Michaela Hau

List of Publications by Year
in descending order

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74 papers	6,090 citations	81900 39 h-index	79698 73 g-index
75 all docs	75 docs citations	75 times ranked	5050 citing authors

#	Article	IF	Citations
1	Repeatability and heritability of exploratory behaviour in great tits from the wild. Animal Behaviour, 2002, 64, 929-938.	1.9	649
2	Realized heritability of personalities in the great tit (Parus major). Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 45-51.	2.6	503
3	Regulation of male traits by testosterone: implications for the evolution of vertebrate life histories. BioEssays, 2007, 29, 133-144.	2.5	478
4	Realized heritability and repeatability of risk-taking behaviour in relation to avian personalities. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 65-73.	2.6	359
5	Phenology, seasonal timing and circannual rhythms: towards a unified framework. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3113-3127.	4.0	276
6	Corticosterone, testosterone and life-history strategies of birds. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 3203-3212.	2.6	220
7	Evolutionary signals of selection on cognition from the great tit genome and methylome. Nature Communications, 2016, 7, 10474.	12.8	172
8	Hormone levels predict individual differences in reproductive success in a passerine bird. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2537-2545.	2.6	162
9	Association between DRD4 gene polymorphism and personality variation in great tits: a test across four wild populations. Molecular Ecology, 2010, 19, 832-843.	3.9	155
10	Endocrine mechanisms, behavioral phenotypes and plasticity: known relationships and open questions. Frontiers in Zoology, 2015, 12, S7.	2.0	151
11	Territorial aggression and hormones during the non-breeding season in a tropical bird. Hormones and Behavior, 2004, 45, 40-49.	2.1	149
12	Personality is associated with extrapair paternity in great tits, Parus major. Animal Behaviour, 2008, 76, 555-563.	1.9	143
13	Natural selection against a circadian clock gene mutation in mice. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 686-691.	7.1	123
14	Within seasons and among years: When are corticosterone levels repeatable?. Hormones and Behavior, 2011, 60, 559-564.	2.1	113
15	Corticosterone responses differ between lines of great tits (Parus major) selected for divergent personalities. General and Comparative Endocrinology, 2012, 175, 488-494.	1.8	110
16	Personality affects learning performance in difficult tasks in a sex-dependent way. Animal Behaviour, 2012, 83, 723-730.	1.9	106
17	Evolutionary genomics of animal personality. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 3991-4000.	4.0	101
18	Corticosterone levels reflect variation in metabolic rate, independent of â€˜stressâ€™. Scientific Reports, 2018, 8, 13020.	3.3	81

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19	REPRODUCTIVE SEASONALITY OF SEVEN NEOTROPICAL PASSERINE SPECIES. Condor, 2003, 105, 683.	1.6	77
20	Telomere attrition: metabolic regulation and signalling function?. Biology Letters, 2019, 15, 20180885.	2.3	76
21	Diel changes in plasma melatonin and corticosterone concentrations in tropical Nazca boobies (Sula) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	72
22	Initial reactivity and magnitude of the acute stress response associated with personality in wild great tits (Parus major). General and Comparative Endocrinology, 2013, 189, 96-104.	1.8	72
23	Stressful colours: corticosterone concentrations in a free-living songbird vary with the spectral composition of experimental illumination. Biology Letters, 2015, 11, 20150517.	2.3	68
24	Vocal Distinctiveness and Response to Conspecific Playback in the Spotted Antbird, a Neotropical Suboscine. Condor, 2002, 104, 387-394.	1.6	67
25	Corticosterone and brood abandonment in a passerine bird. Animal Behaviour, 2012, 84, 261-268.	1.9	66
26	Tropical field endocrinology: Ecology and evolution of testosterone concentrations in male birds. General and Comparative Endocrinology, 2008, 157, 241-248.	1.8	65
27	Baseline and stress-induced glucocorticoid concentrations are not repeatable but covary within individual great tits (Parus major). General and Comparative Endocrinology, 2014, 208, 154-163.	1.8	64
28	Macroevolutionary Patterning in Glucocorticoids Suggests Different Selective Pressures Shape Baseline and Stress-Induced Levels. American Naturalist, 2019, 193, 866-880.	2.1	64
29	Radiotelemetry reveals variation in fever and sickness behaviours with latitude in a freeâ€living passerine. Functional Ecology, 2010, 24, 813-823.	3.6	63
30	Repeated stressors in adulthood increase the rate of biological ageing. Frontiers in Zoology, 2015, 12, 4.	2.0	63
31	Stress, Metabolism, and Antioxidants in Two Wild Passerine Bird Species. Physiological and Biochemical Zoology, 2008, 81, 463-472.	1.5	59
32	Baseline and stress-induced corticosterone levels across birds and reptiles do not reflect urbanization levels. , 2020, 8, coz110.		57
33	Correlated response to selection of testosterone levels and immunocompetence in lines selected for avian personality. Animal Behaviour, 2011, 81, 1055-1061.	1.9	56
34	Strong association between corticosterone and temperature dependent metabolic rate in individual zebra finches. Journal of Experimental Biology, 2017, 220, 4426-4431.	1.7	55
35	Increased glucocorticoid concentrations in early life cause mitochondrial inefficiency and short telomeres. Journal of Experimental Biology, 2020, 223, .	1.7	53
36	Anticipating Spring: Wild Populations of Great Tits (Parus major) Differ in Expression of Key Genes for Photoperiodic Time Measurement. PLoS ONE, 2012, 7, e34997.	2.5	51

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37	Flexible clock systems: adjusting the temporal programme. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160254.	4.0	49
38	Testosterone reduces responsiveness to nociceptive stimuli in a wild bird. Hormones and Behavior, 2004, 46, 165-170.	2.1	48
39	Host dispersal shapes the population structure of a tickâ€borne bacterial pathogen. Molecular Ecology, 2020, 29, 485-501.	3.9	43
40	Effect of Polar Day on Plasma Profiles of Melatonin, Testosterone, and Estradiol in High-Arctic Lapland Longspurs. General and Comparative Endocrinology, 2002, 126, 101-112.	1.8	42
41	HormoneBase, a population-level database of steroid hormone levels across vertebrates. Scientific Data, 2018, 5, 180097.	5.3	42
42	Risk-averse personalities have a systemically potentiated neuroendocrine stress axis: A multilevel experiment in Parus major. Hormones and Behavior, 2017, 93, 99-108.	2.1	41
43	Timing as a sexually selected trait: the right mate at the right moment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160249.	4.0	41
44	Costs of sleeping in: circadian rhythms influence cuckoldry risk in a songbird. Functional Ecology, 2015, 29, 1300-1307.	3.6	40
45	Melatonin delays clutch initiation in a wild songbird. Biology Letters, 2012, 8, 330-332.	2.3	34
46	Does urban life change blood oxidative status in birds?. Journal of Experimental Biology, 2014, 217, 2994-7.	1.7	33
47	Food cues and gonadal development in neotropical spotted antbirds (Hylophylax naevioides). Journal of Ornithology, 2005, 146, 332-337.	1.1	30
48	Are the specialized bird ticks, <scp>I</scp>xodes arboricola and I. frontalis, competent vectors for <scp>B</scp>orrelia burgdorferi sensu lato?. Environmental Microbiology, 2014, 16, 1081-1089.	3.8	30
49	Metabolic Scaling of Stress Hormones in Vertebrates. Integrative and Comparative Biology, 2018, 58, 729-738.	2.0	27
50	Connecting the data landscape of longâ€term ecological studies: The SPIâ€Birds data hub. Journal of Animal Ecology, 2021, 90, 2147-2160.	2.8	25
51	Male but not female zebra finches with high plasma corticosterone have lower survival. Functional Ecology, 2018, 32, 713-721.	3.6	24
52	Temporal dynamics of the HPA axis linked to exploratory behavior in a wild European songbird (Parus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.8	22
53	Effects of developmental conditions on glucocorticoid concentrations in adulthood depend on sex and foraging conditions. Hormones and Behavior, 2017, 93, 175-183.	2.1	21
54	Do Seasonal Glucocorticoid Changes Depend on Reproductive Investment? A Comparative Approach in Birds. Integrative and Comparative Biology, 2018, 58, 739-750.	2.0	21

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55	Plastic endocrine regulation of year-round territorial aggression in tropical male spotted antbirds. General and Comparative Endocrinology, 2011, 172, 305-313.	1.8	20
56	Heterogeneous selection on exploration behavior within and among West European populations of a passerine bird. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	20
57	Quantifying Glucocorticoid Plasticity Using Reaction Norm Approaches: There Still is So Much to Discover!. Integrative and Comparative Biology, 2022, 62, 58-70.	2.0	20
58	Enzymatic antioxidants but not baseline glucocorticoids mediate the reproductionâ€“survival trade-off in a wild bird. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, .	2.6	19
59	Inefficient co-feeding transmission of Borrelia afzelii in two common European songbirds. Scientific Reports, 2017, 7, 39596.	3.3	18
60	Female variation in allocation of steroid hormones, antioxidants and fatty acids: a multilevel analysis in a wild passerine bird. Journal of Avian Biology, 2019, 50, .	1.2	18
61	Novelty induces behavioural and glucocorticoid responses in a songbird artificially selected for divergent personalities. Animal Behaviour, 2017, 130, 221-231.	1.9	17
62	Inferring Whole-Organism Metabolic Rate From Red Blood Cells in Birds. Frontiers in Physiology, 2021, 12, 691633.	2.8	16
63	Effects of El NiÃ±o and La NiÃ±a Southern Oscillation events on the adrenocortical responses to stress in birds of the Galapagos Islands. General and Comparative Endocrinology, 2018, 259, 20-33.	1.8	15
64	Bird populations most exposed to climate change are less sensitive to climatic variation. Nature Communications, 2022, 13, 2112.	12.8	15
65	Corticosterone implants make stress hyporesponsive birds. Journal of Experimental Biology, 2018, 221, .	1.7	14
66	Glucocorticoid-temperature association is shaped by foraging costs in individual zebra finches. Journal of Experimental Biology, 2018, 221, .	1.7	13
67	IUCN Conservation Status Does Not Predict Glucocorticoid Concentrations in Reptiles and Birds. Integrative and Comparative Biology, 2018, 58, 800-813.	2.0	13
68	Exploratory behavior undergoes genotypeâ€“age interactions in a wild bird. Ecology and Evolution, 2019, 9, 8987-8994.	1.9	13
69	Epigenetics of Animal Personality: DNA Methylation Cannot Explain the Heritability of Exploratory Behavior in a Songbird. Integrative and Comparative Biology, 2020, 60, 1517-1530.	2.0	12
70	Life history and environment predict variation in testosterone across vertebrates. Evolution; International Journal of Organic Evolution, 2021, 75, 1003-1010.	2.3	11
71	Glucocorticoids in a warming world: Do they help birds to cope with high environmental temperatures?. Hormones and Behavior, 2022, 142, 105178.	2.1	10
72	Early nighttime testosterone peaks are correlated with GnRH-induced testosterone in a diurnal songbird. General and Comparative Endocrinology, 2021, 312, 113861.	1.8	6

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73	Sex steroids modulate circadian behavioral rhythms in captive animals, but does this matter in the wild?. Hormones and Behavior, 2021, 128, 104900.	2.1	5
74	Species-Specific Means and Within-Species Variance in Glucocorticoid Hormones and Speciation Rates in Birds. Integrative and Comparative Biology, 2018, 58, 763-776.	2.0	2