.4 | 14 |
| 97 | Variable selection in large environmental data sets using principal components analysis. Environmetrics, 1999, 10, 67-77. | 0.6 | 151 |
| 98 | Variable selection in large environmental data sets using principal components analysis. , 1999, 10, 67. | | 5 |
| 99 | COMPOSITIONAL DATA IN COMMUNITY ECOLOGY: THE PARADIGM OR PERIL OF PROPORTIONS?. Ecology, 1997, 78, 929-940. | 1.5 | 137 |
| 100 | Qualitative and quantitative sampling of lake fish communities. Canadian Journal of Fisheries and Aquatic Sciences, 1997, 54, 2807-2813. | 0.7 | 153 |
| 101 | Bootstrapping Principal Components Analysis: Reply to Mehlman Et Al.. Ecology, 1995, 76, 644-645. | 1.5 | 22 |
| 102 | PROTEST: A PROcrustean Randomization TEST of community environment concordance. Ecoscience, 1995, 2, 297-303. | 0.6 | 444 |
| 103 | Multivariate analysis of benthic invertebrate communities: the implication of choosing particular data standardizations, measures of association, and ordination methods. Hydrobiologia, 1993, 268, 9-26. | 1.0 | 100 |
| 104 | Stopping Rules in Principal Components Analysis: A Comparison of Heuristical and Statistical Approaches. Ecology, 1993, 74, 2204-2214. | 1.5 | 1,800 |
| 105 | Fish and Benthic Invertebrates: Community Concordance and Community Environment Relationships. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 2641-2651. | 0.7 | 137 |
| 106 | Adjusting Mercury Concentration for Fish-Size Covariation: A Multivariate Alternative to Bivariate Regression. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 2388-2396. | 0.7 | 46 |
| 107 | Null Models and Fish Communities: Evidence of Nonrandom Patterns. American Naturalist, 1992, 139, 930-951. | 1.0 | 117 |
| 108 | Putting Things in Order: The Ups and Downs of Detrended Correspondence Analysis. American Naturalist, 1991, 137, 704-712. | 1.0 | 91 |

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|-----|--|-----|-----------|
| 109 | Ratios in Aquatic Sciences: Statistical Shortcomings with Mean Depth and the Morphoedaphic Index. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 1788-1795. | 0.7 | 76 |
| 110 | Biogeographic Associations in Fish Assemblages: Local vs. Regional Processes. Ecology, 1989, 70, 1472-1484. | 1.5 | 167 |
| 111 | Are probability estimates from the permutation model of Mantel's test stable?. Canadian Journal of Zoology, 1989, 67, 766-769. | 0.4 | 136 |
| 112 | Similarity Coefficients: Measures of Co-Occurrence and Association or Simply Measures of Occurrence?. American Naturalist, 1989, 133, 436-453. | 1.0 | 246 |