

J David Allan

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

18,080
citations

61857

43
h-index

82410

72
g-index

83
all docs

83
docs citations

83
times ranked

13154
citing authors

#	ARTICLE	IF	CITATIONS
1	The Natural Flow Regime. <i>BioScience</i> , 1997, 47, 769-784.	2.2	5,166
2	Landscapes and Riverscapes: The Influence of Land Use on Stream Ecosystems. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2004, 35, 257-284.	3.8	2,605
3	Functional Organization of Stream Fish Assemblages in Relation to Hydrological Variability. <i>Ecology</i> , 1995, 76, 606-627.	1.5	836
4	Biodiversity Conservation in Running Waters. <i>BioScience</i> , 1993, 43, 32-43.	2.2	800
5	Stream Ecology. , 2007, , .		786
6	Landscape influences on stream biotic integrity assessed at multiple spatial scales. <i>Landscape Ecology</i> , 1996, 11, 141-156.	1.9	651
7	Overfishing of Inland Waters. <i>BioScience</i> , 2005, 55, 1041.	2.2	529
8	Life History Patterns in Zooplankton. <i>American Naturalist</i> , 1976, 110, 165-180.	1.0	497
9	Assessing and addressing the re-eutrophication of Lake Erie: Central basin hypoxia. <i>Journal of Great Lakes Research</i> , 2014, 40, 226-246.	0.8	421
10	Unlocking the potential of protected areas for freshwaters. <i>Biological Conservation</i> , 2007, 134, 48-63.	1.9	420
11	River flows and water wars: emerging science for environmental decision making. <i>Frontiers in Ecology and the Environment</i> , 2003, 1, 298-306.	1.9	416
12	ENVIRONMENTAL AUDITING: Assessing Biotic Integrity of Streams: Effects of Scale in Measuring the Influence of Land Use/Cover and Habitat Structure on Fish and Macroinvertebrates. <i>Environmental Management</i> , 1999, 23, 257-270.	1.2	389
13	Restoring Rivers One Reach at a Time: Results from a Survey of U.S. River Restoration Practitioners. <i>Restoration Ecology</i> , 2007, 15, 482-493.	1.4	382
14	Joint analysis of stressors and ecosystem services to enhance restoration effectiveness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 372-377.	3.3	305
15	River Restoration in the Twenty-first Century: Data and Experiential Knowledge to Inform Future Efforts. <i>Restoration Ecology</i> , 2007, 15, 472-481.	1.4	206
16	Trout predation and the size composition of stream drift 1. <i>Limnology and Oceanography</i> , 1978, 23, 1231-1237.	1.6	195
17	The Distributional Ecology and Diversity of Benthic Insects in Cement Creek, Colorado. <i>Ecology</i> , 1975, 56, 1040-1053.	1.5	187
18	The Effects of Reduction in Trout Density on the Invertebrate Community of a Mountain Stream. <i>Ecology</i> , 1982, 63, 1444-1455.	1.5	185

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19	Determinants of Diet of Brook Trout (<i>Salvelinus fontinalis</i>) in a Mountain Stream. Canadian Journal of Fisheries and Aquatic Sciences, 1981, 38, 184-192.	0.7	182
20	Restoring aquatic ecosystem connectivity requires expanding inventories of both dams and road crossings. Frontiers in Ecology and the Environment, 2013, 11, 211-217.	1.9	163
21	Influence of streamside vegetation on inputs of terrestrial invertebrates to salmonid food webs. Canadian Journal of Fisheries and Aquatic Sciences, 2003, 60, 309-320.	0.7	149
22	The importance of predation, substrate and spatial refugia in determining lotic insect distributions. Oecologia, 1984, 64, 306-313.	0.9	145
23	Life Table Evaluation of Chronic Exposure to a Pesticide. Canadian Journal of Fisheries and Aquatic Sciences, 1981, 38, 485-494.	0.7	142
24	Interacting effects of climate change and agricultural BMPs on nutrient runoff entering Lake Erie. Journal of Great Lakes Research, 2014, 40, 581-589.	0.8	123
25	The Quantification of Stream Drift. Canadian Journal of Fisheries and Aquatic Sciences, 1985, 42, 210-215.	0.7	116
26	Scenario-testing of agricultural best management practices in Lake Erie watersheds. Journal of Great Lakes Research, 2013, 39, 429-436.	0.8	110
27	Terrestrial Reserve Networks Do Not Adequately Represent Aquatic Ecosystems. Conservation Biology, 2010, 24, 1002-1011.	2.4	108
28	Using cultural ecosystem services to inform restoration priorities in the Laurentian Great Lakes. Frontiers in Ecology and the Environment, 2015, 13, 418-424.	1.9	104
29	Ecological Success in Stream Restoration: Case Studies from the Midwestern United States. Environmental Management, 2007, 40, 245-255.	1.2	94
30	Components of diversity. Oecologia, 1975, 18, 359-367.	0.9	92
31	Feeding Habits and Prey Consumption of Three Setipalpiid Stoneflies (Plecoptera) in a Mountain Stream. Ecology, 1982, 63, 26-34.	1.5	92
32	Spatial and temporal variation in phosphorus budgets for 24 watersheds in the Lake Erie and Lake Michigan basins. Biogeochemistry, 2011, 102, 45-58.	1.7	84
33	Influence of Climate and Human Activities on the Relationship between Watershed Nitrogen Input and River Export. Environmental Science & Technology, 2009, 43, 1916-1922.	4.6	79
34	An analysis of seasonal dynamics of a mixed population of Daphnia, and the associated cladoceran community. Freshwater Biology, 1977, 7, 505-512.	1.2	67
35	Nutrient Subsidies from Iteroparous Fish Migrations Can Enhance Stream Productivity. Ecosystems, 2014, 17, 522-534.	1.6	64
36	Estimation of nitrogen inputs to catchments: comparison of methods and consequences for riverine export prediction. Biogeochemistry, 2008, 91, 177-199.	1.7	62

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37	Rating impacts in a multi-stressor world: a quantitative assessment of 50 stressors affecting the Great Lakes. <i>Ecological Applications</i> , 2015, 25, 717-728.	1.8	60
38	Predator-Prey Relationships in Streams. , 1983, , 191-229.		59
39	Relationship of fish and macroinvertebrate assemblages to environmental factors: implications for community concordance. <i>Hydrobiologia</i> , 2009, 623, 87-103.	1.0	59
40	Ecosystem services in the Great Lakes. <i>Journal of Great Lakes Research</i> , 2017, 43, 161-168.	0.8	56
41	Application of the Soil and Water Assessment Tool for six watersheds of Lake Erie: Model parameterization and calibration. <i>Journal of Great Lakes Research</i> , 2011, 37, 263-271.	0.8	54
42	Stream Restoration in the Upper Midwest, U.S.A.. <i>Restoration Ecology</i> , 2006, 14, 595-604.	1.4	52
43	Historical pattern of phosphorus loading to Lake Erie watersheds. <i>Journal of Great Lakes Research</i> , 2012, 38, 289-298.	0.8	51
44	Spatial patterns in land cover of exurbanizing watersheds in southeastern Michigan. <i>Landscape and Urban Planning</i> , 2004, 66, 107-123.	3.4	50
45	Macroinvertebrate drift in a Rocky Mountain stream. <i>Hydrobiologia</i> , 1987, 144, 261-268.	1.0	48
46	Seasonal and interannual variation of bacterial production in lowland rivers of the Orinoco basin. <i>Freshwater Biology</i> , 2004, 49, 1400-1414.	1.2	40
47	Uneven rise in N inputs to the Lake Michigan Basin over the 20th century corresponds to agricultural and societal transitions. <i>Biogeochemistry</i> , 2012, 109, 175-187.	1.7	39
48	Investigating the relationships between environmental stressors and stream condition using Bayesian belief networks. <i>Freshwater Biology</i> , 2012, 57, 58-73.	1.2	39
49	LIFE HISTORY VARIATION IN A FRESHWATER COPEPOD: EVIDENCE FROM POPULATION CROSSES. <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 280-291.	1.1	37
50	The influence of impoundments on nutrient budgets in two catchments of Southeastern Michigan. <i>Biogeochemistry</i> , 2008, 87, 325-338.	1.7	37
51	Functional convergence of fish assemblages in urban streams of Brazil and the United States. <i>Ecological Indicators</i> , 2011, 11, 1354-1359.	2.6	32
52	Prey size selection by carnivorous stoneflies ¹ . <i>Limnology and Oceanography</i> , 1987, 32, 864-872.	1.6	31
53	Bottom-up controls on bacterial production in tropical lowland rivers. <i>Limnology and Oceanography</i> , 2003, 48, 1466-1475.	1.6	31
54	Stream Restoration Databases and Case Studies: A Guide to Information Resources and Their Utility in Advancing the Science and Practice of Restoration. <i>Restoration Ecology</i> , 2006, 14, 177-186.	1.4	31

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55	Flight direction in some rocky mountain mayflies (Ephemeroptera), with observations of parasitism. <i>Aquatic Insects</i> , 1988, 10, 33-42.	0.6	29
56	Evidence for interactions among environmental stressors in the Laurentian Great Lakes. <i>Ecological Indicators</i> , 2019, 101, 203-211.	2.6	29
57	The cost of reproduction in a freshwater copepod. <i>Oecologia</i> , 1983, 56, 166-168.	0.9	28
58	Habitat Assessment of Non-Wadeable Rivers in Michigan. <i>Environmental Management</i> , 2005, 36, 592-609.	1.2	26
59	Understanding the impacts of agriculture on Andean stream ecosystems of Colombia: a causal analysis using aquatic macroinvertebrates as indicators of biological integrity. <i>Freshwater Science</i> , 2015, 34, 727-740.	0.9	26
60	Abundances and Production of Copepods in the Rhode River Subestuary of Chesapeake Bay. <i>Chesapeake Science</i> , 1976, 17, 86.	0.5	25
61	Prioritizing ecological restoration among sites in multi-stressor landscapes. <i>Ecological Applications</i> , 2016, 26, 1785-1796.	1.8	25
62	Ecosystem services of Lake Erie: Spatial distribution and concordance of multiple services. <i>Journal of Great Lakes Research</i> , 2017, 43, 678-688.	0.8	21
63	Foliage arthropod communities of crop and fallow fields. <i>Oecologia</i> , 1975, 22, 49-56.	0.9	19
64	Nutrient fluxes across reaches and impoundments in two southeastern Michigan watersheds. <i>Lake and Reservoir Management</i> , 2009, 25, 389-400.	0.4	16
65	Male body size and mating success in swarms of the mayfly <i>Epeorus longimanus</i> . <i>Ecography</i> , 1988, 11, 280-285.	2.1	13
66	Perspective: Communicating our science to influence public policy. <i>Journal of the North American Benthological Society</i> , 2008, 27, 562-569.	3.0	12
67	CHANGING NEAR-STREAM LAND USE AND RWER CHANNEL MORPHOLOGY IN THE VENEZUELAN ANDES. <i>Journal of the American Water Resources Association</i> , 2001, 37, 1579-1587.	1.0	11
68	Biological evaluation of Michigan's non-wadeable rivers using macroinvertebrates. <i>Aquatic Ecosystem Health and Management</i> , 2008, 11, 335-351.	0.3	9
69	Pelagic phytoplankton community change-points across nutrient gradients and in response to invasive mussels. <i>Freshwater Biology</i> , 2017, 62, 366-381.	1.2	7
70	Lake hydrodynamics intensify the potential impact of watershed pollutants on coastal ecosystem services. <i>Environmental Research Letters</i> , 2020, 15, 064028.	2.2	7
71	Riparian shade and stream temperatures in an agricultural catchment, Michigan, USA. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2002, 28, 232-237.	0.1	5
72	Diet of brook trout (<i>Salvelinus fontinalis</i> Mitchell) and brown trout (<i>Salmo trutta</i> L.) in an alpine stream. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 1978, 20, 2045-2050.	0.1	4

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73	OVERVIEW AND PROSPECTS. , 2005, , 1086-1103.		4
74	Assessment of quantitative food web metrics for investigating the influence of land use on warm water fish diets. Hydrobiologia, 2011, 664, 1-15.	1.0	4
75	The production ecology of Ephemeroptera in a Rocky Mountain stream. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 1985, 22, 3233-3237.	0.1	1
76	Stream Microbial Ecology. , 2021, , 225-245.		1
77	Streamflow. , 2021, , 19-44.		0
78	Trophic Relationships. , 2021, , 247-284.		0
79	Species Interactions. , 2021, , 285-324.		0
80	How We Manage Rivers, and Why. , 2021, , 453-480.		0
81	Rivers in the Anthropocene. , 2021, , 1-17.		0
82	Lotic Communities. , 2021, , 325-355.		0
83	Nutrient Dynamics. , 2021, , 383-420.		0