

# RÃ¼diger Riesch

## List of Publications by Year in descending order

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92  
papers

2,718  
citations

159585

30  
h-index

233421

45  
g-index

94  
all docs

94  
docs citations

94  
times ranked

2298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transitions between phases of genomic differentiation during stick-insect speciation. <i>Nature Ecology and Evolution</i> , 2017, 1, 82.	7.8	144
2	Life on the edge: hydrogen sulfide and the fish communities of a Mexican cave and surrounding waters. <i>Extremophiles</i> , 2006, 10, 577-585.	2.3	116
3	Cultural traditions and the evolution of reproductive isolation: ecological speciation in killer whales?. <i>Biological Journal of the Linnean Society</i> , 2012, 106, 1-17.	1.6	114
4	Stability and group specificity of stereotyped whistles in resident killer whales, <i>Orcinus orca</i> , off British Columbia. <i>Animal Behaviour</i> , 2006, 71, 79-91.	1.9	85
5	Survival in an extreme habitat: the roles of behaviour and energy limitation. <i>Die Naturwissenschaften</i> , 2007, 94, 991-996.	1.6	77
6	Long-term balancing selection on chromosomal variants associated with crypsis in a stick insect. <i>Molecular Ecology</i> , 2017, 26, 6189-6205.	3.9	77
7	Toxic hydrogen sulfide and dark caves: life-history adaptations in a livebearing fish ( <i>Poecilia mexicana</i> ). <i>TJ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 142</i>	3.2	76
8	Natural and sexual selection against immigrants maintains differentiation among microallopatric populations. <i>Journal of Evolutionary Biology</i> , 2009, 22, 2298-2304.	1.7	72
9	Predation's Role in Life-History Evolution of a Livebearing Fish and a Test of the Trexler-DeAngelis Model of Maternal Provisioning. <i>American Naturalist</i> , 2013, 181, 78-93.	2.1	71
10	Selection on a Genetic Polymorphism Counteracts Ecological Speciation in a Stick Insect. <i>Current Biology</i> , 2015, 25, 1975-1981.	3.9	67
11	Speciation by selection: A framework for understanding ecology's role in speciation. <i>Environmental Epigenetics</i> , 2013, 59, 31-52.	1.8	66
12	Colonisation of toxic environments drives predictable life-history evolution in livebearing fishes ( <i>Poeciliidae</i> ). <i>Ecology Letters</i> , 2014, 17, 65-71.	6.4	61
13	GENETIC DIFFERENTIATION AND SELECTION AGAINST MIGRANTS IN EVOLUTIONARILY REPLICATED EXTREME ENVIRONMENTS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 2647-2661.	2.3	58
14	Extreme environments and the origins of biodiversity: Adaptation and speciation in sulphide spring fishes. <i>Molecular Ecology</i> , 2018, 27, 843-859.	3.9	56
15	Brain size variation in extremophile fish: local adaptation versus phenotypic plasticity. <i>Journal of Zoology</i> , 2015, 295, 143-153.	1.7	55
16	Variation along the shy-bold continuum in extremophile fishes ( <i>Poecilia mexicana</i> , <i>Poecilia</i> )	1.4	49
17	Unique evolutionary trajectories in repeated adaptation to hydrogen sulphide-toxic habitats of a neotropical fish ( <i>Poecilia mexicana</i> ). <i>Molecular Ecology</i> , 2015, 24, 5446-5459.	3.9	49
18	Convergent life-history shifts: toxic environments result in big babies in two clades of poeciliids. <i>Die Naturwissenschaften</i> , 2010, 97, 133-141.	1.6	48

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19	Locally adapted fish populations maintain small-scale genetic differentiation despite perturbation by a catastrophic flood event. <i>BMC Evolutionary Biology</i> , 2010, 10, 256.	3.2	48
20	Shared and Unique Patterns of Embryo Development in Extremophile Poeciliids. <i>PLoS ONE</i> , 2011, 6, e27377.	2.5	42
21	Complementary effect of natural and sexual selection against immigrants maintains differentiation between locally adapted fish. <i>Die Naturwissenschaften</i> , 2010, 97, 769-774.	1.6	39
22	Predator-induced changes of female mating preferences: innate and experiential effects. <i>BMC Evolutionary Biology</i> , 2011, 11, 190.	3.2	39
23	EVOLUTION OF MALE COLORATION DURING A POST-PLEISTOCENE RADIATION OF BAHAMAS MOSQUITOFISH ( <i>GAMBUSIA HUBBSI</i> ). <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 397-411.	2.3	39
24	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. <i>Journal of Fish Biology</i> , 2008, 72, 523-533.	1.6	38
25	Otolith morphology and hearing abilities in cave- and surface-dwelling ecotypes of the Atlantic molly, <i>Poecilia mexicana</i> (Teleostei: Poeciliidae). <i>Hearing Research</i> , 2010, 267, 137-148.	2.0	37
26	Extreme habitats are not refuges: poeciliids suffer from increased aerial predation risk in sulphidic southern Mexican habitats. <i>Biological Journal of the Linnean Society</i> , 0, 101, 417-426.	1.6	37
27	Toxic hydrogen sulphide and dark caves: pronounced male life-history divergence among locally adapted <i>Poecilia mexicana</i> (Poeciliidae). <i>Journal of Evolutionary Biology</i> , 2011, 24, 596-606.	1.7	36
28	Female sperm limitation in natural populations of a sexual/asexual mating complex ( <i>Poecilia</i> ). <i>Evolution</i> , 2010, 64, 1075-1083.	2.3	35
29	Whistle communication in mammal-eating killer whales ( <i>Orcinus orca</i> ): further evidence for acoustic divergence between ecotypes. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1377-1387.	1.4	35
30	Extremophile Poeciliidae: multivariate insights into the complexity of speciation along replicated ecological gradients. <i>BMC Evolutionary Biology</i> , 2016, 16, 136.	3.2	33
31	Selection from parasites favours immunogenetic diversity but not divergence among locally adapted host populations. <i>Journal of Evolutionary Biology</i> , 2014, 27, 960-974.	1.7	32
32	Offspring number in a livebearing fish ( <i>Poecilia mexicana</i> , Poeciliidae): reduced fecundity and reduced plasticity in a population of cave mollies. <i>Environmental Biology of Fishes</i> , 2009, 84, 89-94.	1.0	31
33	Matrotrophy in the cave molly: an unexpected provisioning strategy in an extreme environment. <i>Evolutionary Ecology</i> , 2010, 24, 789-801.	1.2	30
34	Effects of male sexual harassment on female time budgets, feeding behavior, and metabolic rates in a tropical livebearing fish ( <i>Poecilia mexicana</i> ). <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1513-1523.	1.4	29
35	Speciation in caves: experimental evidence that permanent darkness promotes reproductive isolation. <i>Biology Letters</i> , 2011, 7, 909-912.	2.3	29
36	Whistle sequences in wild killer whales ( <i>Orcinus orca</i> ). <i>Journal of the Acoustical Society of America</i> , 2008, 124, 1822-1829.	1.1	28

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37	Divergent Evolution of Male Aggressive Behaviour: Another Reproductive Isolation Barrier in Extremophile Poeciliid Fishes?. <i>International Journal of Evolutionary Biology</i> , 2012, 2012, 1-14.	1.0	28
38	The predictability and magnitude of life-history divergence to ecological agents of selection: a meta-analysis in livebearing fishes. <i>Ecology Letters</i> , 2016, 19, 435-442.	6.4	28
39	A new and morphologically distinct population of cavernicolous <i>Poecilia mexicana</i> (Poeciliidae:). <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i>	1.0	27
40	AURITA: an affordable, autonomous recording device for acoustic monitoring of audible and ultrasonic frequencies. <i>Bioacoustics</i> , 2019, 28, 381-396.	1.7	26
41	A century later: Adaptive plasticity and rapid evolution contribute to geographic variation in invasive mosquitofish. <i>Science of the Total Environment</i> , 2020, 726, 137908.	8.0	26
42	Reduction of the association preference for conspecifics in cave-dwelling Atlantic mollies, <i>Poecilia mexicana</i> . <i>Behavioral Ecology and Sociobiology</i> , 2006, 60, 794-802.	1.4	23
43	A novel, sexually selected trait in poeciliid fishes: female preference for mustache-like, rostral filaments in male <i>Poecilia sphenops</i> . <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1849-1855.	1.4	23
44	The Delayed Impact of Parental Age on Offspring Mortality in Mice. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2012, 67A, 351-357.	3.6	23
45	Shared and unique patterns of phenotypic diversification along a stream gradient in two congeneric species. <i>Scientific Reports</i> , 2016, 6, 38971.	3.3	23
46	Hydrogen Sulfide-Toxic Habitats. , 2015, , 137-159.		23
47	Does personality affect premating isolation between locally-adapted populations?. <i>BMC Evolutionary Biology</i> , 2016, 16, 138.	3.2	22
48	Sex-specific local life-history adaptation in surface- and cave-dwelling Atlantic mollies ( <i>Poecilia</i> ). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302</i>	3.3	22
49	Thermal regime drives a latitudinal gradient in morphology and life history in a livebearing fish. <i>Biological Journal of the Linnean Society</i> , 2018, 125, 126-141.	1.6	21
50	Ecology and evolution along environmental gradients. <i>Environmental Epigenetics</i> , 2018, 64, 193-196.	1.8	21
51	Water pollution affects fish community structure and alters evolutionary trajectories of invasive guppies ( <i>Poecilia reticulata</i> ). <i>Science of the Total Environment</i> , 2020, 730, 138912.	8.0	21
52	Off to new shores: Climate niche expansion in invasive mosquitofish ( <i>Gambusia</i> spp.). <i>Ecology and Evolution</i> , 2021, 11, 18369-18400.	1.9	20
53	Predation risk and abiotic habitat parameters affect personality traits in extremophile populations of a neotropical fish ( <i>Poecilia vivipara</i> ). <i>Ecology and Evolution</i> , 2017, 7, 6570-6581.	1.9	19
54	Mustached males in a tropical poeciliid fish: emerging female preference selects for a novel male trait. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 1437-1445.	1.4	18

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55	Rapid human-induced divergence of life-history strategies in <i>Bahamian</i> livebearing fishes (family <i>Poeciliidae</i> ). <i>Journal of Animal Ecology</i> , 2015, 84, 1732-1743.	2.8	18
56	Predation by Three Species of Spiders on a cave Fish in a Mexican Sulphur Cave. <i>Arachnology</i> , 2010, 15, 55-58.	0.4	17
57	Natural and sexual selection drive multivariate phenotypic divergence along climatic gradients in an invasive fish. <i>Scientific Reports</i> , 2018, 8, 11164.	3.3	17
58	The offspring size/fecundity trade-off and female fitness in the Atlantic molly ( <i>Poecilia mexicana</i> ). <i>Trends in Ecology &amp; Evolution</i> , 2010, 25, 10-16.	1.0	16
59	Gradient Evolution of Body Colouration in Surface- and Cave-Dwelling <i>Poecilia mexicana</i> and the Role of Phenotype-Assortative Female Mate Choice. <i>BioMed Research International</i> , 2013, 2013, 1-15.	1.9	16
60	Effects of extreme habitat conditions on otolith morphology – a case study on extremophile livebearing fishes ( <i>Poecilia mexicana</i> , <i>P. sulphuraria</i> ). <i>Zoology</i> , 2011, 114, 321-334.	1.2	15
61	Adaptive growth reduction in response to fish kairomones allows mosquito larvae ( <i>Culex pipiens</i> ) to reduce predation risk. <i>Aquatic Sciences</i> , 2016, 78, 303-314.	1.5	14
62	Geographical and temporal variation of multiple paternity in invasive mosquitofish ( <i>Gambusia holbrooki</i> ). <i>Trends in Ecology &amp; Evolution</i> , 2010, 25, 14-16.	3.9	14
63	Sperm production in an extremophile fish, the cave molly ( <i>Poecilia mexicana</i> , <i>Poeciliidae</i> , <i>Teleostei</i> ). <i>Aquatic Ecology</i> , 2008, 42, 685-692.	1.5	13
64	Toxic hydrogen sulphide shapes brain anatomy: a comparative study of sulphide-adapted ecotypes in the <i>Poecilia mexicana</i> complex. <i>Journal of Zoology</i> , 2016, 300, 163-176.	1.7	13
65	Phenotypic differentiation in a heterogeneous environment: morphological and life-history responses to ecological gradients in a livebearing fish. <i>Journal of Zoology</i> , 2020, 310, 10-23.	1.7	12
66	Microhabitat use, population densities, and size distributions of sulfur cave-dwelling <i>Poecilia mexicana</i> . <i>PeerJ</i> , 2014, 2, e490.	2.0	12
67	Behavioural and life-history regulation in a unisexual/bisexual mating system: does male mate choice affect female reproductive life histories?. <i>Biological Journal of the Linnean Society</i> , 2012, 106, 598-606.	1.6	11
68	Predator Avoidance in Extremophile Fish. <i>Life</i> , 2013, 3, 161-180.	2.4	11
69	Evolution in caves: selection from darkness causes spinal deformities in teleost fishes. <i>Biology Letters</i> , 2018, 14, 20180197.	2.3	11
70	Multiple traits and multifarious environments: integrated divergence of morphology and life history. <i>Oikos</i> , 2020, 129, 480-492.	2.7	11
71	Influence of male competition on male mating behaviour in the cave molly, <i>Poecilia mexicana</i> . <i>Journal of Ethology</i> , 2006, 24, 27-31.	0.8	10
72	Female choice for large body size in the cave molly, <i>Poecilia mexicana</i> ( <i>Poeciliidae</i> , <i>Teleostei</i> ): influence of species- and sex-specific cues. <i>Behaviour</i> , 2007, 144, 1147-1160.	0.8	10

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73	Multiple paternity in different populations of the sailfin molly, <i>Poecilia latipinna</i> . <i>Animal Biology</i> , 2012, 62, 245-262.	1.0	10
74	Evolution at the Limits. <i>Scientific American</i> , 2017, 316, 54-59.	1.0	10
75	Comparative gut content analysis of invasive mosquitofish from Italy and Spain. <i>Ecology and Evolution</i> , 2021, 11, 4379-4398.	1.9	9
76	Twelve new microsatellite loci for the sulphur molly ( <i>Poecilia sulphuraria</i> ) and the related Atlantic molly ( <i>P. mexicana</i> ). <i>Conservation Genetics Resources</i> , 2012, 4, 935-937.	0.8	6
77	Size and sex matter: reproductive biology and determinants of offspring survival in <i>Gazella marica</i> . <i>Biological Journal of the Linnean Society</i> , 2013, 110, 116-127.	1.6	6
78	Consuming Costly Prey: Optimal Foraging and the Role of Compensatory Growth. <i>Frontiers in Ecology and Evolution</i> , 2021, 8, .	2.2	6
79	Extremophile Fishes: An Integrative Synthesis. , 2015, , 279-296.		6
80	Extremophile Fishes: An Introduction. , 2015, , 1-7.		5
81	Phenotypic responses to oil pollution in a poeciliid fish. <i>Environmental Pollution</i> , 2021, 290, 118023.	7.5	5
82	Temporal Pass Plots: An intuitive method for visualising activity patterns of bats and other vocalising animals. <i>Ecological Indicators</i> , 2020, 113, 106202.	6.3	4
83	Natural history and trophic ecology of three populations of the Mexican cavefish, <i>Astyanax mexicanus</i> . <i>Environmental Biology of Fishes</i> , 0, , 1.	1.0	4
84	Resource competition explains rare cannibalism in the wild in livebearing fishes. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	3
85	Translocation of cave fish ( <i>Poecilia mexicana</i> ) within and between natural habitats along a toxicity gradient. <i>Ecology of Freshwater Fish</i> , 2013, 22, 228-233.	1.4	2
86	Species in the Making. <i>Scientific American</i> , 2016, 315, 54-61.	1.0	2
87	Life histories of guppies ( <i>Poecilia reticulata</i> Peters, 1869; <i>Poeciliidae</i> ) from the Pitch Lake in Trinidad. <i>Caribbean Journal of Science</i> , 2019, 49, 255.	0.3	2
88	Invasive fish retain plasticity of naturally selected, but diverge in sexually selected traits. <i>Science of the Total Environment</i> , 2022, 811, 152386.	8.0	2
89	Female Choice Undermines the Emergence of Strong Sexual Isolation between Locally Adapted Populations of Atlantic Mollies ( <i>Poecilia mexicana</i> ). <i>Genes</i> , 2018, 9, 232.	2.4	1
90	Tidying up the cluttered understory: Foraging strategy mediates bat activity responses to invasive rhododendron. <i>Forest Ecology and Management</i> , 2020, 475, 118392.	3.2	1

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91	Sulphide-toxic habitats are not refuges from parasite infections in an extremophile fish. <i>Acta Oecologica</i> , 2020, 106, 103602.	1.1	0
92	Aspects of the life history of the TamesÄ-molly, <i>Poecilia latipunctata</i> , from two populations in the RÄo TamesÄ-drainage in northeastern Mexico. <i>Revista Mexicana De Biodiversidad</i> , 2021, 92, 923107.	0.4	0