Holger Schielzeth

List of Publications by Year
in descending order

87	19,826	126907 33	48315 88
papers	citations	h-index	g-index

102	102	102	27688
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A general and simple method for obtaining R² from generalized linear mixedâ€effects models. Methods in Ecology and Evolution, 2013, 4, 133-142.	5.2	7,490
2	Simple means to improve the interpretability of regression coefficients. Methods in Ecology and Evolution, 2010, 1, 103-113.	5.2	2,158
3	Repeatability for Gaussian and nonâ€Gaussian data: a practical guide for biologists. Biological Reviews, 2010, 85, 935-956.	10.4	1,937
4	The coefficient of determination R ² and intra-class correlation coefficient from generalized linear mixed-effects models revisited and expanded. Journal of the Royal Society Interface, 2017, 14, 20170213.	3.4	1,644
5	rptR: repeatability estimation and variance decomposition by generalized linear mixedâ€effects models. Methods in Ecology and Evolution, 2017, 8, 1639-1644.	5.2	1,117
6	Cryptic multiple hypotheses testing in linear models: overestimated effect sizes and the winner's curse. Behavioral Ecology and Sociobiology, 2011, 65, 47-55.	1.4	813
7	Conclusions beyond support: overconfident estimates in mixed models. Behavioral Ecology, 2009, 20, 416-420.	2.2	704
8	Robustness of linear mixedâ€effects models to violations of distributional assumptions. Methods in Ecology and Evolution, 2020, 11, 1141-1152.	5.2	528
9	Nested by design: model fitting and interpretation in a mixed model era. Methods in Ecology and Evolution, 2013, 4, 14-24.	5.2	248
10	The recombination landscape of the zebra finch Taeniopygia guttata genome. Genome Research, 2010, 20, 485-495.	5.5	212
11	Urbanization and its effects on personality traits: a result of microevolution or phenotypic plasticity?. Global Change Biology, 2013, 19, 2634-2644.	9.5	206
12	Reproducibility of animal research in light of biological variation. Nature Reviews Neuroscience, 2020, 21, 384-393.	10.2	193
13	Female extrapair mating behavior can evolve via indirect selection on males. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10608-10613.	7.1	183
14	General Methods for Evolutionary Quantitative Genetic Inference from Generalized Mixed Models. Genetics, 2016, 204, 1281-1294.	2.9	156
15	Heterozygosityâ€“fitness correlations in zebra finches: microsatellite markers can be better than their reputation. Molecular Ecology, 2012, 21, 3237-3249.	3.9	133
16	Molecular evolution of genes in avian genomes. Genome Biology, 2010, 11, R68.	9.6	125
17	Quantifying the predictability of behaviour: statistical approaches for the study of betweenâ€individual variation in the withinâ€individual variance. Methods in Ecology and Evolution, 2015, 6, 27-37.	5.2	125
18	Changing philosophies and tools for statistical inferences in behavioral ecology. Behavioral Ecology, 2009, 20, 1363-1375.	2.2	115

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19	<tt>partR2</tt>: partitioning R² in generalized linear mixed models. PeerJ, 2021, 9, e11414.	2.0	114
20	Variation in sleep behaviour in free-living blue tits, Cyanistes caeruleus: effects of sex, age and environment. Animal Behaviour, 2010, 80, 853-864.	1.9	104
21	A multitrophic perspective on biodiversityâ€“ecosystem functioning research. Advances in Ecological Research, 2019, 61, 1-54.	2.7	95
22	Fixedâ€effect variance and the estimation of repeatabilities and heritabilities: issues and solutions. Journal of Evolutionary Biology, 2018, 31, 621-632.	1.7	73
23	Compensatory investment in zebra finches: females lay larger eggs when paired to sexually unattractive males. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 707-715.	2.6	69
24	Poor nutritional condition promotes highâ€risk behaviours: a systematic review and metaâ€analysis. Biological Reviews, 2021, 96, 269-288.	10.4	57
25	Challenges and prospects in genomeâ€wide quantitative trait loci mapping of standing genetic variation in natural populations. Annals of the New York Academy of Sciences, 2014, 1320, 35-57.	3.8	51
26	QTL LINKAGE MAPPING OF ZEBRA FINCH BEAK COLOR SHOWS AN OLIGOGENIC CONTROL OF A SEXUALLY SELECTED TRAIT. Evolution; International Journal of Organic Evolution, 2012, 66, 18-30.	2.3	50
27	Development of polymorphic microsatellite markers for the zebra finch (Taeniopygia guttata). Molecular Ecology Notes, 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. Methods in Ecology and Evolution, 2017, 8, 257-267.	5.2	45
29	No heightened condition dependence of zebra finch ornaments â€“ a quantitative genetic approach. Journal of Evolutionary Biology, 2010, 23, 586-597.	1.7	42
30	Intrasexual competition in zebra finches, the role of beak colour and body size. Animal Behaviour, 2007, 74, 715-724.	1.9	40
31	Quantitative genetics and fitness consequences of neophilia in zebra finches. Behavioral Ecology, 2011, 22, 126-134.	2.2	38
32	SEX CHROMOSOME LINKED GENETIC VARIANCE AND THE EVOLUTION OF SEXUAL DIMORPHISM OF QUANTITATIVE TRAITS. Evolution; International Journal of Organic Evolution, 2013, 67, 609-619.	2.3	38
33	Patterns of conspecific brood parasitism in zebra finches. Animal Behaviour, 2010, 79, 1329-1337.	1.9	36
34	Long-term effects of early nutrition and environmental matching on developmental and personality traits in zebra finches. Animal Behaviour, 2017, 128, 103-115.	1.9	36
35	Heritability of Life Span Is Largely Sex Limited inDrosophila. American Naturalist, 2013, 182, 653-665.	2.1	33
36	Choosiness, a neglected aspect of preference functions: a review of methods, challenges and statistical approaches. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 171-182.	1.6	31

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37	Sexual imprinting on continuous variation: do female zebra finches prefer or avoid unfamiliar sons of their foster parents?. Journal of Evolutionary Biology, 2008, 21, 1274-1280.	1.7	30
38	What triggers colour change? Effects of background colour and temperature on the development of an alpine grasshopper. BMC Evolutionary Biology, 2015, 15, 168.	3.2	29
39	The mean strikes back: meanâ€“variance relationships and heteroscedasticity. Trends in Ecology and Evolution, 2012, 27, 474-475.	8.7	27
40	Collision between biological process and statistical analysis revealed by mean centring. Journal of Animal Ecology, 2020, 89, 2813-2824.	2.8	27
41	Nutrient enrichment increases invertebrate herbivory and pathogen damage in grasslands. Journal of Ecology, 2022, 110, 327-339.	4.0	25
42	Withinâ€population Yâ€linked genetic variation for lifespan in Drosophila melanogaster. Journal of Evolutionary Biology, 2015, 28, 1940-1947.	1.7	24
43	Morphological and colour morph clines along an altitudinal gradient in the meadow grasshopper Pseudochorthippus parallelus. PLoS ONE, 2017, 12, e0189815.	2.5	24
44	Novelty at second glance: a critical appraisal of the novel object paradigm based on meta-analysis. Animal Behaviour, 2021, 180, 123-142.	1.9	24
45	QTL linkage mapping of wing length in zebra finch using genomeâ€wide single nucleotide polymorphisms markers. Molecular Ecology, 2012, 21, 329-339.	3.9	23
46	Success and failure in replication of genotypeâ€“phenotype associations: How does replication help in understanding the genetic basis of phenotypic variation in outbred populations?. Molecular Ecology Resources, 2018, 18, 739-754.	4.8	23
47	HERITABILITY OF AND EARLY ENVIRONMENT EFFECTS ON VARIATION IN MATING PREFERENCES. Evolution; International Journal of Organic Evolution, 2010, 64, 998-1006.	2.3	22
48	Comparative Analysis of Genomic Repeat Content in Gomphocerine Grasshoppers Reveals Expansion of Satellite DNA and Helitrons in Species with Unusually Large Genomes. Genome Biology and Evolution, 2020, 12, 1180-1193.	2.5	22
49	Nest survival and productivity of the critically endangered Sociable Lapwing Vanellus gregarius. Ibis, 2006, 148, 489-502.	1.9	21
50	QTL and quantitative genetic analysis of beak morphology reveals patterns of standing genetic variation in an Estrildid finch. Molecular Ecology, 2012, 21, 3704-3717.	3.9	21
51	Sex ratio adjustments in common terns: influence of mate condition and maternal experience. Journal of Avian Biology, 2013, 44, 179-188.	1.2	20
52	How Individualized Niches Arise: Defining Mechanisms of Niche Construction, Niche Choice, and Niche Conformance. BioScience, 2022, 72, 538-548.	4.9	19
53	Assortative versus disassortative mating preferences of female zebra finches based on self-referent phenotype matching. Animal Behaviour, 2008, 76, 1927-1934.	1.9	18
54	Association mapping of morphological traits in wild and captive zebra finches: reliable within, but not between populations. Molecular Ecology, 2017, 26, 1285-1305.	3.9	18

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55	Linkedâ€read sequencing enables haplotypeâ€resolved resequencing at population scale. Molecular Ecology Resources, 2020, 20, 1311-1322.	4.8	18
56	Singing activity stimulates partner reproductive investment rather than increasing paternity success in zebra finches. Behavioral Ecology and Sociobiology, 2012, 66, 975-984.	1.4	17
57	Autosomal and X-Linked Additive Genetic Variation for Lifespan and Aging: Comparisons Within and Between the Sexes in Drosophila melanogaster. G3: Genes, Genomes, Genetics, 2016, 6, 3903-3911.	1.8	15
58	Correlates of male fitness in captive zebra finches - a comparison of methods to disentangle genetic and environmental effects. BMC Evolutionary Biology, 2011, 11, 327.	3.2	12
59	Protected habitats of Natura 2000 do not coincide with important diversity hotspots of arthropods in mountain grasslands. Insect Conservation and Diversity, 2019, 12, 329-338.	3.0	12
60	Greenâ€brown polymorphism in alpine grasshoppers affects body temperature. Ecology and Evolution, 2020, 10, 441-450.	1.9	12
61	Waterbird population estimates for a key staging site in Kazakhstan: a contribution to wetland conservation on the Central Asian flyway. Bird Conservation International, 2008, 18, 71-86.	1.3	11
62	Nonautosomal Genetic Variation in Carotenoid Coloration. American Naturalist, 2014, 184, 374-383.	2.1	11
63	Genome size variation affects song attractiveness in grasshoppers: Evidence for sexual selection against large genomes. Evolution; International Journal of Organic Evolution, 2014, 68, 3629-3635.	2.3	11
64	A prezygotic transmission distorter acting equally in female and male zebra finches Taeniopygia guttata. Molecular Ecology, 2015, 24, 3846-3859.	3.9	11
65	Conditional repeatability and the variance explained by reaction norm variation in random slope models. Methods in Ecology and Evolution, 2022, 13, 1214-1223.	5.2	11
66	Spatial analyses of two color polymorphisms in an alpine grasshopper reveal a role of smallâ€scale heterogeneity. Ecology and Evolution, 2018, 8, 7273-7284.	1.9	10
67	Once an optimist, always an optimist? Studying cognitive judgment bias in mice. Behavioral Ecology, 2022, 33, 775-788.	2.2	10
68	Transcriptome assembly for a colour-polymorphic grasshopper (Gomphocerus sibiricus) with a very large genome size. BMC Genomics, 2019, 20, 370.	2.8	9
69	Individuality meets plasticity: Endocrine phenotypes across male dominance rank acquisition in guinea pigs living in a complex social environment. Hormones and Behavior, 2021, 131, 104967.	2.1	9
70	Specificity of grouping behaviour: comparing colony sizes for the same seabird species in distant populations. Journal of Avian Biology, 2012, 43, 397-402.	1.2	7
71	Highâ€throughput sequencing and graphâ€based cluster analysis facilitate microsatellite development from a highly complex genome. Ecology and Evolution, 2016, 6, 5718-5727.	1.9	7
72	Genome-wide evidence supports mitochondrial relationships and pervasive parallel phenotypic evolution in open-habitat chats. Molecular Phylogenetics and Evolution, 2019, 139, 106568.	2.7	7

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73	Comparative analysis of the multivariate genetic architecture of morphological traits in three species of Gomphocerine grasshoppers. Heredity, 2020, 124, 367-382.	2.6	7
74	Evidence for morph-specific substrate choice in a green-brown polymorphic grasshopper. Behavioral Ecology, 2022, 33, 17-26.	2.2	7
75	Sperm velocity in a promiscuous bird across experimental media of different viscosities. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201031.	2.6	6
76	Simple inheritance of color and pattern polymorphism in the steppe grasshopper Chorthippus dorsatus. Heredity, 2021, 127, 66-78.	2.6	6
77	Hutchinsonâ€™s ecological niche for individuals. Biology and Philosophy, 2022, 37, .	1.4	6
78	Wader, gull and tern population estimates for a key breeding and stopover site in Central Kazakhstan. Bird Conservation International, 2010, 20, 186-199.	1.3	5
79	The green-brown polymorphism of the club-legged grasshopper Gomphocerus sibiricus is heritable and appears genetically simple. BMC Evolutionary Biology, 2020, 20, 63.	3.2	5
80	Community genomics: a communityâ€wide perspective on withinâ€species genetic diversity. American Journal of Botany, 2021, 108, 2108-2111.	1.7	5
81	Conditionâ€dependence and sexual ornamentation: Effects of immune challenges on a highly sexually dimorphic grasshopper. Insect Science, 2018, 25, 617-630.	3.0	4
82	Reply to â€˜It is time for an empirically informed paradigm shift in animal researchâ€™. Nature Reviews Neuroscience, 2020, 21, 661-662.	10.2	4
83	Direct and indirect genetic effects on reproductive investment in a grasshopper. Journal of Evolutionary Biology, 2019, 32, 331-342.	1.7	3
84	Comment on â€œBateman in Nature: Predation on Offspring Reduces the Potential for Sexual Selectionâ€. Science, 2013, 340, 549-549.	12.6	2
85	Erster Brutnachweis des Bindenkreuzschnabels (Loxia leucoptera) in Mitteleuropa. Journal Fur Ornithologie, 1992, 133, 197-202.	1.2	1
86	Technical Comment: Response to Camacho. Evolution; International Journal of Organic Evolution, 2016, 70, 1922-1922.	2.3	1
87	A population survey of the endangered White-headed Duck Oxyura leucocephala in Kazakhstan shows an apparently increasing Eastern population. Bird Study, 2019, 66, 111-120.	1.0	1