Thomas A. Davidson

List of Publications by Year
in descending order

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	Habitat heterogeneity enables spatial and temporal coexistence of native and invasive macrophytes in shallow lake landscapes. River Research and Applications, 2022, 38, 1387-1399.	1.7	4
2	Effects of DOC addition from different sources on phytoplankton community in a temperate eutrophic lake: An experimental study exploring lake compartments. Science of the Total Environment, 2022, 803, 150049.	8.0	11
3	Feedback between climate change and eutrophication: revisiting the allied attack concept and how to strike back. Inland Waters, 2022, 12, 187-204.	2.2	41
4	Seabird-mediated transport of organohalogen compounds to remote sites (North West Greenland) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.0	4
5	Changes in Phytoplankton Community Composition and Phytoplankton Cell Size in Response to Nitrogen Availability Depend on Temperature. Microorganisms, 2022, 10, 1322.	3.6	5
6	Combined effects of eutrophication and warming on polyunsaturated fatty acids in complex phytoplankton communities: A mesocosm experiment. Science of the Total Environment, 2022, 843, 157001.	8.0	11
7	Nutrient Loading, Temperature and Heat Wave Effects on Nutrients, Oxygen and Metabolism in Shallow Lake Mesocosms Pre-Adapted for 11 Years. Water (Switzerland), 2021, 13, 127.	2.7	10
8	Warming and eutrophication interactively drive changes in the methane-oxidizing community of shallow lakes. ISME Communications, 2021, 1, .	4.2	13
9	Vulnerability of the North Water ecosystem to climate change. Nature Communications, 2021, 12, 4475.	12.8	30
10	Ploidy state of aquatic macrophytes: Global distribution and drivers. Aquatic Botany, 2021, 173, 103417.	1.6	10
11	Impact of Nutrients, Temperatures, and a Heat Wave on Zooplankton Community Structure: An Experimental Approach. Water (Switzerland), 2020, 12, 3416.	2.7	13
12	Phytoplankton Community Response to Nutrients, Temperatures, and a Heat Wave in Shallow Lakes: An Experimental Approach. Water (Switzerland), 2020, 12, 3394.	2.7	29
13	Latitudinal variation in global rangeâ€size of aquatic macrophyte species shows evidence for a Rapoport effect. Freshwater Biology, 2020, 65, 1622-1640.	2.4	24
14	Are nitrous oxide emissions indirectly fueled by input of terrestrial dissolved organic nitrogen in a large eutrophic Lake Taihu, China?. Science of the Total Environment, 2020, 722, 138005.	8.0	11
15	Greenhouse gas emissions from urban ponds in Denmark. Inland Waters, 2020, 10, 373-385.	2.2	16
16	Autochthonous dissolved organic matter potentially fuels methane ebullition from experimental lakes. Water Research, 2019, 166, 115048.	11.3	48
17	World distribution, diversity and endemism of aquatic macrophytes. Aquatic Botany, 2019, 158, 103127.	1.6	93
18	Stable isotope signatures of Holocene syngenetic permafrost trace seabird presence in the Thule District (NW Greenland). Biogeosciences, 2019, 16, 4261-4275.	3.3	4

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19	Connectivity and zebra mussel invasion offer shortâ€term buffering of eutrophication impacts on floodplain lake landscape biodiversity. Diversity and Distributions, 2019, 25, 1334-1347.	4.1	6
20	Synergy between nutrients and warming enhances methane ebullition from experimental lakes. Nature Climate Change, 2018, 8, 156-160.	18.8	130
21	On the crucial importance of a small bird: The ecosystem services of the little auk (Alle alle) population in Northwest Greenland in a long-term perspective. Ambio, 2018, 47, 226-243.	5.5	31
22	Living in an oasis: Rapid transformations, resilience, and resistance in the North Water Area societies and ecosystems. Ambio, 2018, 47, 296-309.	5.5	11
23	Hydrological alterations as the major driver on environmental change in a floodplain Lake Poyang (China): Evidence from monitoring and sediment records. Journal of Great Lakes Research, 2018, 44, 377-387.	1.9	29
24	Effects of warming and nutrients on the microbial food web in shallow lake mesocosms. European Journal of Protistology, 2018, 64, 1-12.	1.5	18
25	The history of seabird colonies and the North Water ecosystem: Contributions from palaeoecological and archaeological evidence. Ambio, 2018, 47, 175-192.	5.5	21
26	Eutrophication erodes inter-basin variation in macrophytes and co-occurring invertebrates in a shallow lake: combining ecology and palaeoecology. Journal of Paleolimnology, 2018, 60, 311-328.	1.6	20
27	Sedimentary macrofossil records reveal ecological change in English lakes: implications for conservation. Journal of Paleolimnology, 2018, 60, 329-348.	1.6	19
28	Paleolimnological records reveal biotic homogenization driven by eutrophication in tropical reservoirs. Journal of Paleolimnology, 2018, 60, 299-309.	1.6	38
29	Predictability of the impact of multiple stressors on the keystone species Daphnia. Scientific Reports, 2018, 8, 17572.	3.3	32
30	Eutrophication homogenizes shallow lake macrophyte assemblages over space and time. Ecosphere, 2018, 9, e02406.	2.2	37
31	How autochthonous dissolved organic matter responds to eutrophication and climate warming: Evidence from a cross-continental data analysis and experiments. Earth-Science Reviews, 2018, 185, 928-937.	9.1	98
32	Response of Submerged Macrophyte Communities to External and Internal Restoration Measures in North Temperate Shallow Lakes. Frontiers in Plant Science, 2018, 9, 194.	3.6	97
33	Towards better integration of ecology in palaeoecology: from proxies to indicators, from inference to understanding. Journal of Paleolimnology, 2018, 60, 109-116.	1.6	15
34	Stable isotope analysis confirms substantial differences between subtropical and temperate shallow lake food webs. Hydrobiologia, 2017, 784, 111-123.	2.0	29
35	Using palaeolimnological data and historical records to assess long-term dynamics of ecosystem services in typical Yangtze shallow lakes (China). Science of the Total Environment, 2017, 584-585, 791-802.	8.0	28
36	Small birds, big effects: the little auk (<i>Alle alle</i>) transforms high Arctic ecosystems. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162572.	2.6	57

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37	Heatâ€wave effects on greenhouse gas emissions from shallow lake mesocosms. Freshwater Biology, 2017, 62, 1130-1142.	2.4	22
38	Effect of a nitrogen pulse on ecosystem N processing at different temperatures: A mesocosm experiment with ¹⁵NO₃^{âˆ’} addition. Freshwater Biology, 2017, 62, 1232-1243.	2.4	10
39	Strong altitudinal control on the response of local glaciers to Holocene climate change in southwest Greenland. Quaternary Science Reviews, 2017, 168, 69-78.	3.0	37
40	Contrasting evidence of Holocene ice margin retreat, southâ€western Greenland. Journal of Quaternary Science, 2017, 32, 604-616.	2.1	19
41	Ecological resilience in lakes and the conjunction fallacy. Nature Ecology and Evolution, 2017, 1, 1616-1624.	7.8	52
42	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. Hydrobiologia, 2017, 800, 99-113.	2.0	28
43	Environmental drivers of freshwater macrophyte diversity and community composition in calcareous warmâ€water rivers of America and Africa. Freshwater Biology, 2017, 62, 1511-1527.	2.4	10
44	Temperature effects on periphyton, epiphyton and epipelon under a nitrogen pulse in low-nutrient experimental freshwater lakes. Hydrobiologia, 2017, 795, 267-279.	2.0	14
45	Recent Sedimentation Rates of Shallow Lakes in the Middle and Lower Reaches of the Yangtze River: Patterns, Controlling Factors and Implications for Lake Management. Water (Switzerland), 2017, 9, 617.	2.7	34
46	Consequences of fish for cladoceran, water beetle and macrophyte communities in a farmland pond landscape: implications for conservation. Fundamental and Applied Limnology, 2017, 190, 141-156.	0.7	9
47	Long-Term Trends and Temporal Synchrony in Plankton Richness, Diversity and Biomass Driven by Re-Oligotrophication and Climate across 17 Danish Lakes. Water (Switzerland), 2016, 8, 427.	2.7	30
48	Environment not dispersal limitation drives clonal composition of Arctic <i>Daphnia</i> in a recently deglaciated area. Molecular Ecology, 2016, 25, 5830-5842.	3.9	17
49	Preface: Shallow lakes in a fast changing world. Hydrobiologia, 2016, 778, 9-11.	2.0	20
50	Consequences of Fish Kills for Long-Term Trophic Structure in Shallow Lakes: Implications for Theory and Restoration. Ecosystems, 2016, 19, 1289-1309.	3.4	25
51	Quality control in public participation assessments of water quality: the OPAL Water Survey. BMC Ecology, 2016, 16, 14.	3.0	9
52	The Zambian Macrophyte Trophic Ranking scheme, ZMTR: A new biomonitoring protocol to assess the trophic status of tropical southern African rivers. Aquatic Botany, 2016, 131, 15-27.	1.6	16
53	Major changes in CO2 efflux when shallow lakes shift from a turbid to a clear water state. Hydrobiologia, 2016, 778, 33-44.	2.0	22
54	Ecological Instability in Lakes: A Predictable Condition?. Environmental Science & Technology, 2016, 50, 3285-3286.	10.0	10

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55	Inferring past environmental changes in three Turkish lakes from sub-fossil Cladocera. Hydrobiologia, 2016, 778, 295-312.	2.0	10
56	Ecological sensitivity of marl lakes to nutrient enrichment: evidence from Hawes Water, UK. Freshwater Biology, 2015, 60, 2226-2247.	2.4	21
57	Harnessing the potential of the multiâ€indicator palaeoecological approach: an assessment of the nature and causes of ecological change in a eutrophic shallow lake. Freshwater Biology, 2015, 60, 1423-1442.	2.4	27
58	Eutrophication effects on greenhouse gas fluxes from shallowâ€lake mesocosms override those of climate warming. Global Change Biology, 2015, 21, 4449-4463.	9.5	132
59	The coming and going of a marl lake: multi-indicator palaeolimnology reveals abrupt ecological change and alternative views of reference conditions. Frontiers in Ecology and Evolution, 2015, 3, .	2.2	13
60	Homogenization of fish assemblages in different lake depth strata at local and regional scales. Freshwater Biology, 2015, 60, 745-757.	2.4	34
61	Rapid evolution of thermal tolerance in the waterÂflea Daphnia. Nature Climate Change, 2015, 5, 665-668.	18.8	230
62	Zooplankton response to climate warming: a mesocosm experiment at contrasting temperatures and nutrient levels. Hydrobiologia, 2015, 742, 185-203.	2.0	45
63	Heat wave effects on biomass and vegetative growth of macrophytes after long-term adaptation to different temperatures: a mesocosm study. Climate Research, 2015, 66, 265-274.	1.1	21
64	Climate change impacts on lakes: an integrated ecological perspective based on a multi-faceted approach, with special focus on shallow lakes. Journal of Limnology, 2014, 73, .	1.1	235
65	Relatedness between contemporary and subfossil cladoceran assemblages in Turkish lakes. Journal of Paleolimnology, 2014, 52, 367-383.	1.6	17
66	Similarity between contemporary vegetation and plant remains in the surface sediment in Mediterranean lakes. Freshwater Biology, 2014, 59, 724-736.	2.4	31
67	Polybrominated diphenyl ethers (PBDEs) in English freshwater lakes, 2008â€“2012. Chemosphere, 2014, 110, 41-47.	8.2	17
68	Big Ben: a new wide-bore piston corer for multi-proxy palaeolimnology. Journal of Paleolimnology, 2014, 51, 79-86.	1.6	24
69	Fish determine macroinvertebrate food webs and assemblage structure in Greenland subarctic streams. Freshwater Biology, 2014, 59, 1830-1842.	2.4	17
70	A framework for testing the ability of models to project climate change and its impacts. Climatic Change, 2014, 122, 271-282.	3.6	104
71	Crossâ€taxon congruence in lake plankton largely independent of environmental gradients. Ecology, 2014, 95, 2778-2788.	3.2	35
72	Disturbance from pond management obscures local and regional drivers of assemblages of primary producers. Freshwater Biology, 2014, 59, 1406-1422.	2.4	16

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73	The role of palaeolimnology in assessing eutrophication and its impact on lakes. Journal of Paleolimnology, 2013, 49, 391-410.	1.6	61
74	Palaeolimnological records of shallow lake biodiversity change: exploring the merits of single versus multi-proxy approaches. Journal of Paleolimnology, 2013, 49, 431-446.	1.6	41
75	Shallow lake sediments provide evidence for metapopulation dynamics: a pilot study. Aquatic Ecology, 2013, 47, 163-176.	1.5	3
76	Biomanipulation as a Restoration Tool to Combat Eutrophication. Advances in Ecological Research, 2012, 47, 411-488.	2.7	211
77	Taxonomic or ecological approaches? Searching for phytoplankton surrogates in the determination of richness and assemblage composition in ponds. Ecological Indicators, 2012, 18, 575-585.	6.3	44
78	Diatom sensitivity to hydrological and nutrient variability in a subtropical, floodâ€pulse wetland. Ecohydrology, 2012, 5, 491-502.	2.4	23
79	Changes in benthic macroinvertebrate abundance and lake isotope (C, N) signals following biomanipulation: an 18-year study in shallow Lake Vaeng, Denmark. Hydrobiologia, 2012, 686, 135-145.	2.0	14
80	Seasonal Dynamics of CO2 Flux Across the Surface of Shallow Temperate Lakes. Ecosystems, 2012, 15, 336-347.	3.4	75
81	Meta-analysis Shows a Consistent and Strong Latitudinal Pattern in Fish Omnivory Across Ecosystems. Ecosystems, 2012, 15, 492-503.	3.4	121
82	Seasonal and spatial hydrological variability drives aquatic biodiversity in a floodâ€pulsed, subâ€tropical wetland. Freshwater Biology, 2012, 57, 1253-1265.	2.4	62
83	The application of palaeolimnology to evidenceâ€based lake management and conservation: examples from UK lakes. Aquatic Conservation: Marine and Freshwater Ecosystems, 2012, 22, 165-180.	2.0	41
84	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). Hydrobiologia, 2011, 676, 279-297.	2.0	292
85	The role of cladocerans in tracking long-term change in shallow lake trophic status. Hydrobiologia, 2011, 676, 299-315.	2.0	45
86	Inferring a single variable from an assemblage with multiple controls: getting into deep water with cladoceran lake-depth transfer functions. Hydrobiologia, 2011, 676, 129-142.	2.0	13
87	Defining reference conditions and restoration targets for lake ecosystems using palaeolimnology: a synthesis. Journal of Paleolimnology, 2011, 45, 533-544.	1.6	153
88	Spatial and Seasonal Variability in Surface Water Chemistry in the Okavango Delta, Botswana: A Multivariate Approach. Wetlands, 2011, 31, 815-829.	1.5	34
89	Assessing aquatic macrophyte community change through the integration of palaeolimnological and historical data at Loch Leven, Scotland. Journal of Paleolimnology, 2010, 43, 191-204.	1.6	51
90	The simultaneous inference of zooplanktivorous fish and macrophyte density from subâ€fossil cladoceran assemblages: a multivariate regression tree approach. Freshwater Biology, 2010, 55, 546-564.	2.4	87

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91	Back to the future: using palaeolimnology to infer longâ€term changes in shallow lake food webs. Freshwater Biology, 2010, 55, 600-613.	2.4	60
92	Ecological influences on larval chironomid communities in shallow lakes: implications for palaeolimnological interpretations. Freshwater Biology, 2010, 55, 531-545.	2.4	103
93	Longâ€term dynamics of submerged macrophytes and algae in a small and shallow, eutrophic lake: implications for the stability of macrophyteâ€dominance. Freshwater Biology, 2010, 55, 565-583.	2.4	157
94	Inferring past zooplanktivorous fish and macrophyte density in a shallow lake: application of a new regression tree model. Freshwater Biology, 2010, 55, 584-599.	2.4	59
95	Combining contemporary ecology and palaeolimnology to understand shallow lake ecosystem change. Freshwater Biology, 2010, 55, 487-499.	2.4	102
96	Seasonal dynamics of macrophytes and phytoplankton in shallow lakes: a eutrophicationâ€driven pathway from plants to plankton?. Freshwater Biology, 2010, 55, 500-513.	2.4	136
97	Current-Use Brominated Flame Retardants in Water, Sediment, and Fish from English Lakes. Environmental Science & Technology, 2009, 43, 9077-9083.	10.0	221
98	Ornamental lakes â€" an overlooked conservation resource?. Aquatic Conservation: Marine and Freshwater Ecosystems, 2008, 18, 1046-1051.	2.0	8
99	Are rare species rare or just overlooked? Assessing the distribution of the freshwater bryozoan, Lophopus crystallinus. Biological Conservation, 2007, 135, 223-234.	4.1	11
100	Are the controls of species composition similar for contemporary and sub-fossil cladoceran assemblages? A study of 39 shallow lakes of contrasting trophic status. Journal of Paleolimnology, 2007, 38, 117-134.	1.6	80
101	Relationships between fish feeding guild and trophic structure in English lowland shallow lakes subject to anthropogenic influence: implications for lake restoration. Aquatic Ecology, 2006, 40, 391-405.	1.5	34
102	A 250 year comparison of historical, macrofossil and pollen records of aquatic plants in a shallow lake. Freshwater Biology, 2005, 50, 1671-1686.	2.4	102
103	Representation of fish communities by scale sub-fossils in shallow lakes: implications for inferring percidâ€"cyprinid shifts. Journal of Paleolimnology, 2003, 30, 441-449.	1.6	31
104	Submerged macrophytes in Danish lakes: impact of morphological and chemical factors on abundance and species richness. Hydrobiologia, 0, , 1.	2.0	5