Michael Tobler

List of Publications by Year
in descending order

119 papers	3,377 citations	136950 32 h-index	214800 47 g-index
125 all docs	125 docs citations	125 times ranked	2477 citing authors

#	Article	IF	Citations
1	Parallel shifts of visual sensitivity and body coloration in replicate populations of extremophile fish. Molecular Ecology, 2022, 31, 946-958.	3.9	3
2	Impacts of heavy metal pollution on the ionomes and transcriptomes of Western mosquitofish (<i>Gambusia affinis</i>). Molecular Ecology, 2022, 31, 1527-1542.	3.9	8
3	microRNA expression variation as a potential molecular mechanism contributing to adaptation to hydrogen sulphide. Journal of Evolutionary Biology, 2021, 34, 977-988.	1.7	19
4	Epigenetic inheritance of DNA methylation changes in fish living in hydrogen sulfideâ€“rich springs. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	36
5	Functional consequences of phenotypic variation between locally adapted populations: Swimming performance and ventilation in extremophile fish. Journal of Evolutionary Biology, 2020, 33, 512-523.	1.7	8
6	Convergent evolution of conserved mitochondrial pathways underlies repeated adaptation to extreme environments. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16424-16430.	7.1	44
7	Bacterial Diversity in Replicated Hydrogen Sulfide-Rich Streams. Microbial Ecology, 2019, 77, 559-573.	2.8	12
8	Complex patterns of genetic and phenotypic divergence in populations of the Lake Malawi cichlid Maylandia zebra. Hydrobiologia, 2019, 832, 135-151.	2.0	1
9	Temperature effects on performance and physiology of two prairie stream minnows. , 2019, 7, coz063.		7
10	Expression analyses of cave mollies (Poecilia mexicana) reveal key genes involved in the early evolution of eye regression. Biology Letters, 2019, 15, 20190554.	2.3	14
11	Local ancestry analysis reveals genomic convergence in extremophile fishes. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180240.	4.0	18
12	Correlated divergence of female and male genitalia in replicated lineages with ongoing ecological speciation. Evolution; International Journal of Organic Evolution, 2019, 73, 1200-1212.	2.3	4
13	Mitochondria and the Origin of Species: Bridging Genetic and Ecological Perspectives on Speciation Processes. Integrative and Comparative Biology, 2019, 59, 900-911.	2.0	20
14	Detection of changes in mitochondrial hydrogen sulfide <i>i</i> <i>n vivo</i> in the fish model <i>Poecilia mexicana</i> (Poeciliidae). Biology Open, 2019, 8, .	1.2	5
15	Correlated evolution of thermal niches and functional physiology in tropical freshwater fishes. Journal of Evolutionary Biology, 2018, 31, 722-734.	1.7	7
16	Extreme environments and the origins of biodiversity: Adaptation and speciation in sulphide spring fishes. Molecular Ecology, 2018, 27, 843-859.	3.9	56
17	Molecular evolution and expression of oxygen transport genes in livebearing fishes (Poeciliidae) from hydrogen sulfide rich springs. Genome, 2018, 61, 273-286.	2.0	18
18	Concordant changes in gene expression and nucleotides underlie independent adaptation to hydrogen-sulfide-rich environments. Genome Biology and Evolution, 2018, 10, 2867-2881.	2.5	14

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19	Body shape variation in two species of darters (Etheostoma , Percidae) and its relation to the environment. Ecology of Freshwater Fish, 2017, 26, 4-18.	1.4	7
20	Complexities of gene expression patterns in natural populations of an extremophile fish (<i>Poecilia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.9	21
21	Body shape differences in a pair of closely related Malawi cichlids and their hybrids: Effects of genetic variation, phenotypic plasticity, and transgressive segregation. Ecology and Evolution, 2017, 7, 4336-4346.	1.9	20
22	The roles of plasticity and evolutionary change in shaping gene expression variation in natural populations of extremophile fish. Molecular Ecology, 2017, 26, 6384-6399.	3.9	33
23	Genomeâ€scale data reveal that endemic Poecilia populations from small sulphidic springs display no evidence of inbreeding. Molecular Ecology, 2017, 26, 4920-4934.	3.9	8
24	Sex-specific evolution during the diversification of live-bearing fishes. Nature Ecology and Evolution, 2017, 1, 1185-1191.	7.8	18
25	Three new species of <i>Stiphrornis</i> (Aves: Muscicapidae) from the Afro-tropics, with a molecular phylogenetic assessment of the genus. Systematics and Biodiversity, 2017, 15, 87-104.	1.2	7
26	Convergent evolution of reduced energy demands in extremophile fish. PLoS ONE, 2017, 12, e0186935.	2.5	18
27	Toxic hydrogen sulphide shapes brain anatomy: a comparative study of sulphideâ€adapted ecotypes in the <i>Poecilia mexicana</i> complex. Journal of Zoology, 2016, 300, 163-176.	1.7	13
28	Habitat use by two extremophile, highly endemic, and critically endangered fish species (<i>Gambusia) Tj ETQq0 0 0 rgBT /Overlock 10 T Freshwater Ecosystems, 2016, 26, 1155-1167.	2.0	12
29	Swimming in polluted waters. Science, 2016, 354, 1232-1233.	12.6	5
30	Extremophile Poeciliidae: multivariate insights into the complexity of speciation along replicated ecological gradients. BMC Evolutionary Biology, 2016, 16, 136.	3.2	33
31	Mechanisms Underlying Adaptation to Life in Hydrogen Sulfideâ€"Rich Environments. Molecular Biology and Evolution, 2016, 33, 1419-1434.	8.9	69
32	Using replicated evolution in extremophile fish to understand diversification in elemental composition and nutrient excretion. Freshwater Biology, 2016, 61, 158-171.	2.4	13
33	Phylogeography and species delimitation in convict cichlids (Cichlidae:<i>Amatitlania</i>): implications for taxonomy and Plio-Pleistocene evolutionary history in Central America. Biological Journal of the Linnean Society, 2016, , .	1.6	7
34	Adaptive, but not conditionâ€dependent, body shape differences contribute to assortative mating preferences during ecological speciation. Evolution; International Journal of Organic Evolution, 2016, 70, 2809-2822.	2.3	18
35	The Evolutionary Ecology of Animals Inhabiting Hydrogen Sulfideâ€"Rich Environments. Annual Review of Ecology, Evolution, and Systematics, 2016, 47, 239-262.	8.3	54
36	Phylogenetic analyses of the subgenus Mollienesia (Poecilia, Poeciliidae, Teleostei) reveal taxonomic inconsistencies, cryptic biodiversity, and spatio-temporal aspects of diversification in Middle America. Molecular Phylogenetics and Evolution, 2016, 103, 230-244.	2.7	34

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37	Spatiotemporal environmental heterogeneity and the maintenance of the tailspot polymorphism in the variable platyfish (<i>Xiphophorus variatus</i>). Evolution; International Journal of Organic Evolution, 2016, 70, 408-419.	2.3	7
38	From richer to poorer: successful invasion by freshwater fishes depends on species richness of donor and recipient basins. Global Change Biology, 2016, 22, 2440-2450.	9.5	38
39	Ecological divergence and conservatism: spatiotemporal patterns of niche evolution in a genus of livebearing fishes (Poeciliidae: Xiphophorus). BMC Evolutionary Biology, 2016, 16, 44.	3.2	23
40	Extremophile Fishes: An Introduction. , 2015, , 1-7.		5
41	Environmental heterogeneity generates opposite gene-by-environment interactions for two fitness-related traits within a population. Evolution; International Journal of Organic Evolution, 2015, 69, 541-550.	2.3	10
42	Brain size variation in extremophile fish: local adaptation versus phenotypic plasticity. Journal of Zoology, 2015, 295, 143-153.	1.7	55
43	Reduction of Energetic Demands through Modification of Body Size and Routine Metabolic Rates in Extremophile Fish. Physiological and Biochemical Zoology, 2015, 88, 371-383.	1.5	34
44	Convergent changes in the trophic ecology of extremophile fish along replicated environmental gradients. Freshwater Biology, 2015, 60, 768-780.	2.4	19
45	Extremophile Fishes: An Integrative Synthesis. , 2015, , 279-296.		6
46	Hydrogen Sulfide-Toxic Habitats. , 2015, , 137-159.		23
47	Patterns of Macroinvertebrate and Fish Diversity in Freshwater Sulphide Springs. Diversity, 2014, 6, 597-632.	1.7	39
48	Colonisation of toxic environments drives predictable lifeâ€history evolution in livebearing fishes (Poeciliidae). Ecology Letters, 2014, 17, 65-71.	6.4	61
49	Testing the ecological consequences of evolutionary change using elements. Ecology and Evolution, 2014, 4, 528-538.	1.9	75
50	H2S exposure elicits differential expression of candidate genes in fish adapted to sulfidic and non-sulfidic environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2014, 175, 7-14.	1.8	33
51	Morphological variation in vanishing Mexican desert fishes of the genus <i>Characodon</i> (Goodeidae). Journal of Fish Biology, 2014, 84, 283-296.	1.6	2
52	Selection from parasites favours immunogenetic diversity but not divergence among locally adapted host populations. Journal of Evolutionary Biology, 2014, 27, 960-974.	1.7	32
53	Variation in Melanism and Female Preference in Proximate but Ecologically Distinct Environments. Ethology, 2014, 120, 1090-1100.	1.1	9
54	Differences in resource assimilation between the unisexual Amazon molly, Poecilia formosa (Poeciliidae) and its sexual host (Poecilia latipinna). Environmental Biology of Fishes, 2014, 97, 875-880.	1.0	5

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55	Evolution of body shape in differently coloured sympatric congeners and allopatric populations of <scp>L</scp>ake <scp>M</scp>alawi's rockâ€dwelling cichlids. Journal of Evolutionary Biology, 2014, 27, 826-839.	1.7	14
56	Parallel evolution of cox genes in H2S-tolerant fish as key adaptation to a toxic environment. Nature Communications, 2014, 5, 3873.	12.8	75
57	GENETIC DIFFERENTIATION AND SELECTION AGAINST MIGRANTS IN EVOLUTIONARILY REPLICATED EXTREME ENVIRONMENTS. Evolution; International Journal of Organic Evolution, 2013, 67, 2647-2661.	2.3	58
58	Upstream effects of a reservoir on fish assemblages 45â€‰years following impoundment. Journal of Fish Biology, 2013, 82, 1659-1670.	1.6	21
59	Population Structure, Habitat Use, and Diet of Giant Waterbugs in a Sulfidic Cave. Southwestern Naturalist, 2013, 58, 420-426.	0.1	7
60	Invasion of rusty crayfish, Orconectes rusticus, in the United States: niche shifts and potential future distribution. Journal of Crustacean Biology, 2013, 33, 293-300.	0.8	14
61	Crayfishes (Decapoda : Cambaridae) of Oklahoma: identification, distributions, and natural history. Zootaxa, 2013, 3717, 101.	0.5	10
62	The Rediscovery of a Long Described Species Reveals Additional Complexity in Speciation Patterns of Poeciliid Fishes in Sulfide Springs. PLoS ONE, 2013, 8, e71069.	2.5	47
63	Twelve new microsatellite loci for the sulphur molly (Poecilia sulphuraria) and the related Atlantic molly (P. mexicana). Conservation Genetics Resources, 2012, 4, 935-937.	0.8	6
64	Genomic resources for a model in adaptation and speciation research: characterization of the Poecilia mexicana transcriptome. BMC Genomics, 2012, 13, 652.	2.8	25
65	Relationships between spatioâ€temporal environmental and genetic variation reveal an important influence of exogenous selection in a pupfish hybrid zone. Molecular Ecology, 2012, 21, 1209-1222.	3.9	23
66	Physiological adaptation along environmental gradients and replicated hybrid zone structure in swordtails (Teleostei: <i>Xiphophorus</i>). Journal of Evolutionary Biology, 2012, 25, 1800-1814.	1.7	66
67	Hydrogen sulfide, bacteria, and fish: a unique, subterranean food chain. Ecology, 2011, 92, 2056-2062.	3.2	39
68	Replicated hybrid zones of Xiphophorus swordtails along an elevational gradient. Molecular Ecology, 2011, 20, 342-356.	3.9	83
69	Annual variation of community biomass is lower in more diverse stream fish communities. Oikos, 2011, 120, 582-590.	2.7	9
70	EVOLUTION IN EXTREME ENVIRONMENTS: REPLICATED PHENOTYPIC DIFFERENTIATION IN LIVEBEARING FISH INHABITING SULFIDIC SPRINGS. Evolution; International Journal of Organic Evolution, 2011, 65, 2213-2228.	2.3	123
71	Dietary niche overlap in sympatric asexual and sexual livebearing fishes Poecilia spp.. Journal of Fish Biology, 2011, 79, 1760-1773.	1.6	24
72	Feeding efficiency and food competition in coexisting sexual and asexual livebearing fishes of the genus Poecilia. Environmental Biology of Fishes, 2011, 90, 197-205.	1.0	16

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73	Examination of boldness traits in sexual and asexual mollies (Poecilia latipinna, P. formosa). Acta Ethologica, 2011, 14, 77-83.	0.9	12
74	Convergent Patterns of Body Shape Differentiation in Four Different Clades of Poeciliid Fishes Inhabiting Sulfide Springs. Evolutionary Biology, 2011, 38, 412-421.	1.1	30
75	Predator-induced changes of female mating preferences: innate and experiential effects. BMC Evolutionary Biology, 2011, 11, 190.	3.2	39
76	An indigenous religious ritual selects for resistance to a toxicant in a livebearing fish. Biology Letters, 2011, 7, 229-232.	2.3	8
77	Costly interactions between the sexes: combined effects of male sexual harassment and female choice?. Behavioral Ecology, 2011, 22, 723-729.	2.2	20
78	A novel, sexually selected trait in poeciliid fishes: female preference for mustache-like, rostral filaments in male Poecilia sphenops. Behavioral Ecology and Sociobiology, 2010, 64, 1849-1855.	1.4	23
79	Complementary effect of natural and sexual selection against immigrants maintains differentiation between locally adapted fish. Die Naturwissenschaften, 2010, 97, 769-774.	1.6	39
80	Genetic and morphological divergence among Gravel Bank Grasshoppers, Chorthippus pullus (Acrididae), from contrasting environments. Organisms Diversity and Evolution, 2010, 10, 381-395.	1.6	0
81	Equal fecundity in asexual and sexual mollies (Poecilia). Environmental Biology of Fishes, 2010, 88, 201-206.	1.0	20
82	Differential susceptibility to food stress in neonates of sexual and asexual mollies (Poecilia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Tc	1.2	28
83	Locally adapted fish populations maintain small-scale genetic differentiation despite perturbation by a catastrophic flood event. BMC Evolutionary Biology, 2010, 10, 256.	3.2	48
84	Environmental variation, hybridization, and phenotypic diversification in Cuatro CiÃ©negas pupfishes. Journal of Evolutionary Biology, 2010, 23, 1475-1489.	1.7	49
85	Reduced opsin gene expression in a cave-dwelling fish. Biology Letters, 2010, 6, 98-101.	2.3	31
86	A New Species of Boubou (Malaconotidae:<i>Laniarius</i>) From the Albertine Rift. Auk, 2010, 127, 678-689.	1.4	15
87	Subterranean Fishes of Mexico (Poecilia mexicana, Poeciliidae). , 2010, , 281-330.		17
88	Does a predatory insect contribute to the divergence between cave- and surface-adapted fish populations?. Biology Letters, 2009, 5, 506-509.	2.3	41
89	Offspring number in a livebearing fish (Poecilia mexicana, Poeciliidae): reduced fecundity and reduced plasticity in a population of cave mollies. Environmental Biology of Fishes, 2009, 84, 89-94.	1.0	31
90	Threatened fishes of the world: Gambusia eurystoma Miller, 1975 (Poeciliidae). Environmental Biology of Fishes, 2009, 85, 251-251.	1.0	7

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91	Threatened fishes of the world: Poecilia sulphuraria (Alvarez, 1948) (Poeciliidae). Environmental Biology of Fishes, 2009, 85, 333-334.	1.0	12
92	A morphological gradient revisited: cave mollies vary not only in eye size. Environmental Biology of Fishes, 2009, 86, 285-292.	1.0	20
93	Natural and sexual selection against immigrants maintains differentiation among microâ€allopatric populations. Journal of Evolutionary Biology, 2009, 22, 2298-2304.	1.7	72
94	A new and morphologically distinct population of cavernicolous Poecilia mexicana (Poeciliidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.0	27
95	Male-biased predation of a cave fish by a giant water bug. Die Naturwissenschaften, 2008, 95, 775-779.	1.6	35
96	Sperm production in an extremophile fish, the cave molly (Poecilia mexicana, Poeciliidae, Teleostei). Aquatic Ecology, 2008, 42, 685-692.	1.5	13
97	HÃ¶hlenfische: Und die im Dunkeln sieht man doch.... Biologie in Unserer Zeit, 2008, 38, 280-280.	0.2	0
98	TOXIC HYDROGEN SULFIDE AND DARK CAVES: PHENOTYPIC AND GENETIC DIVERGENCE ACROSS TWO ABIOTIC ENVIRONMENTAL GRADIENTS IN<i>POECILIA MEXICANA</i>. Evolution; International Journal of Organic Evolution, 2008, 62, 2643-2659.	2.3	122
99	Two endemic and endangered fishes, <i>Poecilia sulphuraria</i> (Alvarez, 1948) and <i>Gambusia eurystoma</i> Miller, 1975 (Poeciliidae, Teleostei) as only survivors in a small sulphidic habitat. Journal of Fish Biology, 2008, 72, 523-533.	1.6	38
100	Polymorphic MHC loci in an asexual fish, the amazon molly (<i>Poecilia formosa</i>; Poeciliidae). Molecular Ecology, 2008, 17, 5220-5230.	3.9	24
101	Does divergence in female mate choice affect male size distributions in two cave fish populations?. Biology Letters, 2008, 4, 452-454.	2.3	37
102	Expanding the horizon: the Red Queen and potential alternatives. Canadian Journal of Zoology, 2008, 86, 765-773.	1.0	18
103	Sexual harassment in live-bearing fishes (Poeciliidae): comparing courting and noncourting species. Behavioral Ecology, 2007, 18, 680-688.	2.2	83
104	Predation of a cave fish (<i>Poecilia mexicana</i>, Poeciliidae) by a giant waterâ€bug (<i>Belostoma</i>,) Tj ETQq0 0 0 rgBT /Overlock 1	2.2	43
105	Extreme habitats as refuge from parasite infections? Evidence from an extremophile fish. Acta Oecologica, 2007, 31, 270-275.	1.1	30
106	Photophilic behaviour in surface- and cave-dwelling Atlantic mollies Poecilia mexicana (Poeciliidae). Journal of Fish Biology, 2007, 71, 1225-1231.	1.6	11
107	Amazon mollies. Current Biology, 2007, 17, R536-R537.	3.9	4
108	Survival in an extreme habitat: the roles of behaviour and energy limitation. Die Naturwissenschaften, 2007, 94, 991-996.	1.6	77

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109	Influence of black spot disease on shoaling behaviour in female western mosquitofish, Gambusia affinis (Poeciliidae, Teleostei). Environmental Biology of Fishes, 2007, 81, 29-34.	1.0	42
110	Sex recognition in surface- and cave-dwelling Atlantic molly females (Poecilia mexicana, Poeciliidae,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	11
111	Local adaptation and pronounced genetic differentiation in an extremophile fish, Poecilia mexicana, inhabiting a Mexican cave with toxic hydrogen sulphide. Molecular Ecology, 2006, 16, 967-976.	3.9	68
112	Life on the edge: hydrogen sulfide and the fish communities of a Mexican cave and surrounding waters. Extremophiles, 2006, 10, 577-585.	2.3	116
113	Black spots and female association preferences in a sexual/asexual mating complex (Poecilia,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.4	27
114	Reduction of the association preference for conspecifics in cave-dwelling Atlantic mollies, Poecilia mexicana. Behavioral Ecology and Sociobiology, 2006, 60, 794-802.	1.4	23
115	Feigning death in the Central American cichlid Parachromis friedrichsthalii.. Journal of Fish Biology, 2005, 66, 877-881.	1.6	12
116	Comparison of parasite communities in native and introduced populations of sexual and asexual mollies of the genus Poecilia. Journal of Fish Biology, 2005, 67, 1072-1082.	1.6	26
117	Parasites in sexual and asexual mollies (Poecilia , Poeciliidae, Teleostei): a case for the Red Queen?. Biology Letters, 2005, 1, 166-168.	2.3	46
118	Divergence in trophic ecology characterizes colonization of extreme habitats. Biological Journal of the Linnean Society, 0, 95, 517-528.	1.6	51
119	Natural history and trophic ecology of three populations of the Mexican cavefish, Astyanax mexicanus. Environmental Biology of Fishes, 0, , 1.	1.0	4