

Donald A Jackson

List of Publications by Year in descending order

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112
papers

11,220
citations

50276

46
h-index

30087

103
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112
all docs

112
docs citations

112
times ranked

12706
citing authors

#	ARTICLE	IF	CITATIONS
1	Stopping Rules in Principal Components Analysis: A Comparison of Heuristical and Statistical Approaches. <i>Ecology</i> , 1993, 74, 2204-2214.	3.2	1,800
2	Illuminating the "black box": a randomization approach for understanding variable contributions in artificial neural networks. <i>Ecological Modelling</i> , 2002, 154, 135-150.	2.5	935
3	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.	2.0	801
4	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.	1.4	751
5	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.	1.2	626
6	PROTEST: A PROcrustean Randomization TEST of community environment concordance. <i>Ecoscience</i> , 1995, 2, 297-303.	1.4	444
7	GIVING MEANINGFUL INTERPRETATION TO ORDINATION AXES: ASSESSING LOADING SIGNIFICANCE IN PRINCIPAL COMPONENT ANALYSIS. <i>Ecology</i> , 2003, 84, 2347-2363.	3.2	297
8	Similarity Coefficients: Measures of Co-Occurrence and Association or Simply Measures of Occurrence?. <i>American Naturalist</i> , 1989, 133, 436-453.	2.1	246
9	Impacts of temperature and selected chemical digestion methods on microplastic particles. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 91-98.	4.3	235
10	A comparison of statistical approaches for modelling fish species distributions. <i>Freshwater Biology</i> , 2002, 47, 1976-1995.	2.4	205
11	Will northern fish populations be in hot water because of climate change?. <i>Global Change Biology</i> , 2007, 13, 2052-2064.	9.5	196
12	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.	1.4	186
13	Biogeographic Associations in Fish Assemblages: Local vs. Regional Processes. <i>Ecology</i> , 1989, 70, 1472-1484.	3.2	167
14	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.	1.4	159
15	Qualitative and quantitative sampling of lake fish communities. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1997, 54, 2807-2813.	1.4	153
16	Variable selection in large environmental data sets using principal components analysis. <i>Environmetrics</i> , 1999, 10, 67-77.	1.4	151
17	Paleoecology of the Greater Phyllopod Bed community, Burgess Shale. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2008, 258, 222-256.	2.3	144
18	Spatial isolation and fish communities in drainage lakes. <i>Oecologia</i> , 2001, 127, 572-585.	2.0	141

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19	Fish and Benthic Invertebrates: Community Concordance and Community-Environment Relationships. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 2641-2651.	1.4	137
20	COMPOSITIONAL DATA IN COMMUNITY ECOLOGY: THE PARADIGM OR PERIL OF PROPORTIONS?. Ecology, 1997, 78, 929-940.	3.2	137
21	Are probability estimates from the permutation model of Mantel's test stable?. Canadian Journal of Zoology, 1989, 67, 766-769.	1.0	136
22	Environmentally constrained null models: site suitability as occupancy criterion. Oikos, 2001, 93, 110-120.	2.7	131
23	Torturing data for the sake of generality: How valid are our regression models?. Ecoscience, 2000, 7, 501-510.	1.4	121
24	Replacement of Zebra Mussels by Quagga Mussels in the Canadian Nearshore of Lake Ontario: the Importance of Substrate, Round Goby Abundance, and Upwelling Frequency. Journal of Great Lakes Research, 2006, 32, 11-28.	1.9	119
25	Addressing the removal of rare species in multivariate bioassessments: The impact of methodological choices. Ecological Indicators, 2012, 18, 82-90.	6.3	119
26	Null Models and Fish Communities: Evidence of Nonrandom Patterns. American Naturalist, 1992, 139, 930-951.	2.1	117
27	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.	1.4	112
28	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.	1.4	107
29	Ontario freshwater fishes demonstrate differing range-boundary shifts in a warming climate. Diversity and Distributions, 2014, 20, 123-136.	4.1	104
30	Functional diversity indices can be driven by methodological choices and species richness. Ecology, 2009, 90, 341-347.	3.2	102
31	Multivariate analysis of benthic invertebrate communities: the implication of choosing particular data standardizations, measures of association, and ordination methods. Hydrobiologia, 1993, 268, 9-26.	2.0	100
32	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.	1.4	97
33	Putting Things in Order: The Ups and Downs of Detrended Correspondence Analysis. American Naturalist, 1991, 137, 704-712.	2.1	91
34	Are PCB Levels in Fish from the Canadian Great Lakes Still Declining?. Journal of Great Lakes Research, 2007, 33, 592.	1.9	87
35	Meta-analysis suggests biotic resistance in freshwater environments is driven by consumption rather than competition. Ecology, 2014, 95, 3259-3270.	3.2	82
36	Ratios in Aquatic Sciences: Statistical Shortcomings with Mean Depth and the Morphoedaphic Index. Canadian Journal of Fisheries and Aquatic Sciences, 1990, 47, 1788-1795.	1.4	76

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37	Robust principal component analysis and outlier detection with ecological data. <i>Environmetrics</i> , 2004, 15, 129-139.	1.4	71
38	Empirical modelling of lake water temperature relationships: a comparison of approaches. <i>Freshwater Biology</i> , 2008, 53, 897-911.	2.4	64
39	Window collisions by migratory bird species: urban geographical patterns and habitat associations. <i>Urban Ecosystems</i> , 2015, 18, 1427-1446.	2.4	63
40	Reconstructing community relationships: the impact of sampling error, ordination approach, and gradient length. <i>Diversity and Distributions</i> , 2007, 13, 361-371.	4.1	60
41	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.	3.1	59
42	Functional rarefaction: estimating functional diversity from field data. <i>Oikos</i> , 2008, 117, 286-296.	2.7	59
43	Habitat alteration and habitat fragmentation differentially affect beta diversity of stream fish communities. <i>Landscape Ecology</i> , 2017, 32, 647-662.	4.2	53
44	Composition of Dioxin-like PCBs in Fish: An Application for Risk Assessment. <i>Environmental Science & Technology</i> , 2007, 41, 3096-3102.	10.0	52
45	Multispecies crayfish declines in lakes: implications for species distributions and richness. <i>Journal of the North American Benthological Society</i> , 2009, 28, 719-732.	3.1	48
46	Adjusting Mercury Concentration for Fish-Size Covariation: A Multivariate Alternative to Bivariate Regression. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993, 50, 2388-2396.	1.4	46
47	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.	1.9	44
48	Estimating dioxin-like polychlorinated biphenyl toxic equivalents from total polychlorinated biphenyl measurements in fish. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1622-1628.	4.3	42
49	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.	4.5	41
50	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.	9.5	41
51	Linking the ball-and-cup analogy and ordination trajectories to describe ecosystem stability, resistance, and resilience. <i>Ecosphere</i> , 2019, 10, e02629.	2.2	38
52	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.	1.4	34
53	Microplastic contamination in Great Lakes fish. <i>Conservation Biology</i> , 2022, 36, .	4.7	32
54	Random-effects ordination: describing and predicting multivariate correlations and co-occurrences. <i>Ecological Monographs</i> , 2011, 81, 635-663.	5.4	29

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55	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.	2.0	28
56	Functional diversity and redundancy of freshwater fish communities across biogeographic and environmental gradients. <i>Diversity and Distributions</i> , 2018, 24, 1612-1626.	4.1	23
57	Salty summertime streams—road salt contaminated watersheds and estimates of the proportion of impacted species. <i>Facets</i> , 2021, 6, 317-333.	2.4	23
58	Bootstrapping Principal Components Analysis: Reply to Mehlman Et Al.. <i>Ecology</i> , 1995, 76, 644-645.	3.2	22
59	Selective foraging in the white sucker (<i>Catostomus commersoni</i>). <i>Canadian Journal of Zoology</i> , 2000, 78, 1320-1331.	1.0	22
60	History and taxonomy: their roles in the core-satellite hypothesis. <i>Oecologia</i> , 2001, 127, 131-142.	2.0	22
61	Conspecific attraction during establishment of Least Flycatcher clusters. <i>Journal of Field Ornithology</i> , 2006, 77, 34-38.	0.5	22
62	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.	1.4	22
63	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.	3.4	21
64	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.	2.6	21
65	Life history variation parallels phylogeographical patterns in North American walleye (<i>Sander</i>) Tj ETQq1 1 0.784314,rgBT /Overlock 10	1.4	20
66	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
67	The response of amphibian larvae to environmental change is both consistent and variable. <i>Oikos</i> , 2016, 125, 1700-1711.	2.7	20
68	Species-pair associations, null models, and tests of mechanisms structuring ecological communities. <i>Ecosphere</i> , 2019, 10, e02797.	2.2	19
69	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.	4.2	18
70	Effects of broad-scale geological changes on patterns in macroinvertebrate assemblages. <i>Journal of the North American Benthological Society</i> , 2011, 30, 459-473.	3.1	17
71	Impact of species-specific dispersal and regional stochasticity on estimates of population viability in stream metapopulations. <i>Landscape Ecology</i> , 2012, 27, 405-416.	4.2	17
72	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.	1.9	17

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73	Trends of legacy and emerging-issue contaminants in Lake Simcoe fishes. <i>Journal of Great Lakes Research</i> , 2011, 37, 148-159.	1.9	16
74	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.	2.4	16
75	Geology as a Structuring Mechanism of Stream Fish Communities. <i>Transactions of the American Fisheries Society</i> , 2012, 141, 962-974.	1.4	15
76	Estimating local and regional population sizes for an endangered minnow, redbreast sunfish (<i>Lepomis gibbosus</i>) in the Great Lakes Basin. <i>Journal of Great Lakes Research</i> , 2011, 37, 148-159.	2.6	15
77	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.	2.4	15
78	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.	1.4	15
79	Climate warming moderates the impacts of introduced sportfish on multiple dimensions of prey biodiversity. <i>Global Change Biology</i> , 2020, 26, 4937-4951.	9.5	15
80	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.	1.4	14
81	Selective foraging in the white sucker (<i>Catostomus commersoni</i>). <i>Canadian Journal of Zoology</i> , 2000, 78, 1320-1331.	1.0	14
82	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.	1.4	13
83	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.	1.0	13
84	Evaluating the effect of lake calcium concentration on the acquisition of carapace calcium by freshwater crayfish. <i>Hydrobiologia</i> , 2015, 744, 91-100.	2.0	13
85	Shifting trophic control of fishery ecosystem dynamics following biological invasions. <i>Ecological Applications</i> , 2020, 30, e02190.	3.8	13
86	The importance of scaling of multivariate analysis in ecological studies. <i>Ecoscience</i> , 2001, 8, 522-526.	1.4	12
87	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.	1.9	12
88	An empirical study on estimators for linear regression analyses in fisheries and ecology. <i>Fisheries Research</i> , 2000, 49, 193-206.	1.7	11
89	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.	1.4	10
90	Quantifying Littoral Vertical Habitat Structure and Fish Community Associations using Underwater Visual Census. <i>Environmental Biology of Fishes</i> , 2006, 75, 395-407.	1.0	9

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91	UNCERTAINTY ANALYSIS OF DIOXIN-LIKE POLYCHLORINATED BIPHENYLS-RELATED TOXIC EQUIVALENTS IN FISH. <i>Environmental Toxicology and Chemistry</i> , 2008, 27, 997.	4.3	9
92	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.	3.6	9
93	Approaches and research needs for advancing the protection and recovery of imperilled freshwater fishes and mussels in Canada. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1356-1370.	1.4	9
94	Effect of lake size, isolation and top predator presence on nested fish community structure. <i>Journal of Biogeography</i> , 2016, 43, 1425-1435.	3.0	8
95	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.	7.1	8
96	Describing Flowering Schedule Shape through Multivariate Ordination. <i>International Journal of Plant Sciences</i> , 2014, 175, 70-79.	1.3	7
97	Utilizing gradient simulations for quantifying community-level resistance and resilience. <i>Ecosphere</i> , 2017, 8, e01953.	2.2	7
98	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.	1.4	7
99	Exploratory analysis of multivariate data: Applications of parallel coordinates in ecology. <i>Ecological Informatics</i> , 2021, 64, 101361.	5.2	7
100	Putting the Mantel test back together again. <i>Ecology</i> , 2022, 103, .	3.2	7
101	Fifteen years of Canada's Species at Risk Act: Evaluating research progress for aquatic species in the Great Lakes' St. Lawrence River basin. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 1205-1218.	1.4	5
102	Variable selection in large environmental data sets using principal components analysis. <i>Environmetrics</i> , 1999, 10, 67-77.	1.4	5
103	Bioregions are predominantly climatic for fishes of northern lakes. <i>Global Ecology and Biogeography</i> , 2022, 31, 233-246.	5.8	5
104	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.	2.4	4
105	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.	0.3	4
106	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.	5.3	4
107	Synthesizing reference conditions for highly degraded areas through best professional judgment. <i>Journal of Great Lakes Research</i> , 2014, 40, 37-42.	1.9	3
108	Abiotic factors influence species co-occurrence patterns of lake fishes. <i>Journal of Animal Ecology</i> , 2021, 90, 2859-2874.	2.8	3

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109	Weighted stream temperature tolerance index is insensitive to changes in stream fish composition. <i>Freshwater Science</i> , 2022, 41, 386-397.	1.8	2
110	Size spectrum model reveals importance of considering species interactions in a freshwater fisheries management context. <i>Ecosphere</i> , 2022, 13, .	2.2	2
111	Communication and cohesion in aquatic science literature. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009, 66, 701-712.	1.4	1
112	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