

Blake Matthews

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

5,638
citations

101543

36
h-index

88630

70
g-index

88
all docs

88
docs citations

88
times ranked

8119
citing authors

#	ARTICLE	IF	CITATIONS
1	Fit and fatty freshwater fish: contrasting polyunsaturated fatty acid phenotypes between hybridizing stickleback lineages. <i>Oikos</i> , 2022, 2022, .	2.7	4
2	An integrative paleolimnological approach for studying evolutionary processes. <i>Trends in Ecology and Evolution</i> , 2022, 37, 488-496.	8.7	8
3	Climate change shifts the timing of nutritional flux from aquatic insects. <i>Current Biology</i> , 2022, 32, 1342-1349.e3.	3.9	33
4	The influence of predator community composition on photoprotective traits of copepods. <i>Ecology and Evolution</i> , 2022, 12, e8862.	1.9	3
5	Climate change creates nutritional phenological mismatches. <i>Trends in Ecology and Evolution</i> , 2022, 37, 736-739.	8.7	14
6	Threespine Stickleback in Lake Constance: The Ecology and Genomic Substrate of a Recent Invasion. <i>Frontiers in Ecology and Evolution</i> , 2021, 8, .	2.2	19
7	Dietary-based developmental plasticity affects juvenile survival in an aquatic detritivore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20203136.	2.6	9
8	Non-additive effects of foundation species determine the response of aquatic ecosystems to nutrient perturbation. <i>Ecology</i> , 2021, 102, e03371.	3.2	6
9	The evolutionary ecology of fatty acid variation: Implications for consumer adaptation and diversification. <i>Ecology Letters</i> , 2021, 24, 1709-1731.	6.4	53
10	Adaptive Evolution Can Both Prevent Ecosystem Collapse and Delay Ecosystem Recovery. <i>American Naturalist</i> , 2021, 198, E185-E197.	2.1	9
11	The value of human data annotation for machine learning based anomaly detection in environmental systems. <i>Water Research</i> , 2021, 206, 117695.	11.3	14
12	On the evolution of trophic position. <i>Ecology Letters</i> , 2021, 24, 2549-2562.	6.4	11
13	Submerged macrophytes affect the temporal variability of aquatic ecosystems. <i>Freshwater Biology</i> , 2021, 66, 421-435.	2.4	11
14	Building on 150 Years of Knowledge: The Freshwater Isopod <i>Asellus aquaticus</i> as an Integrative Eco-Evolutionary Model System. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	10
15	Phosphorus limitation does not drive loss of bony lateral plates in freshwater stickleback (<i>Gasterosteus aculeatus</i>). <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 2088-2104.	2.3	1
16	On biological evolution and environmental solutions. <i>Science of the Total Environment</i> , 2020, 724, 138194.	8.0	9
17	Active learning for anomaly detection in environmental data. <i>Environmental Modelling and Software</i> , 2020, 134, 104869.	4.5	31
18	Interactive effects of foundation species on ecosystem functioning and stability in response to disturbance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191857.	2.6	8

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19	The role of plasticity in the evolution of cryptic pigmentation in a freshwater isopod. <i>Journal of Animal Ecology</i> , 2019, 88, 612-623.	2.8	8
20	Rapid Divergence of Predator Functional Traits Affects Prey Composition in Aquatic Communities. <i>American Naturalist</i> , 2019, 193, 331-345.	2.1	21
21	The intrinsic predictability of ecological time series and its potential to guide forecasting. <i>Ecological Monographs</i> , 2019, 89, e01359.	5.4	74
22	An experimental test of how parasites of predators can influence trophic cascades and ecosystem functioning. <i>Ecology</i> , 2019, 100, e02744.	3.2	14
23	A key metabolic gene for recurrent freshwater colonization and radiation in fishes. <i>Science</i> , 2019, 364, 886-889.	12.6	109
24	Principles of Ecology Revisited: Integrating Information and Ecological Theories for a More Unified Science. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	44
25	Detecting the macroevolutionary signal of species interactions. <i>Journal of Evolutionary Biology</i> , 2019, 32, 769-782.	1.7	66
26	Ecosystem tipping points in an evolving world. <i>Nature Ecology and Evolution</i> , 2019, 3, 355-362.	7.8	203
27	Eco-evolutionary feedbacks—Theoretical models and perspectives. <i>Functional Ecology</i> , 2019, 33, 13-30.	3.6	137
28	Predator-induced changes in dissolved organic carbon dynamics. <i>Oikos</i> , 2019, 128, 430-440.	2.7	13
29	Evolution as an ecosystem process: insights from genomics. <i>Genome</i> , 2018, 61, 298-309.	2.0	11
30	Proteome evolution under non-substitutable resource limitation. <i>Nature Communications</i> , 2018, 9, 4650.	12.8	8
31	Deciphering the Interdependence between Ecological and Evolutionary Networks. <i>Trends in Ecology and Evolution</i> , 2018, 33, 504-512.	8.7	28
32	Ecosystem flux and biotic modification as drivers of metaecosystem dynamics. <i>Ecology</i> , 2017, 98, 1082-1092.	3.2	10
33	Evolution in a Community Context: On Integrating Ecological Interactions and Macroevolution. <i>Trends in Ecology and Evolution</i> , 2017, 32, 291-304.	8.7	129
34	Experimental evidence that parasites drive eco-evolutionary feedbacks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3678-3683.	7.1	62
35	Stoichiometric traits of stickleback: Effects of genetic background, rearing environment, and ontogeny. <i>Ecology and Evolution</i> , 2017, 7, 2617-2625.	1.9	20
36	The effect of top predator presence and phenotype on aquatic microbial communities. <i>Ecology and Evolution</i> , 2017, 7, 1572-1582.	1.9	9

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37	The Ecology and Evolution of Stoichiometric Phenotypes. <i>Trends in Ecology and Evolution</i> , 2017, 32, 108-117.	8.7	83
38	Zooplankton communities and <i>Bythotrephes longimanus</i> in lakes of the montane region of the northern Alps. <i>Inland Waters</i> , 2017, 7, 3-13.	2.2	16
39	Transgenerational selection driven by divergent ecological impacts of hybridizing lineages. <i>Nature Ecology and Evolution</i> , 2017, 1, 1757-1765.	7.8	18
40	Eutrophication and climate warming alter spatial (depth) co-occurrence patterns of lake phytoplankton assemblages. <i>Hydrobiologia</i> , 2017, 787, 375-385.	2.0	19
41	The Legacy of Ecosystem Effects Caused by Adaptive Radiation. <i>Copeia</i> , 2017, 105, 550-557.	1.3	5
42	Zooplankton communities and in lakes of the montane region of the northern Alps. <i>Inland Waters</i> , 2017, 7, 3-13.	2.2	1
43	Investment in boney defensive traits alters organismal stoichiometry and excretion in fish. <i>Oecologia</i> , 2016, 181, 1209-1220.	2.0	39
44	The association of feeding behaviour with the resistance and tolerance to parasites in recently diverged sticklebacks. <i>Journal of Evolutionary Biology</i> , 2016, 29, 2157-2167.	1.7	15
45	Grazers structure the bacterial and algal diversity of aquatic metacommunities. <i>Ecology</i> , 2016, 97, 3472-3484.	3.2	13
46	Experimental Evidence of an Eco-evolutionary Feedback during Adaptive Divergence. <i>Current Biology</i> , 2016, 26, 483-489.	3.9	75
47	An introduction to niche construction theory. <i>Evolutionary Ecology</i> , 2016, 30, 191-202.	1.2	376
48	Experimental evidence that evolution by niche construction affects dissipative ecosystem dynamics. <i>Evolutionary Ecology</i> , 2016, 30, 221-234.	1.2	8
49	Using phylogenetics in community assembly and ecosystem functioning research. <i>Functional Ecology</i> , 2015, 29, 589-591.	3.6	40
50	Does human activity impact the natural antibiotic resistance background? Abundance of antibiotic resistance genes in 21 Swiss lakes. <i>Environment International</i> , 2015, 81, 45-55.	10.0	209
51	The ecological forecast horizon, and examples of its uses and determinants. <i>Ecology Letters</i> , 2015, 18, 597-611.	6.4	242
52	Challenges and prospects for interpreting long-term phytoplankton diversity changes in Lake Zurich (Switzerland). <i>Freshwater Biology</i> , 2015, 60, 1052-1059.	2.4	20
53	Estimating Bacterial Diversity for Ecological Studies: Methods, Metrics, and Assumptions. <i>PLoS ONE</i> , 2015, 10, e0125356.	2.5	89
54	Individual Trait Variation and Diversity in Food Webs. <i>Advances in Ecological Research</i> , 2014, 50, 207-241.	2.7	16

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55	Genomics and the origin of species. <i>Nature Reviews Genetics</i> , 2014, 15, 176-192.	16.3	850
56	Under niche construction: an operational bridge between ecology, evolution, and ecosystem science. <i>Ecological Monographs</i> , 2014, 84, 245-263.	5.4	148
57	Phenotypic plasticity influences the eco-evolutionary dynamics of a predator-prey system. <i>Ecology</i> , 2014, 95, 3080-3092.	3.2	39
58	Ecological speciation and phenotypic plasticity affect ecosystems. <i>Ecology</i> , 2014, 95, 2723-2735.	3.2	31
59	Genetics of ecological divergence during speciation. <i>Nature</i> , 2014, 511, 307-311.	27.8	264
60	Maintenance of a Genetic Polymorphism with Disruptive Natural Selection in Stickleback. <i>Current Biology</i> , 2014, 24, 1289-1292.	3.9	19
61	Adaptive plasticity and genetic divergence in feeding efficiency during parallel adaptive radiation of whitefish (<i>Coregonus</i> spp.). <i>Journal of Evolutionary Biology</i> , 2013, 26, 483-498.	1.7	45
62	Effects of patch connectivity and heterogeneity on metacommunity structure of planktonic bacteria and viruses. <i>ISME Journal</i> , 2013, 7, 533-542.	9.8	71
63	Food web consequences of size-based predation and vertical migration of an invertebrate predator (<i>Leptodora kindtii</i>). <i>Limnology and Oceanography</i> , 2013, 58, 1790-1801.	3.1	10
64	Effects of environmental variation and spatial distance on <i>Bacteria</i> , <i>Archaea</i> and viruses in sub-polar and arctic waters. <i>ISME Journal</i> , 2013, 7, 1507-1518.	9.8	88
65	Variation in Body Shape across Species and Populations in a Radiation of Diaptomid Copepods. <i>PLoS ONE</i> , 2013, 8, e68272.	2.5	9
66	Reversal in the relationship between species richness and turnover in a phytoplankton community. <i>Ecology</i> , 2012, 93, 2435-2447.	3.2	20
67	Effects of re-oligotrophication and climate warming on plankton richness and community stability in a deep mesotrophic lake. <i>Oikos</i> , 2012, 121, 1317-1327.	2.7	72
68	Contrasting Ecosystem-Effects of Morphologically Similar Copepods. <i>PLoS ONE</i> , 2011, 6, e26700.	2.5	15
69	Toward an integration of evolutionary biology and ecosystem science. <i>Ecology Letters</i> , 2011, 14, 690-701.	6.4	232
70	Temporal discontinuity of nutrient limitation in plankton communities. <i>Aquatic Sciences</i> , 2010, 72, 393-402.	1.5	15
71	Environmental stability and lake zooplankton diversity – contrasting effects of chemical and thermal variability. <i>Ecology Letters</i> , 2010, 13, 453-463.	6.4	123
72	Sympatric and Allopatric Divergence of MHC Genes in Threespine Stickleback. <i>PLoS ONE</i> , 2010, 5, e10948.	2.5	51

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73	Specialization of trophic position and habitat use by sticklebacks in an adaptive radiation. <i>Ecology</i> , 2010, 91, 1025-1034.	3.2	115
74	Anthropogenic disturbance history influences the temporal coherence of paleoproductivity in two lakes. <i>Journal of Paleolimnology</i> , 2009, 42, 167-181.	1.6	9
75	Evolutionary diversification in stickleback affects ecosystem functioning. <i>Nature</i> , 2009, 458, 1167-1170.	27.8	309
76	Evidence for asymmetric migration load in a pair of ecologically divergent stickleback populations. <i>Biological Journal of the Linnean Society</i> , 2008, 94, 273-287.	1.6	42
77	Detecting trophic level variation in consumer assemblages. <i>Freshwater Biology</i> , 2008, 53, 1942-1953.	2.4	24
78	Lipid extraction has little effect on the $\delta^{15}\text{N}$ of aquatic consumers. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 338-342.	2.0	54
79	Distinguishing trophic variation from seasonal and size-based isotopic ($\delta^{15}\text{N}$) variation of zooplankton. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2007, 64, 74-83.	1.4	24
80	HABITAT SPECIALIZATION AND THE EXPLOITATION OF ALLOCHTHONOUS CARBON BY ZOOPLANKTON. <i>Ecology</i> , 2006, 87, 2800-2812.	3.2	49
81	Carbon pathways to zooplankton: insights from the combined use of stable isotope and fatty acid biomarkers. <i>Freshwater Biology</i> , 2006, 51, 2041-2051.	2.4	49
82	Temporal variation in body composition (C : N) helps explain seasonal patterns of zooplankton $\delta^{13}\text{C}$. <i>Freshwater Biology</i> , 2005, 50, 502-515.	2.4	81
83	Consequences of large temporal variability of zooplankton $\delta^{15}\text{N}$ for modeling fish trophic position and variation. <i>Limnology and Oceanography</i> , 2005, 50, 1404-1414.	3.1	42
84	A critical evaluation of intrapopulation variation of $\delta^{13}\text{C}$ and isotopic evidence of individual specialization. <i>Oecologia</i> , 2004, 140, 361-371.	2.0	143
85	Compositional and interlake variability of zooplankton affect baseline stable isotope signatures. <i>Limnology and Oceanography</i> , 2003, 48, 1977-1987.	3.1	82