Michael T Brett

List of Publications by Year
in descending order

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93 papers	7,239 citations	61984 43 h-index	56724 83 g-index
93 all docs	93 docs citations	93 times ranked	5742 citing authors

#	Article	IF	Citations
1	The role of highly unsaturated fatty acids in aquatic foodweb processes. Freshwater Biology, 1997, 38, 483-499.	2.4	806
2	A highly unsaturated fatty acid predicts carbon transfer between primary producers and consumers. Nature, 2000, 403, 74-77.	27.8	659
3	Lipid composition and food quality of some freshwater phytoplankton for cladoceran zooplankters. Journal of Plankton Research, 1990, 12, 809-818.	1.8	398
4	Phytoplankton, not allochthonous carbon, sustains herbivorous zooplankton production. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21197-21201.	7.1	323
5	Diet tracing in ecology: Method comparison and selection. Methods in Ecology and Evolution, 2018, 9, 278-291.	5.2	320
6	Unsaturated fatty acid content in seston and tropho-dynamic coupling in lakes. Nature, 2004, 427, 69-72.	27.8	264
7	How important are terrestrial organic carbon inputs for secondary production in freshwater ecosystems?. Freshwater Biology, 2017, 62, 833-853.	2.4	257
8	Daphnia fatty acid composition reflects that of their diet. Limnology and Oceanography, 2006, 51, 2428-2437.	3.1	222
9	Eutrophication model for Lake Washington (USA). Ecological Modelling, 2005, 187, 140-178.	2.5	171
10	When is a correlation between non-independent variables â€œspuriousâ€?. Oikos, 2004, 105, 647-656.	2.7	165
11	Dietâ€switching experiments show rapid accumulation and preferential retention of highly unsaturated fatty acids in Daphnia. Oikos, 2011, 120, 1674-1682.	2.7	131
12	Empirical analysis of the effect of phosphorus limitation on algal food quality for freshwater zooplankton. Limnology and Oceanography, 2000, 45, 1564-1575.	3.1	129
13	Non-Point-Source Impacts on Stream Nutrient Concentrations Along a Forest to Urban Gradient. Environmental Management, 2005, 35, 330-342.	2.7	126
14	Crustacean zooplankton fatty acid composition. , 2009, , 115-146.		125
15	Particulate phosphorus bioavailability as a function of stream flow and land cover. Water Research, 2006, 40, 1258-1268.	11.3	120
16	Food quantity and quality regulation of trophic transfer between primary producers and a keystone grazer (Daphnia) in pelagic freshwater food webs. Oikos, 2007, 116, 1152-1163.	2.7	117
17	A test of the role of polyunsaturated fatty acids in phytoplankton food quality for Daphnia using liposome supplementation. Limnology and Oceanography, 2003, 48, 1938-1947.	3.1	108
18	FATTY ACID SIGNATURES DIFFERENTIATE MARINE MACROPHYTES AT ORDINAL AND FAMILY RANKS¹. Journal of Phycology, 2012, 48, 956-965.	2.3	103

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19	Differing Daphnia magna assimilation efficiencies for terrestrial, bacterial, and algal carbon and fatty acids. Ecology, 2014, 95, 563-576.	3.2	100
20	Patterns and mechanisms of phytoplankton variability in Lake Washington (USA). Water Research, 2004, 38, 4013-4027.	11.3	98
21	Effects of climatic variability on the thermal properties of Lake Washington. Limnology and Oceanography, 2004, 49, 256-270.	3.1	94
22	The effects of seston lipids on zooplankton fatty acid composition in Lake Washington, Washington, USA. Ecology, 2010, 91, 180-190.	3.2	91
23	Zooplankton communities and acidification processes (a review). Water, Air, and Soil Pollution, 1989, 44, 387-414.	2.4	90
24	Phytoplankton essential fatty acid and phosphorus content constraints on Daphnia somatic growth and reproduction. Limnology and Oceanography, 2006, 51, 2438-2452.	3.1	87
25	The influence of dissolved phosphorus molecular form on recalcitrance and bioavailability. Environmental Pollution, 2013, 182, 37-44.	7.5	83
26	Eutrophication model for Lake Washington (USA). Ecological Modelling, 2005, 187, 179-200.	2.5	82
27	Selective transfer of polyunsaturated fatty acids from phytoplankton to planktivorous fish in large boreal lakes. Science of the Total Environment, 2015, 536, 858-865.	8.0	79
28	Dietâ€specific biomarkers show that highâ€quality phytoplankton fuels herbivorous zooplankton in large boreal lakes. Freshwater Biology, 2014, 59, 1902-1915.	2.4	78
29	The influence of bacteria-dominated diets on Daphnia magna somatic growth, reproduction, and lipid composition. FEMS Microbiology Ecology, 2012, 82, 50-62.	2.7	75
30	Essential fatty acid content and the phosphorus to carbon ratio in cultured algae as indicators of food quality forDaphnia. Freshwater Biology, 2002, 47, 1377-1390.	2.4	74
31	A comparison of the trophic transfer of fatty acids in freshwater plankton by cladocerans and calanoid copepods. Freshwater Biology, 2011, 56, 889-903.	2.4	74
32	Differential effects of zooplankton species on ciliate community structure. Limnology and Oceanography, 1994, 39, 486-492.	3.1	68
33	A review and reassessment of lake phosphorus retention and the nutrient loading concept. Freshwater Biology, 2008, 53, 194-211.	2.4	63
34	A Fatty Acid Based Bayesian Approach for Inferring Diet in Aquatic Consumers. PLoS ONE, 2015, 10, e0129723.	2.5	60
35	The importance of dietary phosphorus and highly unsaturated fatty acids for sockeye (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Ove Aquatic Sciences, 2003, 60, 12-22.	1.4	59
36	Polyunsaturated fatty acids in stream food webs â€“ high dissimilarity among producers and consumers. Freshwater Biology, 2017, 62, 1325-1334.	2.4	58

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37	Feeding strategies for the acquisition of highâ€quality food sources in stream macroinvertebrates: Collecting, integrating, and mixed feeding. Limnology and Oceanography, 2018, 63, 1964-1978.	3.1	58
38	Chaoborus and fish-mediated influences on Daphnia longispina population structure, dynamics and life history strategies. Oecologia, 1992, 89, 69-77.	2.0	51
39	Effects of Food Web Compensation After Manipulation of Rainbow Trout in an Oligotrophic Lake. Ecology, 1995, 76, 52-69.	3.2	51
40	Phytoplankton food quality control of planktonic food web processes. Hydrobiologia, 2007, 589, 29-41.	2.0	51
41	Differential growth rates of three cladoceran species in response to mono- and mixed-algal cultures. Limnology and Oceanography, 1991, 36, 159-165.	3.1	49
42	Mass Flux Calculations Show Strong Allochthonous Support of Freshwater Zooplankton Production Is Unlikely. PLoS ONE, 2012, 7, e39508.	2.5	46
43	Comment on â€œPossibility of N or P limitation for planktonic cladocerans: An experimental testâ€•(Urabe) Tj ETQq1 1 0.784314 rgB Oceanography, 1993, 38, 1333-1337.	3.1	45
44	Resource quality effects on Daphnia longispina offspring fitness. Journal of Plankton Research, 1993, 15, 403-412.	1.8	44
45	A low Ï‰-3:Ï‰-6 ratio in Daphnia indicates terrestrial resource utilization and poor nutritional condition. Journal of Plankton Research, 2015, 37, 596-610.	1.8	42
46	Inferring Phytoplankton, Terrestrial Plant and Bacteria Bulk Î´Â¹Â³C Values from Compound Specific Analyses of Lipids and Fatty Acids. PLoS ONE, 2015, 10, e0133974.	2.5	39
47	The impact of alum based advanced nutrient removal processes on phosphorus bioavailability. Water Research, 2012, 46, 837-844.	11.3	37
48	Polyunsaturated fatty acids in fish tissues more closely resemble algal than terrestrial diet sources. Hydrobiologia, 2021, 848, 371-383.	2.0	35
49	Preferential retention of algal carbon in benthic invertebrates: Stable isotope and fatty acid evidence from an outdoor flume experiment. Freshwater Biology, 2020, 65, 1200-1209.	2.4	34
50	Nutrient control of bacterioplankton and phytoplankton dynamics. Aquatic Ecology, 1999, 33, 135-145.	1.5	33
51	Climatic forcing and primary productivity in a subalpine lake: Interannual variability as a natural experiment. Limnology and Oceanography, 2004, 49, 614-619.	3.1	32
52	A revaluation of lakeâ€phosphorus loading models using a Bayesian hierarchical framework. Ecological Research, 2010, 25, 59-76.	1.5	32
53	Modelling the role of highly unsaturated fatty acids in planktonic food web processes: a mechanistic approach. Environmental Reviews, 2012, 20, 155-172.	4.5	32
54	Lake zooplankton Î´¹³C values are strongly correlated with theÂÎ´¹³C values of distinct phytoplankton taxa. Ecosphere, 2016, 7, e01392.	2.2	30

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55	Threshold dietary polyunsaturated fatty acid concentrations for Daphnia pulex growth and reproduction. Inland Waters, 2012, 2, 199-209.	2.2	27
56	A Daily Time Series Analysis of StreamWater Phosphorus Concentrations Along an Urban to Forest Gradient. Environmental Management, 2005, 35, 56-71.	2.7	25
57	Retroconversion of Docosapentaenoic Acid (nâ€6): an Alternative Pathway for Biosynthesis of Arachidonic Acid in Daphnia magna. Lipids, 2014, 49, 591-595.	1.7	25
58	Seston food quality and Daphnia production efficiencies in an oligo-mesotrophic Subalpine Lake. Aquatic Ecology, 2003, 37, 123-136.	1.5	24
59	Evaluating coral trophic strategies using fatty acid composition and indices. PLoS ONE, 2019, 14, e0222327.	2.5	24
60	Modelling the role of highly unsaturated fatty acids in planktonic food web processes: Sensitivity analysis and examination of contemporary hypotheses. Ecological Informatics, 2013, 13, 77-98.	5.2	23
61	Dissolved organic nitrogen recalcitrance and bioavailable nitrogen quantification for effluents from advanced nitrogen removal wastewater treatment facilities. Environmental Pollution, 2017, 229, 255-263.	7.5	23
62	The bioavailability of different dissolved organic nitrogen compounds for the freshwater algae Raphidocelis subcapitata. Science of the Total Environment, 2018, 618, 479-486.	8.0	22
63	Modeling zooplankton growth in Lake Washington: A mechanistic approach to physiology in a eutrophication model. Ecological Modelling, 2013, 258, 101-121.	2.5	20
64	Terrestrial organic matter quantity or decomposition state does not compensate for its poor nutritional quality for Daphnia. Freshwater Biology, 2019, 64, 1769-1786.	2.4	20
65	The influence of watershed characteristics on nitrogen export to and marine fate in Hood Canal, Washington, USA. Biogeochemistry, 2011, 106, 415-433.	3.5	19
66	Geomorphology controls the trophic base of stream food webs in a boreal watershed. Ecology, 2015, 96, 1775-1782.	3.2	18
67	An assessment of assumptions and uncertainty in deuteriumâ€based estimates of terrestrial subsidies to aquatic consumers. Ecology, 2018, 99, 1073-1088.	3.2	18
68	The effects of planktivorous fish (golden shiners) on the ciliate community of a mesotrophic lake. Journal of Plankton Research, 1997, 19, 1815-1828.	1.8	17
69	Short-term effects of a buffered alum treatment on Green Lake sediment phosphorus speciation. Lake and Reservoir Management, 2008, 24, 181-189.	1.3	17
70	Longitudinal variation in the nutritional quality of basal food sources and its effect on invertebrates and fish in subalpine rivers. Journal of Animal Ecology, 2021, 90, 2678-2691.	2.8	17
71	Scientists Raise Alarms about Fast Tracking of Transoceanic Canal through Nicaragua. Environmental Science & Technology, 2015, 49, 3989-3996.	10.0	15
72	Quantifying learning in biotracer studies. Oecologia, 2018, 187, 597-608.	2.0	15

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73	How Well Does the Mechanistic Water Quality Model CEâ€QUALâ€W2 Represent Biogeochemical Responses to Climatic and Hydrologic Forcing?. Water Resources Research, 2018, 54, 6609-6624.	4.2	15
74	Fatty acids as dietary biomarkers in mangrove ecosystems: Current status and future perspective. Science of the Total Environment, 2020, 739, 139907.	8.0	14
75	Basal resources of river food webs largely affect the fatty acid composition of freshwater fish. Science of the Total Environment, 2022, 812, 152450.	8.0	14
76	An experimental test of the egg-ratio method: estimated versus observed death rates. Freshwater Biology, 1992, 28, 237-248.	2.4	12
77	Critical Uncertainties and Gaps in the Environmental- and Social-Impact Assessment of the Proposed Interoceanic Canal through Nicaragua. BioScience, 2016, 66, 632-645.	4.9	12
78	The importance of the wind-drag coefficient parameterization for hydrodynamic modeling of a large shallow lake. Ecological Informatics, 2020, 59, 101106.	5.2	11
79	Comment: Trout Mortality from Baited Barbed and Barbless Hooks. North American Journal of Fisheries Management, 1997, 17, 807-807.	1.0	10
80	The modeled and observed response of Lake Spokane hypolimnetic dissolved oxygen concentrations to phosphorus inputs. Lake and Reservoir Management, 2016, 32, 246-258.	1.3	9
81	The ultimate peanut butter on crackers for Hyalella: diatoms on macrophytes rather than bacteria and fungi on conditioned terrestrial leaf litter. Freshwater Biology, 2021, 66, 599-614.	2.4	9
82	Taxonomic, Temporal, and Spatial Variations in Zooplankton Fatty Acid Composition in Puget Sound, WA, USA. Estuaries and Coasts, 2022, 45, 567-581.	2.2	9
83	Impact of a major soil fumigant spill on the planktonic ecosystem of Shasta Lake, California. Canadian Journal of Fisheries and Aquatic Sciences, 1995, 52, 1247-1256.	1.4	8
84	Is a low EPA growth saturation threshold supported by the data presented in Becker and Boersma (2005)?. Limnology and Oceanography, 2010, 55, 455-458.	3.1	8
85	The dark side of rocks: An underestimated highâ€quality food resource in river ecosystems. Journal of Ecology, 2021, 109, 2395-2404.	4.0	8
86	Are phytoplankton in northern Swedish lakes extremely ¹³C depleted?. Limnology and Oceanography, 2014, 59, 1795-1799.	3.1	7
87	Characterization of the dissolved phosphorus uptake kinetics for the effluents from advanced nutrient removal processes. Water Research, 2015, 84, 181-189.	11.3	6
88	Thermal constraints on stream consumer responses to a marine resource subsidy. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1661-1671.	1.4	6
89	Physiological and nutritional constraints on zooplankton productivity due to eutrophication and climate change predicted using a resource-based modeling approach. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 472-486.	1.4	6
90	Cryptic Constituents: The Paradox of High Fluxâ€“Low Concentration Components of Aquatic Ecosystems. Water (Switzerland), 2021, 13, 2301.	2.7	3

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91	Modeling the dissolved oxygen response to phosphorus inputs in Lake Spokane: the fallacy of using complex over-parameterized models as the basis for TMDL decisions. Lake and Reservoir Management, 2016, 32, 280-287.	1.3	2
92	The influence of alum based nutrient removal process on the physical, chemical and biological characteristics of phosphorus in the paper processing facility effluent. Science of the Total Environment, 2020, 721, 137724.	8.0	2
93	AUTOCHTHONOUS AND AUTOCHTHONOUS CONTRIBUTION TO CONSUMERS: EMERGING ISSUES WORKSHOP REPORT. Limnology and Oceanography Bulletin, 2011, 20, 34-36.	0.4	1