

# Thomas A. Davidson

## List of Publications by Year in descending order

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104  
papers

4,989  
citations

109321

35  
h-index

102487

66  
g-index

108  
all docs

108  
docs citations

108  
times ranked

5363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zooplankton as indicators in lakes: a scientific-based plea for including zooplankton in the ecological quality assessment of lakes according to the European Water Framework Directive (WFD). <i>Hydrobiologia</i> , 2011, 676, 279-297.	2.0	292
2	Climate change impacts on lakes: an integrated ecological perspective based on a multi-faceted approach, with special focus on shallow lakes. <i>Journal of Limnology</i> , 2014, 73, .	1.1	235
3	Rapid evolution of thermal tolerance in the water flea <i>Daphnia</i> . <i>Nature Climate Change</i> , 2015, 5, 665-668.	18.8	230
4	Current-Use Brominated Flame Retardants in Water, Sediment, and Fish from English Lakes. <i>Environmental Science &amp; Technology</i> , 2009, 43, 9077-9083.	10.0	221
5	Biomanipulation as a Restoration Tool to Combat Eutrophication. <i>Advances in Ecological Research</i> , 2012, 47, 411-488.	2.7	211
6	Long-term dynamics of submerged macrophytes and algae in a small and shallow, eutrophic lake: implications for the stability of macrophyte dominance. <i>Freshwater Biology</i> , 2010, 55, 565-583.	2.4	157
7	Defining reference conditions and restoration targets for lake ecosystems using palaeolimnology: a synthesis. <i>Journal of Paleolimnology</i> , 2011, 45, 533-544.	1.6	153
8	Seasonal dynamics of macrophytes and phytoplankton in shallow lakes: a eutrophication-driven pathway from plants to plankton?. <i>Freshwater Biology</i> , 2010, 55, 500-513.	2.4	136
9	Eutrophication effects on greenhouse gas fluxes from shallow lake mesocosms override those of climate warming. <i>Global Change Biology</i> , 2015, 21, 4449-4463.	9.5	132
10	Synergy between nutrients and warming enhances methane ebullition from experimental lakes. <i>Nature Climate Change</i> , 2018, 8, 156-160.	18.8	130
11	Meta-analysis Shows a Consistent and Strong Latitudinal Pattern in Fish Omnivory Across Ecosystems. <i>Ecosystems</i> , 2012, 15, 492-503.	3.4	121
12	A framework for testing the ability of models to project climate change and its impacts. <i>Climatic Change</i> , 2014, 122, 271-282.	3.6	104
13	Ecological influences on larval chironomid communities in shallow lakes: implications for palaeolimnological interpretations. <i>Freshwater Biology</i> , 2010, 55, 531-545.	2.4	103
14	A 250 year comparison of historical, macrofossil and pollen records of aquatic plants in a shallow lake. <i>Freshwater Biology</i> , 2005, 50, 1671-1686.	2.4	102
15	Combining contemporary ecology and palaeolimnology to understand shallow lake ecosystem change. <i>Freshwater Biology</i> , 2010, 55, 487-499.	2.4	102
16	How autochthonous dissolved organic matter responds to eutrophication and climate warming: Evidence from a cross-continental data analysis and experiments. <i>Earth-Science Reviews</i> , 2018, 185, 928-937.	9.1	98
17	Response of Submerged Macrophyte Communities to External and Internal Restoration Measures in North Temperate Shallow Lakes. <i>Frontiers in Plant Science</i> , 2018, 9, 194.	3.6	97
18	World distribution, diversity and endemism of aquatic macrophytes. <i>Aquatic Botany</i> , 2019, 158, 103127.	1.6	93

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19	The simultaneous inference of zooplanktivorous fish and macrophyte density from sub-fossil cladoceran assemblages: a multivariate regression tree approach. <i>Freshwater Biology</i> , 2010, 55, 546-564.	2.4	87
20	Are the controls of species composition similar for contemporary and sub-fossil cladoceran assemblages? A study of 39 shallow lakes of contrasting trophic status. <i>Journal of Paleolimnology</i> , 2007, 38, 117-134.	1.6	80
21	Seasonal Dynamics of CO <sub>2</sub> Flux Across the Surface of Shallow Temperate Lakes. <i>Ecosystems</i> , 2012, 15, 336-347.	3.4	75
22	Seasonal and spatial hydrological variability drives aquatic biodiversity in a flood-pulsed, subtropical wetland. <i>Freshwater Biology</i> , 2012, 57, 1253-1265.	2.4	62
23	The role of palaeolimnology in assessing eutrophication and its impact on lakes. <i>Journal of Paleolimnology</i> , 2013, 49, 391-410.	1.6	61
24	Back to the future: using palaeolimnology to infer long-term changes in shallow lake food webs. <i>Freshwater Biology</i> , 2010, 55, 600-613.	2.4	60
25	Inferring past zooplanktivorous fish and macrophyte density in a shallow lake: application of a new regression tree model. <i>Freshwater Biology</i> , 2010, 55, 584-599.	2.4	59
26	Small birds, big effects: the little auk ( <i>Alle alle</i> ) transforms high Arctic ecosystems. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162572.	2.6	57
27	Ecological resilience in lakes and the conjunction fallacy. <i>Nature Ecology and Evolution</i> , 2017, 1, 1616-1624.	7.8	52
28	Assessing aquatic macrophyte community change through the integration of palaeolimnological and historical data at Loch Leven, Scotland. <i>Journal of Paleolimnology</i> , 2010, 43, 191-204.	1.6	51
29	Autochthonous dissolved organic matter potentially fuels methane ebullition from experimental lakes. <i>Water Research</i> , 2019, 166, 115048.	11.3	48
30	The role of cladocerans in tracking long-term change in shallow lake trophic status. <i>Hydrobiologia</i> , 2011, 676, 299-315.	2.0	45
31	Zooplankton response to climate warming: a mesocosm experiment at contrasting temperatures and nutrient levels. <i>Hydrobiologia</i> , 2015, 742, 185-203.	2.0	45
32	Taxonomic or ecological approaches? Searching for phytoplankton surrogates in the determination of richness and assemblage composition in ponds. <i>Ecological Indicators</i> , 2012, 18, 575-585.	6.3	44
33	The application of palaeolimnology to evidence-based lake management and conservation: examples from UK lakes. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2012, 22, 165-180.	2.0	41
34	Palaeolimnological records of shallow lake biodiversity change: exploring the merits of single versus multi-proxy approaches. <i>Journal of Paleolimnology</i> , 2013, 49, 431-446.	1.6	41
35	Feedback between climate change and eutrophication: revisiting the allied attack concept and how to strike back. <i>Inland Waters</i> , 2022, 12, 187-204.	2.2	41
36	Paleolimnological records reveal biotic homogenization driven by eutrophication in tropical reservoirs. <i>Journal of Paleolimnology</i> , 2018, 60, 299-309.	1.6	38

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37	Strong altitudinal control on the response of local glaciers to Holocene climate change in southwest Greenland. <i>Quaternary Science Reviews</i> , 2017, 168, 69-78.	3.0	37
38	Eutrophication homogenizes shallow lake macrophyte assemblages over space and time. <i>Ecosphere</i> , 2018, 9, e02406.	2.2	37
39	Cross-taxon congruence in lake plankton largely independent of environmental gradients. <i>Ecology</i> , 2014, 95, 2778-2788.	3.2	35
40	Relationships between fish feeding guild and trophic structure in English lowland shallow lakes subject to anthropogenic influence: implications for lake restoration. <i>Aquatic Ecology</i> , 2006, 40, 391-405.	1.5	34
41	Spatial and Seasonal Variability in Surface Water Chemistry in the Okavango Delta, Botswana: A Multivariate Approach. <i>Wetlands</i> , 2011, 31, 815-829.	1.5	34
42	Homogenization of fish assemblages in different lake depth strata at local and regional scales. <i>Freshwater Biology</i> , 2015, 60, 745-757.	2.4	34
43	Recent Sedimentation Rates of Shallow Lakes in the Middle and Lower Reaches of the Yangtze River: Patterns, Controlling Factors and Implications for Lake Management. <i>Water (Switzerland)</i> , 2017, 9, 617.	2.7	34
44	Predictability of the impact of multiple stressors on the keystone species <i>Daphnia</i> . <i>Scientific Reports</i> , 2018, 8, 17572.	3.3	32
45	Representation of fish communities by scale sub-fossils in shallow lakes: implications for inferring percid-cyprinid shifts. <i>Journal of Paleolimnology</i> , 2003, 30, 441-449.	1.6	31
46	Similarity between contemporary vegetation and plant remains in the surface sediment in Mediterranean lakes. <i>Freshwater Biology</i> , 2014, 59, 724-736.	2.4	31
47	On the crucial importance of a small bird: The ecosystem services of the little auk ( <i>Alle alle</i> ) population in Northwest Greenland in a long-term perspective. <i>Ambio</i> , 2018, 47, 226-243.	5.5	31
48	Long-Term Trends and Temporal Synchrony in Plankton Richness, Diversity and Biomass Driven by Re-Oligotrophication and Climate across 17 Danish Lakes. <i>Water (Switzerland)</i> , 2016, 8, 427.	2.7	30
49	Vulnerability of the North Water ecosystem to climate change. <i>Nature Communications</i> , 2021, 12, 4475.	12.8	30
50	Stable isotope analysis confirms substantial differences between subtropical and temperate shallow lake food webs. <i>Hydrobiologia</i> , 2017, 784, 111-123.	2.0	29
51	Hydrological alterations as the major driver on environmental change in a floodplain Lake Poyang (China): Evidence from monitoring and sediment records. <i>Journal of Great Lakes Research</i> , 2018, 44, 377-387.	1.9	29
52	Phytoplankton Community Response to Nutrients, Temperatures, and a Heat Wave in Shallow Lakes: An Experimental Approach. <i>Water (Switzerland)</i> , 2020, 12, 3394.	2.7	29
53	Using palaeolimnological data and historical records to assess long-term dynamics of ecosystem services in typical Yangtze shallow lakes (China). <i>Science of the Total Environment</i> , 2017, 584-585, 791-802.	8.0	28
54	The structuring role of fish in Greenland lakes: an overview based on contemporary and paleoecological studies of 87 lakes from the low and the high Arctic. <i>Hydrobiologia</i> , 2017, 800, 99-113.	2.0	28

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55	Harnessing the potential of the multi-indicator palaeoecological approach: an assessment of the nature and causes of ecological change in a eutrophic shallow lake. <i>Freshwater Biology</i> , 2015, 60, 1423-1442.	2.4	27
56	Consequences of Fish Kills for Long-Term Trophic Structure in Shallow Lakes: Implications for Theory and Restoration. <i>Ecosystems</i> , 2016, 19, 1289-1309.	3.4	25
57	Big Ben: a new wide-bore piston corer for multi-proxy palaeolimnology. <i>Journal of Paleolimnology</i> , 2014, 51, 79-86.	1.6	24
58	Latitudinal variation in global range-size of aquatic macrophyte species shows evidence for a Rapoport effect. <i>Freshwater Biology</i> , 2020, 65, 1622-1640.	2.4	24
59	Diatom sensitivity to hydrological and nutrient variability in a subtropical, flood-pulse wetland. <i>Ecohydrology</i> , 2012, 5, 491-502.	2.4	23
60	Major changes in CO <sub>2</sub> efflux when shallow lakes shift from a turbid to a clear water state. <i>Hydrobiologia</i> , 2016, 778, 33-44.	2.0	22
61	Heat-wave effects on greenhouse gas emissions from shallow lake mesocosms. <i>Freshwater Biology</i> , 2017, 62, 1130-1142.	2.4	22
62	Ecological sensitivity of marl lakes to nutrient enrichment: evidence from Hawes Water, UK. <i>Freshwater Biology</i> , 2015, 60, 2226-2247.	2.4	21
63	The history of seabird colonies and the North Water ecosystem: Contributions from palaeoecological and archaeological evidence. <i>Ambio</i> , 2018, 47, 175-192.	5.5	21
64	Heat wave effects on biomass and vegetative growth of macrophytes after long-term adaptation to different temperatures: a mesocosm study. <i>Climate Research</i> , 2015, 66, 265-274.	1.1	21
65	Preface: Shallow lakes in a fast changing world. <i>Hydrobiologia</i> , 2016, 778, 9-11.	2.0	20
66	Eutrophication erodes inter-basin variation in macrophytes and co-occurring invertebrates in a shallow lake: combining ecology and palaeoecology. <i>Journal of Paleolimnology</i> , 2018, 60, 311-328.	1.6	20
67	Contrasting evidence of Holocene ice margin retreat, south-western Greenland. <i>Journal of Quaternary Science</i> , 2017, 32, 604-616.	2.1	19
68	Sedimentary microfossil records reveal ecological change in English lakes: implications for conservation. <i>Journal of Paleolimnology</i> , 2018, 60, 329-348.	1.6	19
69	Effects of warming and nutrients on the microbial food web in shallow lake mesocosms. <i>European Journal of Protistology</i> , 2018, 64, 1-12.	1.5	18
70	Relatedness between contemporary and subfossil cladoceran assemblages in Turkish lakes. <i>Journal of Paleolimnology</i> , 2014, 52, 367-383.	1.6	17
71	Polybrominated diphenyl ethers (PBDEs) in English freshwater lakes, 2008-2012. <i>Chemosphere</i> , 2014, 110, 41-47.	8.2	17
72	Fish determine macroinvertebrate food webs and assemblage structure in Greenland subarctic streams. <i>Freshwater Biology</i> , 2014, 59, 1830-1842.	2.4	17

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73	Environment not dispersal limitation drives clonal composition of Arctic <i>Daphnia</i> in a recently deglaciated area. <i>Molecular Ecology</i> , 2016, 25, 5830-5842.	3.9	17
74	Disturbance from pond management obscures local and regional drivers of assemblages of primary producers. <i>Freshwater Biology</i> , 2014, 59, 1406-1422.	2.4	16
75	The Zambian Macrophyte Trophic Ranking scheme, ZMTR: A new biomonitoring protocol to assess the trophic status of tropical southern African rivers. <i>Aquatic Botany</i> , 2016, 131, 15-27.	1.6	16
76	Greenhouse gas emissions from urban ponds in Denmark. <i>Inland Waters</i> , 2020, 10, 373-385.	2.2	16
77	Towards better integration of ecology in palaeoecology: from proxies to indicators, from inference to understanding. <i>Journal of Paleolimnology</i> , 2018, 60, 109-116.	1.6	15
78	Changes in benthic macroinvertebrate abundance and lake isotope (C, N) signals following biomanipulation: an 18-year study in shallow Lake Vaeng, Denmark. <i>Hydrobiologia</i> , 2012, 686, 135-145.	2.0	14
79	Temperature effects on periphyton, epiphyton and epipelton under a nitrogen pulse in low-nutrient experimental freshwater lakes. <i>Hydrobiologia</i> , 2017, 795, 267-279.	2.0	14
80	Inferring a single variable from an assemblage with multiple controls: getting into deep water with cladoceran lake-depth transfer functions. <i>Hydrobiologia</i> , 2011, 676, 129-142.	2.0	13
81	The coming and going of a marl lake: multi-indicator palaeolimnology reveals abrupt ecological change and alternative views of reference conditions. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	13
82	Impact of Nutrients, Temperatures, and a Heat Wave on Zooplankton Community Structure: An Experimental Approach. <i>Water (Switzerland)</i> , 2020, 12, 3416.	2.7	13
83	Warming and eutrophication interactively drive changes in the methane-oxidizing community of shallow lakes. <i>ISME Communications</i> , 2021, 1, .	4.2	13
84	Are rare species rare or just overlooked? Assessing the distribution of the freshwater bryozoan, <i>Lophopus crystallinus</i> . <i>Biological Conservation</i> , 2007, 135, 223-234.	4.1	11
85	Living in an oasis: Rapid transformations, resilience, and resistance in the North Water Area societies and ecosystems. <i>Ambio</i> , 2018, 47, 296-309.	5.5	11
86	Are nitrous oxide emissions indirectly fueled by input of terrestrial dissolved organic nitrogen in a large eutrophic Lake Taihu, China?. <i>Science of the Total Environment</i> , 2020, 722, 138005.	8.0	11
87	Effects of DOC addition from different sources on phytoplankton community in a temperate eutrophic lake: An experimental study exploring lake compartments. <i>Science of the Total Environment</i> , 2022, 803, 150049.	8.0	11
88	Combined effects of eutrophication and warming on polyunsaturated fatty acids in complex phytoplankton communities: A mesocosm experiment. <i>Science of the Total Environment</i> , 2022, 843, 157001.	8.0	11
89	Ecological Instability in Lakes: A Predictable Condition?. <i>Environmental Science &amp; Technology</i> , 2016, 50, 3285-3286.	10.0	10
90	Inferring past environmental changes in three Turkish lakes from sub-fossil Cladocera. <i>Hydrobiologia</i> , 2016, 778, 295-312.	2.0	10

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91	Effect of a nitrogen pulse on ecosystem N processing at different temperatures: A mesocosm experiment with $^{15}\text{NO}_3^-$ addition. <i>Freshwater Biology</i> , 2017, 62, 1232-1243.	2.4	10
92	Environmental drivers of freshwater macrophyte diversity and community composition in calcareous warmwater rivers of America and Africa. <i>Freshwater Biology</i> , 2017, 62, 1511-1527.	2.4	10
93	Nutrient Loading, Temperature and Heat Wave Effects on Nutrients, Oxygen and Metabolism in Shallow Lake Mesocosms Pre-Adapted for 11 Years. <i>Water (Switzerland)</i> , 2021, 13, 127.	2.7	10
94	Ploidy state of aquatic macrophytes: Global distribution and drivers. <i>Aquatic Botany</i> , 2021, 173, 103417.	1.6	10
95	Quality control in public participation assessments of water quality: the OPAL Water Survey. <i>BMC Ecology</i> , 2016, 16, 14.	3.0	9
96	Consequences of fish for cladoceran, water beetle and macrophyte communities in a farmland pond landscape: implications for conservation. <i>Fundamental and Applied Limnology</i> , 2017, 190, 141-156.	0.7	9
97	Ornamental lakes – an overlooked conservation resource?. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2008, 18, 1046-1051.	2.0	8
98	Connectivity and zebra mussel invasion offer short-term buffering of eutrophication impacts on floodplain lake landscape biodiversity. <i>Diversity and Distributions</i> , 2019, 25, 1334-1347.	4.1	6
99	Submerged macrophytes in Danish lakes: impact of morphological and chemical factors on abundance and species richness. <i>Hydrobiologia</i> , 0, 1.	2.0	5
100	Changes in Phytoplankton Community Composition and Phytoplankton Cell Size in Response to Nitrogen Availability Depend on Temperature. <i>Microorganisms</i> , 2022, 10, 1322.	3.6	5
101	Stable isotope signatures of Holocene syngenetic permafrost trace seabird presence in the Thule District (NW Greenland). <i>Biogeosciences</i> , 2019, 16, 4261-4275.	3.3	4
102	Habitat heterogeneity enables spatial and temporal coexistence of native and invasive macrophytes in shallow lake landscapes. <i>River Research and Applications</i> , 2022, 38, 1387-1399.	1.7	4
103	Seabird-mediated transport of organohalogen compounds to remote sites (North West Greenland) Tj ETQq1 1 0.784314 rgB <sub>4</sub> /Overl 8.0	8.0	4
104	Shallow lake sediments provide evidence for metapopulation dynamics: a pilot study. <i>Aquatic Ecology</i> , 2013, 47, 163-176.	1.5	3