

Holger Schielzeth

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6761611/publications.pdf>

Version: 2024-02-01

87
papers

19,826
citations

126858

33
h-index

48277

88
g-index

102
all docs

102
docs citations

102
times ranked

27688
citing authors

#	ARTICLE	IF	CITATIONS
1	A general and simple method for obtaining R^2 from generalized linear mixed-effects models. <i>Methods in Ecology and Evolution</i> , 2013, 4, 133-142.	2.2	7,490
2	Simple means to improve the interpretability of regression coefficients. <i>Methods in Ecology and Evolution</i> , 2010, 1, 103-113.	2.2	2,158
3	Repeatability for Gaussian and non-Gaussian data: a practical guide for biologists. <i>Biological Reviews</i> , 2010, 85, 935-956.	4.7	1,937
4	The coefficient of determination R^2 and intra-class correlation coefficient from generalized linear mixed-effects models revisited and expanded. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170213.	1.5	1,644
5	rptR: repeatability estimation and variance decomposition by generalized linear mixed-effects models. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1639-1644.	2.2	1,117
6	Cryptic multiple hypotheses testing in linear models: overestimated effect sizes and the winner's curse. <i>Behavioral Ecology and Sociobiology</i> , 2011, 65, 47-55.	0.6	813
7	Conclusions beyond support: overconfident estimates in mixed models. <i>Behavioral Ecology</i> , 2009, 20, 416-420.	1.0	704
8	Robustness of linear mixed-effects models to violations of distributional assumptions. <i>Methods in Ecology and Evolution</i> , 2020, 11, 1141-1152.	2.2	528
9	Nested by design: model fitting and interpretation in a mixed model era. <i>Methods in Ecology and Evolution</i> , 2013, 4, 14-24.	2.2	248
10	The recombination landscape of the zebra finch <i>Taeniopygia guttata</i> genome. <i>Genome Research</i> , 2010, 20, 485-495.	2.4	212
11	Urbanization and its effects on personality traits: a result of microevolution or phenotypic plasticity?. <i>Global Change Biology</i> , 2013, 19, 2634-2644.	4.2	206
12	Reproducibility of animal research in light of biological variation. <i>Nature Reviews Neuroscience</i> , 2020, 21, 384-393.	4.9	193
13	Female extrapair mating behavior can evolve via indirect selection on males. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10608-10613.	3.3	183
14	General Methods for Evolutionary Quantitative Genetic Inference from Generalized Mixed Models. <i>Genetics</i> , 2016, 204, 1281-1294.	1.2	156
15	Heterozygosity-fitness correlations in zebra finches: microsatellite markers can be better than their reputation. <i>Molecular Ecology</i> , 2012, 21, 3237-3249.	2.0	133
16	Molecular evolution of genes in avian genomes. <i>Genome Biology</i> , 2010, 11, R68.	13.9	125
17	Quantifying the predictability of behaviour: statistical approaches for the study of between-individual variation in the within-individual variance. <i>Methods in Ecology and Evolution</i> , 2015, 6, 27-37.	2.2	125
18	Changing philosophies and tools for statistical inferences in behavioral ecology. <i>Behavioral Ecology</i> , 2009, 20, 1363-1375.	1.0	115

#	ARTICLE	IF	CITATIONS
19	R^2 : partitioning R^2 in generalized linear mixed models. PeerJ, 2021, 9, e11414.	0.9	114
20	Variation in sleep behaviour in free-living blue tits, <i>Cyanistes caeruleus</i> : effects of sex, age and environment. <i>Animal Behaviour</i> , 2010, 80, 853-864.	0.8	104
21	A multitrophic perspective on biodiversity – ecosystem functioning research. <i>Advances in Ecological Research</i> , 2019, 61, 1-54.	1.4	95
22	Fixed-effect variance and the estimation of repeatabilities and heritabilities: issues and solutions. <i>Journal of Evolutionary Biology</i> , 2018, 31, 621-632.	0.8	73
23	Compensatory investment in zebra finches: females lay larger eggs when paired to sexually unattractive males. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 707-715.	1.2	69
24	Poor nutritional condition promotes high-risk behaviours: a systematic review and meta-analysis. <i>Biological Reviews</i> , 2021, 96, 269-288.	4.7	57
25	Challenges and prospects in genome-wide quantitative trait loci mapping of standing genetic variation in natural populations. <i>Annals of the New York Academy of Sciences</i> , 2014, 1320, 35-57.	1.8	51
26	QTL LINKAGE MAPPING OF ZEBRA FINCH BEAK COLOR SHOWS AN OLIGOGENIC CONTROL OF A SEXUALLY SELECTED TRAIT. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 18-30.	1.1	50
27	Development of polymorphic microsatellite markers for the zebra finch (<i>Taeniopygia guttata</i>). <i>Molecular Ecology Notes</i> , 2007, 7, 1026-1028.	1.7	48
28	Statistical Quantification of Individual Differences (SQUID): an educational and statistical tool for understanding multilevel phenotypic data in linear mixed models. <i>Methods in Ecology and Evolution</i> , 2017, 8, 257-267.	2.2	45
29	No heightened condition dependence of zebra finch ornaments – a quantitative genetic approach. <i>Journal of Evolutionary Biology</i> , 2010, 23, 586-597.	0.8	42
30	Intrasexual competition in zebra finches, the role of beak colour and body size. <i>Animal Behaviour</i> , 2007, 74, 715-724.	0.8	40
31	Quantitative genetics and fitness consequences of neophilia in zebra finches. <i>Behavioral Ecology</i> , 2011, 22, 126-134.	1.0	38
32	SEX CHROMOSOME LINKED GENETIC VARIANCE AND THE EVOLUTION OF SEXUAL DIMORPHISM OF QUANTITATIVE TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 609-619.	1.1	38
33	Patterns of conspecific brood parasitism in zebra finches. <i>Animal Behaviour</i> , 2010, 79, 1329-1337.	0.8	36
34	Long-term effects of early nutrition and environmental matching on developmental and personality traits in zebra finches. <i>Animal Behaviour</i> , 2017, 128, 103-115.	0.8	36
35	Heritability of Life Span Is Largely Sex Limited in <i>Drosophila</i> . <i>American Naturalist</i> , 2013, 182, 653-665.	1.0	33
36	Choosiness, a neglected aspect of preference functions: a review of methods, challenges and statistical approaches. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2015, 201, 171-182.	0.7	31

#	ARTICLE	IF	CITATIONS
37	Sexual imprinting on continuous variation: do female zebra finches prefer or avoid unfamiliar sons of their foster parents?. <i>Journal of Evolutionary Biology</i> , 2008, 21, 1274-1280.	0.8	30
38	What triggers colour change? Effects of background colour and temperature on the development of an alpine grasshopper. <i>BMC Evolutionary Biology</i> , 2015, 15, 168.	3.2	29
39	The mean strikes back: mean–variance relationships and heteroscedasticity. <i>Trends in Ecology and Evolution</i> , 2012, 27, 474-475.	4.2	27
40	Collision between biological process and statistical analysis revealed by mean centring. <i>Journal of Animal Ecology</i> , 2020, 89, 2813-2824.	1.3	27
41	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. <i>Journal of Ecology</i> , 2022, 110, 327-339.	1.9	25
42	Within-population Y-linked genetic variation for lifespan in <i>Drosophila melanogaster</i> . <i>Journal of Evolutionary Biology</i> , 2015, 28, 1940-1947.	0.8	24
43	Morphological and colour morph clines along an altitudinal gradient in the meadow grasshopper <i>Pseudochorthippus parallelus</i> . <i>PLoS ONE</i> , 2017, 12, e0189815.	1.1	24
44	Novelty at second glance: a critical appraisal of the novel object paradigm based on meta-analysis. <i>Animal Behaviour</i> , 2021, 180, 123-142.	0.8	24
45	QTL linkage mapping of wing length in zebra finch using genome-wide single nucleotide polymorphisms markers. <i>Molecular Ecology</i> , 2012, 21, 329-339.	2.0	23
46	Success and failure in replication of genotype–phenotype associations: How does replication help in understanding the genetic basis of phenotypic variation in outbred populations?. <i>Molecular Ecology Resources</i> , 2018, 18, 739-754.	2.2	23
47	HERITABILITY OF AND EARLY ENVIRONMENT EFFECTS ON VARIATION IN MATING PREFERENCES. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 998-1006.	1.1	22
48	Comparative Analysis of Genomic Repeat Content in Gomphocerine Grasshoppers Reveals Expansion of Satellite DNA and Helitrons in Species with Unusually Large Genomes. <i>Genome Biology and Evolution</i> , 2020, 12, 1180-1193.	1.1	22
49	Nest survival and productivity of the critically endangered Sociable Lapwing <i>Vanellus gregarius</i> . <i>Ibis</i> , 2006, 148, 489-502.	1.0	21
50	QTL and quantitative genetic analysis of beak morphology reveals patterns of standing genetic variation in an Estrildid finch. <i>Molecular Ecology</i> , 2012, 21, 3704-3717.	2.0	21
51	Sex ratio adjustments in common terns: influence of mate condition and maternal experience. <i>Journal of Avian Biology</i> , 2013, 44, 179-188.	0.6	20
52	How Individualized Niches Arise: Defining Mechanisms of Niche Construction, Niche Choice, and Niche Conformance. <i>BioScience</i> , 2022, 72, 538-548.	2.2	19
53	Assortative versus disassortative mating preferences of female zebra finches based on self-referent phenotype matching. <i>Animal Behaviour</i> , 2008, 76, 1927-1934.	0.8	18
54	Association mapping of morphological traits in wild and captive zebra finches: reliable within, but not between populations. <i>Molecular Ecology</i> , 2017, 26, 1285-1305.	2.0	18

#	ARTICLE	IF	CITATIONS
55	Linked-read sequencing enables haplotype-resolved resequencing at population scale. <i>Molecular Ecology Resources</i> , 2020, 20, 1311-1322.	2.2	18
56	Singing activity stimulates partner reproductive investment rather than increasing paternity success in zebra finches. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 975-984.	0.6	17
57	Autosomal and X-Linked Additive Genetic Variation for Lifespan and Aging: Comparisons Within and Between the Sexes in <i>Drosophila melanogaster</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 3903-3911.	0.8	15
58	Correlates of male fitness in captive zebra finches - a comparison of methods to disentangle genetic and environmental effects. <i>BMC Evolutionary Biology</i> , 2011, 11, 327.	3.2	12
59	Protected habitats of Natura 2000 do not coincide with important diversity hotspots of arthropods in mountain grasslands. <i>Insect Conservation and Diversity</i> , 2019, 12, 329-338.	1.4	12
60	Green-brown polymorphism in alpine grasshoppers affects body temperature. <i>Ecology and Evolution</i> , 2020, 10, 441-450.	0.8	12
61	Waterbird population estimates for a key staging site in Kazakhstan: a contribution to wetland conservation on the Central Asian flyway. <i>Bird Conservation International</i> , 2008, 18, 71-86.	0.7	11
62	Nonautosomal Genetic Variation in Carotenoid Coloration. <i>American Naturalist</i> , 2014, 184, 374-383.	1.0	11
63	Genome size variation affects song attractiveness in grasshoppers: Evidence for sexual selection against large genomes. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 3629-3635.	1.1	11
64	A prezygotic transmission distorter acting equally in female and male zebra finches <i>Taeniopygia guttata</i> . <i>Molecular Ecology</i> , 2015, 24, 3846-3859.	2.0	11
65	Conditional repeatability and the variance explained by reaction norm variation in random slope models. <i>Methods in Ecology and Evolution</i> , 2022, 13, 1214-1223.	2.2	11
66	Spatial analyses of two color polymorphisms in an alpine grasshopper reveal a role of small-scale heterogeneity. <i>Ecology and Evolution</i> , 2018, 8, 7273-7284.	0.8	10
67	Once an optimist, always an optimist? Studying cognitive judgment bias in mice. <i>Behavioral Ecology</i> , 2022, 33, 775-788.	1.0	10
68	Transcriptome assembly for a colour-polymorphic grasshopper (<i>Gomphocerus sibiricus</i>) with a very large genome size. <i>BMC Genomics</i> , 2019, 20, 370.	1.2	9
69	Individuality meets plasticity: Endocrine phenotypes across male dominance rank acquisition in guinea pigs living in a complex social environment. <i>Hormones and Behavior</i> , 2021, 131, 104967.	1.0	9
70	Specificity of grouping behaviour: comparing colony sizes for the same seabird species in distant populations. <i>Journal of Avian Biology</i> , 2012, 43, 397-402.	0.6	7
71	High-throughput sequencing and graph-based cluster analysis facilitate microsatellite development from a highly complex genome. <i>Ecology and Evolution</i> , 2016, 6, 5718-5727.	0.8	7
72	Genome-wide evidence supports mitochondrial relationships and pervasive parallel phenotypic evolution in open-habitat chats. <i>Molecular Phylogenetics and Evolution</i> , 2019, 139, 106568.	1.2	7

#	ARTICLE	IF	CITATIONS
73	Comparative analysis of the multivariate genetic architecture of morphological traits in three species of Gomphocerine grasshoppers. <i>Heredity</i> , 2020, 124, 367-382.	1.2	7
74	Evidence for morph-specific substrate choice in a green-brown polymorphic grasshopper. <i>Behavioral Ecology</i> , 2022, 33, 17-26.	1.0	7
75	Sperm velocity in a promiscuous bird across experimental media of different viscosities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201031.	1.2	6
76	Simple inheritance of color and pattern polymorphism in the steppe grasshopper <i>Chorthippus dorsatus</i> . <i>Heredity</i> , 2021, 127, 66-78.	1.2	6
77	Hutchinson's ecological niche for individuals. <i>Biology and Philosophy</i> , 2022, 37, .	0.7	6
78	Wader, gull and tern population estimates for a key breeding and stopover site in Central Kazakhstan. <i>Bird Conservation International</i> , 2010, 20, 186-199.	0.7	5
79	The green-brown polymorphism of the club-legged grasshopper <i>Gomphocerus sibiricus</i> is heritable and appears genetically simple. <i>BMC Evolutionary Biology</i> , 2020, 20, 63.	3.2	5
80	Community genomics: a community-wide perspective on within-species genetic diversity. <i>American Journal of Botany</i> , 2021, 108, 2108-2111.	0.8	5
81	Condition-dependence and sexual ornamentation: Effects of immune challenges on a highly sexually dimorphic grasshopper. <i>Insect Science</i> , 2018, 25, 617-630.	1.5	4
82	Reply to "It is time for an empirically informed paradigm shift in animal research". <i>Nature Reviews Neuroscience</i> , 2020, 21, 661-662.	4.9	4
83	Direct and indirect genetic effects on reproductive investment in a grasshopper. <i>Journal of Evolutionary Biology</i> , 2019, 32, 331-342.	0.8	3
84	Comment on "Bateman in Nature: Predation on Offspring Reduces the Potential for Sexual Selection". <i>Science</i> , 2013, 340, 549-549.	6.0	2
85	Erster Brutnachweis des Bindenkreuzschnabels (<i>Loxia leucoptera</i>) in Mitteleuropa. <i>Journal Fur Ornithologie</i> , 1992, 133, 197-202.	1.2	1
86	Technical Comment: Response to Camacho. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1922-1922.	1.1	1
87	A population survey of the endangered White-headed Duck <i>Oxyura leucocephala</i> in Kazakhstan shows an apparently increasing Eastern population. <i>Bird Study</i> , 2019, 66, 111-120.	0.4	1