Heinz Richner

List of Publications by Year
in descending order

145 papers	7,600 citations	34105 52 h-index	60623 81 g-index
148 all docs	148 docs citations	148 times ranked	4272 citing authors

#	Article	IF	Citations
1	Effect of an Ectoparasite on Reproduction in Great Tits. Journal of Animal Ecology, 1993, 62, 703.	2.8	290
2	The Design of Artificial Nestboxes for the Study of Secondary Hole-Nesting Birds: A Review of Methodological Inconsistencies and Potential Biases. Acta Ornithologica, 2010, 45, 1-26.	0.5	274
3	Paternal investment affects prevalence of malaria.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 1192-1194.	7.1	233
4	Begging, food provisioning, and nestling competition in great tit broods infested with ectoparasites. Behavioral Ecology, 1996, 7, 127-131.	2.2	214
5	Sexual dimorphism in susceptibility to parasites and cell-mediated immunity in great tit nestlings. Journal of Animal Ecology, 2003, 72, 839-845.	2.8	197
6	Immunocompetence of nestling great tits in relation to rearing environment and parentage. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 2315-2322.	2.6	159
7	Host Responses to Ectoparasites: Food Compensation by Parent Blue Tits. Oikos, 1997, 78, 557.	2.7	145
8	Differential effects of a parasite on ornamental structures based on melanins and carotenoids. Behavioral Ecology, 2002, 13, 401-407.	2.2	140
9	Effect of an ectoparasite on lay date, nest-site choice, desertion, and hatching success in the great tit (Pants major). Behavioral Ecology, 1994, 5, 130-134.	2.2	139
10	Begging signals and biparental care: nestling choice between parental feeding locations. Animal Behaviour, 1998, 55, 215-222.	1.9	133
11	Sperm of colourful males are better protected against oxidative stress. Ecology Letters, 2010, 13, 213-222.	6.4	131
12	Offspring sex ratio is related to male body size in the great tit (Parus major). Behavioral Ecology, 1999, 10, 68-72.	2.2	129
13	Habitat-Specific Growth and Fitness in Carrion Crows (Corvus corone corone). Journal of Animal Ecology, 1989, 58, 427.	2.8	125
14	The Effect of Extra Food on Fitness in Breeding Carrion Crows. Ecology, 1992, 73, 330-335.	3.2	124
15	Life history and fitness consequences of ectoparasites. Journal of Animal Ecology, 2004, 73, 216-226.	2.8	124
16	The quantitative genetic basis of offspring solicitation and parental response in a passerine bird with biparental care. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 2127-2132.	2.6	122
17	Brood size, sibling competition, and the cost of begging in great tits (Parus major). Behavioral Ecology, 2003, 14, 457-462.	2.2	122
18	Host condition and host immunity affect parasite fitness in a bird?ectoparasite system. Functional Ecology, 2007, 21, 372-378.	3.6	117

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19	Clutch size and malaria resistance. Nature, 1996, 381, 565-565.	27.8	114
20	Of great tits and fleas: sleep baby sleep . . .. Animal Behaviour, 1996, 52, 1087-1092.	1.9	113
21	Predation risk affects offspring growth via maternal effects. Functional Ecology, 2011, 25, 878-888.	3.6	113
22	Barn owl (Tyto alba) siblings vocally negotiate resources. Proceedings of the Royal Society B: Biological Sciences, 2000, 267, 459-463.	2.6	112
23	Proximate mechanisms of variation in the carotenoid-based plumage coloration of nestling great tits (Parus major L.). Journal of Evolutionary Biology, 2003, 16, 91-100.	1.7	109
24	Benefits of induced host responses against an ectoparasite. Proceedings of the Royal Society B: Biological Sciences, 1998, 265, 51-56.	2.6	104
25	Ectoparasiteâ€“modulated deposition of maternal androgens in great tit eggs. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 1371-1375.	2.6	102
26	Maternal Modulation of Natal Dispersal in a Passerine Bird: An Adaptive Strategy to Cope with Parasitism?. American Naturalist, 2007, 169, 87-93.	2.1	92
27	On Host Life-History Response to Parasitism. Oikos, 1996, 75, 317.	2.7	89
28	Maternal yolk testosterone does not modulate parasite susceptibility or immune function in great tit nestlings. Journal of Animal Ecology, 2005, 74, 675-682.	2.8	86
29	Ectoparasite affects choice and use of roost sites in the great tit, Parus major. Animal Behaviour, 1994, 47, 895-898.	1.9	81
30	Communal life: honest signaling and the recruitment center hypothesis. Behavioral Ecology, 1996, 7, 115-118.	2.2	78
31	Parasite-induced maternal response in a natural bird population. Journal of Animal Ecology, 2002, 71, 247-252.	2.8	78
32	Which chick is tasty to parasites? The importance of host immunology vs. parasite life history. Journal of Animal Ecology, 2003, 72, 75-81.	2.8	78
33	Parasitism and developmental plasticity in Alpine swift nestlings. Journal of Animal Ecology, 2003, 72, 633-639.	2.8	77
34	Parasites shape the optimal investment in immunity. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1773-1777.	2.6	77
35	Female-biased mortality in experimentally parasitized Alpine Swift Apus melba nestlings. Functional Ecology, 2005, 19, 405-413.	3.6	75
36	Ectoparasitism and the Trade-Off between Current and Future Reproduction. Oikos, 1999, 86, 535.	2.7	74

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37	Carotenoidâ€Based Plumage Colors and Immune Function: Is There a Tradeâ€Off for Rare Carotenoids?. American Naturalist, 2007, 169, S137-S144.	2.1	74
38	Melanin-based colorations signal strategies to cope with poor and rich environments. Behavioral Ecology and Sociobiology, 2008, 62, 507-519.	1.4	74
39	Bird-Ectoparasite Interactions, Nest Humidity, and Ectoparasite Community Structure. Ecology, 2000, 81, 958.	3.2	73
40	Parentâ€“offspring conflict and the genetics of offspring solicitation and parental response. Animal Behaviour, 2001, 62, 395-407.	1.9	73
41	Ectoparasite infestation and sex-biased local recruitment of hosts. Nature, 1999, 400, 63-65.	27.8	71
42	Phenotypic correlates of dominance in carrion crows and their effects on access to food. Animal Behaviour, 1989, 38, 606-612.	1.9	70
43	Is the Information Center Hypothesis a Flop?. Advances in the Study of Behavior, 1995, 24, 1-45.	1.6	70
44	Isolation and characterization of 16 microsatellite loci in the Great Tit Parus major. Molecular Ecology Notes, 2003, 3, 520-522.	1.7	66
45	Carotenoid-based colour expression is determined early in nestling life. Oecologia, 2003, 137, 148-152.	2.0	63
46	Sperm morphology, swimming velocity, and longevity in the house sparrow Passer domesticus. Behavioral Ecology and Sociobiology, 2010, 64, 557-565.	1.4	63
47	Horizontal Transmission and Reproductive Rates of Hen Fleas in Great Tit Nests. Journal of Animal Ecology, 1996, 65, 474.	2.8	62
48	Carotenoid-based nestling colouration and parental favouritism in the great tit. Oecologia, 2005, 143, 477-482.	2.0	61
49	Behavioural responses to ectoparasites: time-budget adjustments and what matters to Blue Tits Parus caeruleus infested by fleas. Ibis, 2002, 144, 461-469.	1.9	60
50	LONG-TERM LIFE-HISTORY CONSEQUENCES OF ECTOPARASITE-MODULATED GROWTH AND DEVELOPMENT. Ecology, 2004, 85, 2018-2026.	3.2	59
51	Clutch size and malarial parasites in female great tits. Behavioral Ecology, 1997, 8, 148-152.	2.2	57
52	EFFECTS OF COMMON ORIGIN AND COMMON ENVIRONMENT ON NESTLING PLUMAGE COLORATION IN THE GREAT TIT (PARUS MAJOR). Evolution; International Journal of Organic Evolution, 2003, 57, 144-150.	2.3	55
53	Covariation between egg size and rearing condition determines offspring quality: an experiment with the alpine swift. Oecologia, 2002, 132, 231-234.	2.0	54
54	GENETIC, ENVIRONMENTAL, AND CONDITION-DEPENDENT EFFECTS ON FEMALE AND MALE ORNAMENTATION IN THE BARN OWL TYTO ALBA. Evolution; International Journal of Organic Evolution, 1998, 52, 1451-1460.	2.3	52

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55	Navigation in a cup: chick positioning in great tit, Parus major, nests. Animal Behaviour, 2004, 68, 941-948.	1.9	52
56	Dissecting Carotenoid from Structural Components of Carotenoidâ€Based Coloration: A Field Experiment with Great Tits (Parus major). American Naturalist, 2010, 176, 55-62.	2.1	52
57	DENSITY-DEPENDENT PROCESSES IN THE POPULATION DYNAMICS OF A BIRD ECTOPARASITECERATOPHYLLUS GALLINAE. Ecology, 1999, 80, 1267-1277.	3.2	51
58	Offspring social network structure predicts fitness in families. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4914-4922.	2.6	51
59	BIRDâ€“ECTOPARASITE INTERACTIONS, NEST HUMIDITY, AND ECTOPARASITE COMMUNITY STRUCTURE. Ecology, 2000, 81, 958-968.	3.2	50
60	Variation in clutch size in relation to nest size in birds. Ecology and Evolution, 2014, 4, 3583-3595.	1.9	49
61	Immune Activation Reduces Sperm Quality in the Great Tit. PLoS ONE, 2011, 6, e22221.	2.5	48
62	Interspecific variation in the relationship between clutch size, laying date and intensity of urbanization in four species of holeâ€nesting birds. Ecology and Evolution, 2016, 6, 5907-5920.	1.9	47
63	Dynamics of Hen Flea Ceratophyllus gallinae Subpopulations in Blue Tit Nests. Journal of Insect Behavior, 1999, 12, 159-174.	0.7	46
64	Long-term effects of early parasite exposure on song duration and singing strategy in great tits. Behavioral Ecology, 2009, 20, 265-270.	2.2	43
65	Ultraviolet reflectance of plumage for parentâ€“offspring communication in the great tit (Parus) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	41
66	When bats are boxing: aggressive behaviour and communication in male Seba's short-tailed fruit bat. Animal Behaviour, 2014, 98, 149-156.	1.9	41
67	Additive effects of ectoparasites over reproductive attempts in the longâ€lived alpine swift. Journal of Animal Ecology, 2004, 73, 1080-1088.	2.8	40
68	Helpersâ€atâ€theâ€nest in Carrion Crows Corvus corone corone. Ibis, 1990, 132, 105-108.	1.9	40
69	Reproductive effort transiently reduces antioxidant capacity in a wild bird. Behavioral Ecology, 2011, 22, 1218-1226.	2.2	38
70	Nestling begging intensity and parental effort in relation to prelaying carotenoid availability. Behavioral Ecology, 2007, 19, 108-115.	2.2	36
71	Clutchâ€size variation in Western Palaearctic secondary holeâ€nesting passerine birds in relation to nest box design. Methods in Ecology and Evolution, 2014, 5, 353-362.	5.2	36
72	Cellular immune response, stress resistance and competitiveness in nestling great tits in relation to maternally transmitted carotenoids. Functional Ecology, 2007, 21, 335-343.	3.6	35

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73	Nestling erythrocyte resistance to oxidative stress predicts fledging success but not local recruitment in a wild bird. Biology Letters, 2013, 9, 20120888.	2.3	35
74	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 August 2011â€“30 September 2011. Molecular Ecology Resources, 2012, 12, 185-189.	4.8	32
75	Genetic, Environmental, and Condition-Dependent Effects on Female and Male Ornamentation in the Barn Owl Tyto alba. Evolution; International Journal of Organic Evolution, 1998, 52, 1451.	2.3	31
76	Sexâ€related effects of maternal egg investment on offspring in relation to carotenoid availability in the great tit. Journal of Animal Ecology, 2008, 77, 74-82.	2.8	28
77	Differential food allocation by male and female great tit, Parus major, parents: are parents or offspring in control?. Animal Behaviour, 2008, 75, 1563-1569.	1.9	28
78	Differential effects of vitamins E and C and carotenoids on growth, resistance to oxidative stress, fledging success and plumage colouration in wild great tits. Journal of Experimental Biology, 2014, 217, 1478-84.	1.7	28
79	Fleas, parental care, and transgenerational effects on tick load in the great tit. Behavioral Ecology, 2008, 19, 1225-1234.	2.2	27
80	Maternal steroids in egg yolk as a pathway to translate predation risk to offspring: Experiments with great tits. General and Comparative Endocrinology, 2012, 176, 211-214.	1.8	27
81	Immune response, oxidative stress and dietary antioxidants in great tit nestlings. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 179, 192-196.	1.8	27
82	The multivariate egg: quantifying within- and among-clutch correlations between maternally derived yolk immunoglobulins and yolk androgens using multivariate mixed models. Oecologia, 2014, 174, 631-638.	2.0	26
83	Yolk carotenoids increase fledging success in great tit nestlings. Oecologia, 2014, 176, 371-377.	2.0	26
84	Oxidative status and reproductive effort of great tits in a handicapping experiment. Behavioral Ecology, 2015, 26, 747-754.	2.2	26
85	SPATIAL SCALE OF LOCAL BREEDING HABITAT QUALITY AND ADJUSTMENT OF BREEDING DECISIONS. Ecology, 2008, 89, 1436-1444.	3.2	25
86	Physiological responses to increased brood size and ectoparasite infestation: Adult great tits favour self-maintenance. Physiology and Behavior, 2015, 141, 127-134.	2.1	25
87	LARVAL COMPETITION AFFECTS THE LIFE HISTORIES AND DISPERSAL BEHAVIOR OF AN AVIAN ECTOPARASITE. Ecology, 2002, 83, 935-945.	3.2	24
88	On the Equivalence of Host Local Adaptation and Parasite Maladaptation: An Experimental Test. American Naturalist, 2012, 179, 270-281.	2.1	24
89	Differential effects of yolk hormones on maternal and paternal contribution to parental care. Animal Behaviour, 2008, 75, 1989-1994.	1.9	23
90	Resistance to oxidative stress shows low heritability and high common environmental variance in a wild bird. Journal of Evolutionary Biology, 2014, 27, 1990-2000.	1.7	23

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91	Potential Impact of Sexual Transmission on Ebola Virus Epidemiology: Sierra Leone as a Case Study. PLoS Neglected Tropical Diseases, 2016, 10, e0004676.	3.0	23
92	Winter feeding strategies of individually marked herons. Animal Behaviour, 1986, 34, 881-886.	1.9	22
93	Carotenoidâ€induced maternal effects interact with ectoparasite burden and brood size to shape the tradeâ€off between growth and immunity in nestling great tits. Functional Ecology, 2008, 22, 854-863.	3.6	22
94	Effects of nest predation risk on female incubation behavior and offspring growth in great tits. Behavioral Ecology and Sociobiology, 2015, 69, 977-989.	1.4	22
95	Analysis of genetic parentage in the tawny owl (Strix aluco) reveals extra-pair paternity is low. Journal of Ornithology, 2007, 148, 113-116.	1.1	20
96	Alternative reproductive tactics, sperm mobility and oxidative stress in Carollia perspicillata (Sebaâ€™s) Tj ETQq0 0 0 rgBT /Overlock 10	1.4	20
97	On the functional significance of masking behaviour in sea urchins-an experiment with Paracentrotus lividus. Marine Ecology - Progress Series, 2000, 205, 307-308.	1.9	20
98	Does loss of mass during breeding correlate with reproductive success? A study on Blue Tits Parus caeruleus. Ibis, 1998, 140, 210-213.	1.9	19
99	Parasites as mediators of heterozygosityâ€“fitness correlations in the Great Tit (Parus major). Journal of Evolutionary Biology, 2012, 25, 584-590.	1.7	19
100	Induced responses of nestling great tits reduce hen flea reproduction. Oikos, 2003, 102, 67-74.	2.7	18
101	Adoption as an offspring strategy to reduce ectoparasite exposure. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, S114-6.	2.6	18
102	Low but contrasting neutral genetic differentiation shaped by winter temperature in European great tits. Biological Journal of the Linnean Society, 2016, 118, 668-685.	1.6	17
103	Parental influence on sibling rivalry in great tit, Parus major, nests. Animal Behaviour, 2007, 74, 977-983.	1.9	16
104	The adaptive function of hatching asynchrony: an experimental study in great tits. Animal Behaviour, 2013, 86, 567-576.	1.9	16
105	Evolution of avian roosting behaviour: a test of the information centre hypothesis and of a critical assumption. Animal Behaviour, 1991, 41, 433-438.	1.9	15
106	Parasitism, developmental plasticity and bilateral asymmetry of wing feathers in alpine swift,Apus melba, nestlings. Oikos, 2004, 106, 317-323.	2.7	15
107	Maternally transmitted parasite defence can be beneficial in the absence of parasites. Oikos, 2008, 117, 223-230.	2.7	14
108	Electroejaculation and semen buffer evaluation in the microbat Carollia perspicillata. Theriogenology, 2015, 83, 904-910.	2.1	14

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109	An evaluation of different methods for assessing eggshell pigmentation and pigment concentration using great tit eggs. Journal of Avian Biology, 2015, 46, 597-607.	1.2	14
110	Transgenerational immunity in a birdâ€“ectoparasite system: do maternally transferred antibodies affect parasite fecundity or the offspring's susceptibility to fleas?. Ibis, 2009, 151, 160-170.	1.9	13
111	Effect of sibling competition and male carotenoid supply on offspring condition and oxidative stress. Behavioral Ecology, 2010, 21, 1271-1277.	2.2	13
112	Density-Dependent Processes in the Population Dynamics of a Bird Ectoparasite Ceratophyllus gallinae. Ecology, 1999, 80, 1267.	3.2	12
113	Females of carotenoid-supplemented males are more faithful and produce higher quality offspring. Behavioral Ecology, 2008, 19, 1165-1172.	2.2	12
114	Partial incubation and its function in great tits (Parus major)â€”an experimental test. Behavioral Ecology, 2013, 24, 643-649.	2.2	12
115	Interval singing links to phenotypic quality in a songbird. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12763-12767.	7.1	12
116	Predator-Specific Effects on Incubation Behaviour and Offspring Growth in Great Tits. PLoS ONE, 2015, 10, e0121088.	2.5	11
117	A parasiteâ€induced maternal effect can reduce survival times of fleas feeding on great tit nestlings. Oikos, 2008, 117, 1209-1217.	2.7	10
118	AN EXPERIMENTAL STUDY ON THE INFLUENCE OF TICK INFESTATIONS ON NESTLING PERFORMANCE IN GREAT TITS (PARUS MAJOR). Auk, 2008, 125, 915-922.	1.4	9
119	Preparing Offspring for a Dangerous World: Potential Costs of Being Wrong. PLoS ONE, 2012, 7, e48840.	2.5	9
120	Modification of sperm quality after sexual abstinence in Seba's short-tailed bat,Carollia perspicillata. Journal of Experimental Biology, 2016, 219, 1363-1368.	1.7	9
121	Do parasites and antioxidant availability affect begging behaviour, growth rate and resistance to oxidative stress?. Journal of Evolutionary Biology, 2018, 31, 904-913.	1.7	9
122	Gene flow and adaptive potential in a generalist ectoparasite. BMC Evolutionary Biology, 2018, 18, 99.	3.2	9
123	Brood Reduction via Intra-clutch Variation in Testosterone - An Experimental Test in the Great Tit. PLoS ONE, 2013, 8, e56672.	2.5	8
124	Increased predation risk on mothers affects survival of parasites feeding on the offspring. Animal Behaviour, 2011, 81, 1071-1075.	1.9	7
125	Independent sources of condition dependency and multiple pathways determine a composite trait: lessons from carotenoidâ€based plumage colouration. Journal of Evolutionary Biology, 2013, 26, 635-646.	1.7	7
126	Heterozygosity is linked to the costs of immunity in nestling great tits (Parus major). Ecology and Evolution, 2013, 3, 4815-4827.	1.9	7

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127	Parasites suppress immune-enhancing effect of methionine in nestling great tits. Oecologia, 2015, 177, 213-221.	2.0	7
128	Effects of an earlyâ€life paraquat exposure on adult resistance to oxidative stress, plumage colour and sperm performance in a wild bird. Journal of Animal Ecology, 2018, 87, 1137-1148.	2.8	7
129	Influence of host profitability and microenvironmental conditions on parasite specialization on a main and an alternative hosts. Journal of Evolutionary Biology, 2011, 24, 1212-1225.	1.7	6
130	An experimental test of predatorâ€“parasite interaction in a passerine bird. Oikos, 2012, 121, 1691-1701.	2.7	6
131	Effects of increased begging and vitamin E supplements on oxidative stress and fledging probability. Behavioral Ecology, 2015, 26, 465-471.	2.2	6
132	Assessment of expected performance and Zahavi's notion of signal. Animal Behaviour, 1993, 45, 399-401.	1.9	5
133	Relative fitness of a generalist parasite on two alternative hosts: a crossâ€infestation experiment to test host specialization of the hen flea Ceratophyllus gallinaeÂ(Schrank). Journal of Evolutionary Biology, 2016, 29, 1091-1101.	1.7	5
134	Higher in vitro resistance to oxidative stress in extraâ€pair offspring. Journal of Evolutionary Biology, 2011, 24, 2525-2530.	1.7	4
135	Parasite- and predator-induced maternal effects in the great tit (Parus major). Behavioral Ecology, 2014, 25, 1105-1114.	2.2	4
136	Effect of an introduced parasite in natural and anthropogenic habitats on the breeding success of the endemic little vermilion flycatcher Pyrocephalus nanus in the GalÃ¡pagos. Journal of Avian Biology, 2020, 51, .	1.2	4
137	Seabird colonies and the appeal of the Information Center Hypothesis. Trends in Ecology and Evolution, 1994, 9, 25.	8.7	3
138	Ectoparasite reproductive performance when host condition varies. Parasitology Research, 2012, 111, 1193-1203.	1.6	3
139	Interaction of climate change with effects of conspecific and heterospecific density on reproduction. Oikos, 2020, 129, 1807-1819.	2.7	3
140	Isolation and characterization of 23 microsatellite loci in the hen flea Ceratophyllus gallinae. Molecular Ecology Notes, 2003, 3, 215-217.	1.7	2
141	A flea-induced pre-hatching maternal effect modulates tick feeding behaviour on great tit nestlings. Functional Ecology, 2007, 22, 071018050741001-???.	3.6	2
142	Temporal and spatial patterns in the abundance of wintering Redâ€breasted Mergansers Mergus serrator in an estuary. Ibis, 1988, 130, 73-78.	1.9	2
143	EFFECTS OF COMMON ORIGIN AND COMMON ENVIRONMENT ON NESTLING PLUMAGE COLORATION IN THE GREAT TIT (PARUS MAJOR). Evolution; International Journal of Organic Evolution, 2003, 57, 144.	2.3	1
144	Reproductive Behavior and Parasites: Vertebrates. , 2019, , 727-731.		0

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145	Prosody Predicts Contest Outcome in Non-Verbal Dialogs. PLoS ONE, 2016, 11, e0166953.	2.5	0