

Michael T Brett

List of Publications by Year in descending order

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93
papers

7,239
citations

61857

43
h-index

56606

83
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93
docs citations

93
times ranked

5742
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of highly unsaturated fatty acids in aquatic foodweb processes. <i>Freshwater Biology</i> , 1997, 38, 483-499.	1.2	806
2	A highly unsaturated fatty acid predicts carbon transfer between primary producers and consumers. <i>Nature</i> , 2000, 403, 74-77.	13.7	659
3	Lipid composition and food quality of some freshwater phytoplankton for cladoceran zooplankters. <i>Journal of Plankton Research</i> , 1990, 12, 809-818.	0.8	398
4	Phytoplankton, not allochthonous carbon, sustains herbivorous zooplankton production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21197-21201.	3.3	323
5	Diet tracing in ecology: Method comparison and selection. <i>Methods in Ecology and Evolution</i> , 2018, 9, 278-291.	2.2	320
6	Unsaturated fatty acid content in seston and tropho-dynamic coupling in lakes. <i>Nature</i> , 2004, 427, 69-72.	13.7	264
7	How important are terrestrial organic carbon inputs for secondary production in freshwater ecosystems?. <i>Freshwater Biology</i> , 2017, 62, 833-853.	1.2	257
8	<i>Daphnia</i> fatty acid composition reflects that of their diet. <i>Limnology and Oceanography</i> , 2006, 51, 2428-2437.	1.6	222
9	Eutrophication model for Lake Washington (USA). <i>Ecological Modelling</i> , 2005, 187, 140-178.	1.2	171
10	When is a correlation between non-independent variables "spurious"? <i>Oikos</i> , 2004, 105, 647-656.	1.2	165
11	Diet-switching experiments show rapid accumulation and preferential retention of highly unsaturated fatty acids in <i>Daphnia</i> . <i>Oikos</i> , 2011, 120, 1674-1682.	1.2	131
12	Empirical analysis of the effect of phosphorus limitation on algal food quality for freshwater zooplankton. <i>Limnology and Oceanography</i> , 2000, 45, 1564-1575.	1.6	129
13	Non-Point-Source Impacts on Stream Nutrient Concentrations Along a Forest to Urban Gradient. <i>Environmental Management</i> , 2005, 35, 330-342.	1.2	126
14	Crustacean zooplankton fatty acid composition. , 2009, , 115-146.		125
15	Particulate phosphorus bioavailability as a function of stream flow and land cover. <i>Water Research</i> , 2006, 40, 1258-1268.	5.3	120
16	Food quantity and quality regulation of trophic transfer between primary producers and a keystone grazer (<i>Daphnia</i>) in pelagic freshwater food webs. <i>Oikos</i> , 2007, 116, 1152-1163.	1.2	117
17	A test of the role of polyunsaturated fatty acids in phytoplankton food quality for <i>Daphnia</i> using liposome supplementation. <i>Limnology and Oceanography</i> , 2003, 48, 1938-1947.	1.6	108
18	FATTY ACID SIGNATURES DIFFERENTIATE MARINE MACROPHYTES AT ORDINAL AND FAMILY RANKS ¹ . <i>Journal of Phycology</i> , 2012, 48, 956-965.	1.0	103

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19	Differing <i>Daphnia magna</i> assimilation efficiencies for terrestrial, bacterial, and algal carbon and fatty acids. <i>Ecology</i> , 2014, 95, 563-576.	1.5	100
20	Patterns and mechanisms of phytoplankton variability in Lake Washington (USA). <i>Water Research</i> , 2004, 38, 4013-4027.	5.3	98
21	Effects of climatic variability on the thermal properties of Lake Washington. <i>Limnology and Oceanography</i> , 2004, 49, 256-270.	1.6	94
22	The effects of seston lipids on zooplankton fatty acid composition in Lake Washington, Washington, USA. <i>Ecology</i> , 2010, 91, 180-190.	1.5	91
23	Zooplankton communities and acidification processes (a review). <i>Water, Air, and Soil Pollution</i> , 1989, 44, 387-414.	1.1	90
24	Phytoplankton essential fatty acid and phosphorus content constraints on <i>Daphnia</i> somatic growth and reproduction. <i>Limnology and Oceanography</i> , 2006, 51, 2438-2452.	1.6	87
25	The influence of dissolved phosphorus molecular form on recalcitrance and bioavailability. <i>Environmental Pollution</i> , 2013, 182, 37-44.	3.7	83
26	Eutrophication model for Lake Washington (USA). <i>Ecological Modelling</i> , 2005, 187, 179-200.	1.2	82
27	Selective transfer of polyunsaturated fatty acids from phytoplankton to planktivorous fish in large boreal lakes. <i>Science of the Total Environment</i> , 2015, 536, 858-865.	3.9	79
28	Diet-specific biomarkers show that high-quality phytoplankton fuels herbivorous zooplankton in large boreal lakes. <i>Freshwater Biology</i> , 2014, 59, 1902-1915.	1.2	78
29	The influence of bacteria-dominated diets on <i>Daphnia magna</i> somatic growth, reproduction, and lipid composition. <i>FEMS Microbiology Ecology</i> , 2012, 82, 50-62.	1.3	75
30	Essential fatty acid content and the phosphorus to carbon ratio in cultured algae as indicators of food quality for <i>Daphnia</i> . <i>Freshwater Biology</i> , 2002, 47, 1377-1390.	1.2	74
31	A comparison of the trophic transfer of fatty acids in freshwater plankton by cladocerans and calanoid copepods. <i>Freshwater Biology</i> , 2011, 56, 889-903.	1.2	74
32	Differential effects of zooplankton species on ciliate community structure. <i>Limnology and Oceanography</i> , 1994, 39, 486-492.	1.6	68
33	A review and reassessment of lake phosphorus retention and the nutrient loading concept. <i>Freshwater Biology</i> , 2008, 53, 194-211.	1.2	63
34	A Fatty Acid Based Bayesian Approach for Inferring Diet in Aquatic Consumers. <i>PLoS ONE</i> , 2015, 10, e0129723.	1.1	60
35	The importance of dietary phosphorus and highly unsaturated fatty acids for sockeye (<i>Oncorhynchus</i>) Tj ETQq1 1 0.784314 rgBT /Overl <i>Aquatic Sciences</i> , 2003, 60, 12-22.	0.7	59
36	Polyunsaturated fatty acids in stream food webs – high dissimilarity among producers and consumers. <i>Freshwater Biology</i> , 2017, 62, 1325-1334.	1.2	58

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37	Feeding strategies for the acquisition of high-quality food sources in stream macroinvertebrates: Collecting, integrating, and mixed feeding. <i>Limnology and Oceanography</i> , 2018, 63, 1964-1978.	1.6	58
38	Chaoborus and fish-mediated influences on <i>Daphnia longispina</i> population structure, dynamics and life history strategies. <i>Oecologia</i> , 1992, 89, 69-77.	0.9	51
39	Effects of Food Web Compensation After Manipulation of Rainbow Trout in an Oligotrophic Lake. <i>Ecology</i> , 1995, 76, 52-69.	1.5	51
40	Phytoplankton food quality control of planktonic food web processes. <i>Hydrobiologia</i> , 2007, 589, 29-41.	1.0	51
41	Differential growth rates of three cladoceran species in response to mono- and mixed-algal cultures. <i>Limnology and Oceanography</i> , 1991, 36, 159-165.	1.6	49
42	Mass Flux Calculations Show Strong Allochthonous Support of Freshwater Zooplankton Production Is Unlikely. <i>PLoS ONE</i> , 2012, 7, e39508.	1.1	46
43	Comment on "Possibility of N or P limitation for planktonic cladocerans: An experimental test" (Urabe) <i>Tj ETQq1 1 0.784314 rgB / Oceanography</i> , 1993, 38, 1333-1337.	1.6	45
44	Resource quality effects on <i>Daphnia longispina</i> offspring fitness. <i>Journal of Plankton Research</i> , 1993, 15, 403-412.	0.8	44
45	A low $\delta^{13}\text{C}$ ratio in <i>Daphnia</i> indicates terrestrial resource utilization and poor nutritional condition. <i>Journal of Plankton Research</i> , 2015, 37, 596-610.	0.8	42
46	Inferring Phytoplankton, Terrestrial Plant and Bacteria Bulk $\delta^{13}\text{C}$ Values from Compound Specific Analyses of Lipids and Fatty Acids. <i>PLoS ONE</i> , 2015, 10, e0133974.	1.1	39
47	The impact of alum based advanced nutrient removal processes on phosphorus bioavailability. <i>Water Research</i> , 2012, 46, 837-844.	5.3	37
48	Polyunsaturated fatty acids in fish tissues more closely resemble algal than terrestrial diet sources. <i>Hydrobiologia</i> , 2021, 848, 371-383.	1.0	35
49	Preferential retention of algal carbon in benthic invertebrates: Stable isotope and fatty acid evidence from an outdoor flume experiment. <i>Freshwater Biology</i> , 2020, 65, 1200-1209.	1.2	34
50	Nutrient control of bacterioplankton and phytoplankton dynamics. <i>Aquatic Ecology</i> , 1999, 33, 135-145.	0.7	33
51	Climatic forcing and primary productivity in a subalpine lake: Interannual variability as a natural experiment. <i>Limnology and Oceanography</i> , 2004, 49, 614-619.	1.6	32
52	A reevaluation of lake phosphorus loading models using a Bayesian hierarchical framework. <i>Ecological Research</i> , 2010, 25, 59-76.	0.7	32
53	Modelling the role of highly unsaturated fatty acids in planktonic food web processes: a mechanistic approach. <i>Environmental Reviews</i> , 2012, 20, 155-172.	2.1	32
54	Lake zooplankton $\delta^{13}\text{C}$ values are strongly correlated with the $\delta^{13}\text{C}$ values of distinct phytoplankton taxa. <i>Ecosphere</i> , 2016, 7, e01392.	1.0	30

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55	Threshold dietary polyunsaturated fatty acid concentrations for <i>Daphnia pulex</i> growth and reproduction. <i>Inland Waters</i> , 2012, 2, 199-209.	1.1	27
56	A Daily Time Series Analysis of StreamWater Phosphorus Concentrations Along an Urban to Forest Gradient. <i>Environmental Management</i> , 2005, 35, 56-71.	1.2	25
57	Retroconversion of Docosapentaenoic Acid (ω 6): an Alternative Pathway for Biosynthesis of Arachidonic Acid in <i>Daphnia magna</i> . <i>Lipids</i> , 2014, 49, 591-595.	0.7	25
58	Seston food quality and <i>Daphnia</i> production efficiencies in an oligo-mesotrophic Subalpine Lake. <i>Aquatic Ecology</i> , 2003, 37, 123-136.	0.7	24
59	Evaluating coral trophic strategies using fatty acid composition and indices. <i>PLoS ONE</i> , 2019, 14, e0222327.	1.1	24
60	Modelling the role of highly unsaturated fatty acids in planktonic food web processes: Sensitivity analysis and examination of contemporary hypotheses. <i>Ecological Informatics</i> , 2013, 13, 77-98.	2.3	23
61	Dissolved organic nitrogen recalcitrance and bioavailable nitrogen quantification for effluents from advanced nitrogen removal wastewater treatment facilities. <i>Environmental Pollution</i> , 2017, 229, 255-263.	3.7	23
62	The bioavailability of different dissolved organic nitrogen compounds for the freshwater algae <i>Raphidocelis subcapitata</i> . <i>Science of the Total Environment</i> , 2018, 618, 479-486.	3.9	22
63	Modeling zooplankton growth in Lake Washington: A mechanistic approach to physiology in a eutrophication model. <i>Ecological Modelling</i> , 2013, 258, 101-121.	1.2	20
64	Terrestrial organic matter quantity or decomposition state does not compensate for its poor nutritional quality for <i>Daphnia</i> . <i>Freshwater Biology</i> , 2019, 64, 1769-1786.	1.2	20
65	The influence of watershed characteristics on nitrogen export to and marine fate in Hood Canal, Washington, USA. <i>Biogeochemistry</i> , 2011, 106, 415-433.	1.7	19
66	Geomorphology controls the trophic base of stream food webs in a boreal watershed. <i>Ecology</i> , 2015, 96, 1775-1782.	1.5	18
67	An assessment of assumptions and uncertainty in deuterium-based estimates of terrestrial subsidies to aquatic consumers. <i>Ecology</i> , 2018, 99, 1073-1088.	1.5	18
68	The effects of planktivorous fish (golden shiners) on the ciliate community of a mesotrophic lake. <i>Journal of Plankton Research</i> , 1997, 19, 1815-1828.	0.8	17
69	Short-term effects of a buffered alum treatment on Green Lake sediment phosphorus speciation. <i>Lake and Reservoir Management</i> , 2008, 24, 181-189.	0.4	17
70	Longitudinal variation in the nutritional quality of basal food sources and its effect on invertebrates and fish in subalpine rivers. <i>Journal of Animal Ecology</i> , 2021, 90, 2678-2691.	1.3	17
71	Scientists Raise Alarms about Fast Tracking of Transoceanic Canal through Nicaragua. <i>Environmental Science & Technology</i> , 2015, 49, 3989-3996.	4.6	15
72	Quantifying learning in biotracer studies. <i>Oecologia</i> , 2018, 187, 597-608.	0.9	15

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73	How Well Does the Mechanistic Water Quality Model CEQUAL-W2 Represent Biogeochemical Responses to Climatic and Hydrologic Forcing?. <i>Water Resources Research</i> , 2018, 54, 6609-6624.	1.7	15
74	Fatty acids as dietary biomarkers in mangrove ecosystems: Current status and future perspective. <i>Science of the Total Environment</i> , 2020, 739, 139907.	3.9	14
75	Basal resources of river food webs largely affect the fatty acid composition of freshwater fish. <i>Science of the Total Environment</i> , 2022, 812, 152450.	3.9	14
76	An experimental test of the egg-ratio method: estimated versus observed death rates. <i>Freshwater Biology</i> , 1992, 28, 237-248.	1.2	12
77	Critical Uncertainties and Gaps in the Environmental- and Social-Impact Assessment of the Proposed Interoceanic Canal through Nicaragua. <i>BioScience</i> , 2016, 66, 632-645.	2.2	12
78	The importance of the wind-drag coefficient parameterization for hydrodynamic modeling of a large shallow lake. <i>Ecological Informatics</i> , 2020, 59, 101106.	2.3	11
79	Comment: Trout Mortality from Baited Barbed and Barbless Hooks. <i>North American Journal of Fisheries Management</i> , 1997, 17, 807-807.	0.5	10
80	The modeled and observed response of Lake Spokane hypolimnetic dissolved oxygen concentrations to phosphorus inputs. <i>Lake and Reservoir Management</i> , 2016, 32, 246-258.	0.4	9
81	The ultimate peanut butter on crackers for <i>Hyalella</i> : diatoms on macrophytes rather than bacteria and fungi on conditioned terrestrial leaf litter. <i>Freshwater Biology</i> , 2021, 66, 599-614.	1.2	9
82	Taxonomic, Temporal, and Spatial Variations in Zooplankton Fatty Acid Composition in Puget Sound, WA, USA. <i>Estuaries and Coasts</i> , 2022, 45, 567-581.	1.0	9
83	Impact of a major soil fumigant spill on the planktonic ecosystem of Shasta Lake, California. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1995, 52, 1247-1256.	0.7	8
84	Is a low EPA growth saturation threshold supported by the data presented in Becker and Boersma (2005)?. <i>Limnology and Oceanography</i> , 2010, 55, 455-458.	1.6	8
85	The dark side of rocks: An underestimated high-quality food resource in river ecosystems. <i>Journal of Ecology</i> , 2021, 109, 2395-2404.	1.9	8
86	Are phytoplankton in northern Swedish lakes extremely ¹³ C depleted?. <i>Limnology and Oceanography</i> , 2014, 59, 1795-1799.	1.6	7
87	Characterization of the dissolved phosphorus uptake kinetics for the effluents from advanced nutrient removal processes. <i>Water Research</i> , 2015, 84, 181-189.	5.3	6
88	Thermal constraints on stream consumer responses to a marine resource subsidy. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 1661-1671.	0.7	6
89	Physiological and nutritional constraints on zooplankton productivity due to eutrophication and climate change predicted using a resource-based modeling approach. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2022, 79, 472-486.	0.7	6
90	Cryptic Constituents: The Paradox of High Flux/Low Concentration Components of Aquatic Ecosystems. <i>Water (Switzerland)</i> , 2021, 13, 2301.	1.2	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. <i>Lake and Reservoir Management</i> , 2016, 32, 280-287.	0.4	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. <i>Science of the Total Environment</i> , 2020, 721, 137724.	3.9	2
93	AUTOCHTHONOUS AND AUTOCHTHONOUS CONTRIBUTION TO CONSUMERS: EMERGING ISSUES WORKSHOP REPORT. <i>Limnology and Oceanography Bulletin</i> , 2011, 20, 34-36.	0.2	1