

# Zoltan Barta

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

4,428  
citations

81889

39  
h-index

123420

61  
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131  
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131  
docs citations

131  
times ranked

4361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Range-wide phylogeography of the flightless steppe beetle <i>Lethrus apterus</i> (Geotrupidae) reveals recent arrival to the Pontic Steppes from the west. <i>Scientific Reports</i> , 2022, 12, 5069.	3.3	2
2	Seasonal variation of genotypes and reproductive plasticity in a facultative clonal freshwater invertebrate animal ( <i>Hydra oligactis</i> ) living in a temperate lake. <i>Ecology and Evolution</i> , 2022, 12, .	1.9	2
3	Social groups with diverse personalities mitigate physiological stress in a songbird. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20203092.	2.6	3
4	Trends in demography, genetics, and social structure of Przewalski's horses in the Hortobagy National Park, Hungary over the last 22 years. <i>Global Ecology and Conservation</i> , 2021, 25, e01407.	2.1	8
5	Sex-specific signalling of individual personality by a mutual plumage ornament in a passerine. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1.	1.4	4
6	Phenotypic plasticity rather than genotype drives reproductive choices in <i>Hydra</i> populations. <i>Molecular Ecology</i> , 2021, 30, 1206-1222.	3.9	11
7	Experimental manipulation of body size alters life history in hydra. <i>Ecology Letters</i> , 2021, 24, 728-738.	6.4	7
8	Draft genome of a biparental beetle species, <i>Lethrus apterus</i> . <i>BMC Genomics</i> , 2021, 22, 301.	2.8	0
9	Inotocin, a potential modulator of reproductive behaviours in a biparental beetle, <i>Lethrus apterus</i> . <i>Journal of Insect Physiology</i> , 2021, 132, 104253.	2.0	4
10	Conservation biology research priorities for 2050: A Central-Eastern European perspective. <i>Biological Conservation</i> , 2021, 264, 109396.	4.1	8
11	Regulatory modules of human thermogenic adipocytes: functional genomics of large cohort and Meta-analysis derived marker-genes. <i>BMC Genomics</i> , 2021, 22, 886.	2.8	2
12	Seasonal changes in immune response and reproductive investment in a biparental beetle. <i>Journal of Insect Physiology</i> , 2020, 121, 104000.	2.0	3
13	Differential movement and activity patterns of sexes in a biparental beetle during the reproductive season. <i>Ecological Entomology</i> , 2020, 45, 1504-1508.	2.2	2
14	Behavioural flexibility and reputation formation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201758.	2.6	5
15	Environmental variability, reliability of information and the timing of migration. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200622.	2.6	22
16	Colony size, nestmate density and social history shape behavioural variation in <i>Formica fusca</i> colonies. <i>Ethology</i> , 2020, 126, 727-734.	1.1	1
17	Consequences of rapid development due to cohort splitting: just how costly is to hurry?. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	4
18	Size-dependent investment in tusk length, testis size and sperm length in a biparental geotrupid beetle. <i>Journal of Zoology</i> , 2019, 309, 106-113.	1.7	4

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19	Phylogenetic relationships in the genus <i>Lethrus</i> (Coleoptera: Geotrupidae) reveal contrasting evolutionary history in Europe. <i>Systematic Entomology</i> , 2019, 44, 899-910.	3.9	3
20	Personality and social foraging tactic use in free-living Eurasian tree sparrows ( <i>Passer montanus</i> ). <i>Behavioral Ecology</i> , 2019, 30, 894-903.	2.2	8
21	Changing Migratory Behaviors and Climatic Responsiveness in Birds. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	7
22	Longevity and life history coevolve with oxidative stress in birds. <i>Functional Ecology</i> , 2019, 33, 152-161.	3.6	43
23	ANALYSIS OF HABITAT USE, ACTIVITY, AND BODY CONDITION SCORES OF PRZEWALSKI'S HORSES IN HORTOBAGY NATIONAL PARK, HUNGARY. <i>Nature Conservation Research</i> , 2019, 4, .	1.5	5
24	Antibacterial immune functions of subadults and adults in a semelparous spider. <i>PeerJ</i> , 2019, 7, e7475.	2.0	4
25	Spatio-temporal structure and reproductive success in a Rook ( <i>Corvus frugilegus</i> ) colony. <i>Acta Zoologica Academiae Scientiarum Hungaricae</i> , 2019, 65, 31-43.	0.5	1
26	Willingness to initiate a fight but not contest behaviour depends on intruder size in <i>Lethrus apterus</i> (Geotrupidae). <i>Behavioural Processes</i> , 2018, 149, 65-71.	1.1	9
27	Demographic causes of adult sex ratio variation and their consequences for parental cooperation. <i>Nature Communications</i> , 2018, 9, 1651.	12.8	57
28	Reproductive mode, stem cells and regeneration in a freshwater cnidarian with postreproductive senescence. <i>Functional Ecology</i> , 2018, 32, 2497-2508.	3.6	12
29	Personality assortative female mating preferences in a songbird. <i>Behaviour</i> , 2018, 155, 481-503.	0.8	15
30	Sex-dependent immune response in a semelparous spider. <i>Die Naturwissenschaften</i> , 2018, 105, 39.	1.6	7
31	Resource allocation and post-reproductive degeneration in the freshwater cnidarian <i>Hydra oligactis</i> (Pallas, 1766). <i>Zoology</i> , 2017, 120, 110-116.	1.2	14
32	Pace of life and behaviour: rapid development is linked with increased activity and voracity in the wolf spider <i>Pardosa agrestis</i> . <i>Animal Behaviour</i> , 2017, 126, 145-151.	1.9	16
33	Life history traits and previous exposure predict resistance to UV irradiation in the freshwater cnidarian <i>Hydra oligactis</i> . <i>Invertebrate Biology</i> , 2017, 136, 217-227.	0.9	4
34	Parental cooperation in a changing climate: fluctuating environments predict shifts in care division. <i>Global Ecology and Biogeography</i> , 2017, 26, 347-358.	5.8	54
35	The effects of adult sex ratio and density on parental care in <i>Lethrus apterus</i> (Coleoptera, Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.9	13
36	<i>Candida albicans</i> isolates from a single hospital show low phenotypical specialization. <i>Journal of Basic Microbiology</i> , 2017, 57, 910-921.	3.3	2

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37	Insulin/IGF Signaling and Life History Traits in Response to Food Availability and Perceived Density in the Cnidarian <i>Hydra vulgaris</i> . <i>Zoological Science</i> , 2017, 34, 318.	0.7	2
38	Status signalling in male but not in female Eurasian Tree Sparrows <i>Passer montanus</i> . <i>Ibis</i> , 2017, 159, 180-192.	1.9	12
39	Simple command-line open-source software to analyse behavioural observation video recordings. <i>Acta Zoologica Academiae Scientiarum Hungaricae</i> , 2017, 63, 137-142.	0.5	6
40	Additional polymorphic microsatellite loci for detailed population genetic studies of <i>Lethrus apertus</i> (Coleoptera: Geotrupidae). <i>Acta Zoologica Academiae Scientiarum Hungaricae</i> , 2017, 63, 355-360.	0.5	1
41	Evaluation of potential reference genes for real-time qPCR analysis in a biparental beetle, <i>Lethrus apertus</i> (Coleoptera: Geotrupidae). <i>PeerJ</i> , 2017, 5, e4047.	2.0	23
42	Behavioural change over the annual cycle: optimal annual routines. <i>Current Opinion in Behavioral Sciences</i> , 2016, 12, 138-141.	3.9	3
43	Multivariate climatic effects and declining avian populations in an alkaline grassland complex. <i>Climate Research</i> , 2016, 68, 39-48.	1.1	6
44	Is Foraging Time Limited During Winter? A Feeding Experiment with Tree Sparrows Under Different Predation Risk. <i>Ethology</i> , 2016, 122, 20-29.	1.1	10
45	Personality and ectoparasitic mites ( <i>Hemipteroseius adleri</i> ) in firebugs ( <i>Pyrrhocoris apterus</i> ). <i>Behavioural Processes</i> , 2016, 122, 67-74.	1.1	15
46	Individual variation behind the evolution of cooperation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150087.	4.0	22
47	Instantaneous song modification in response to fluctuating traffic noise in the tree cricket <i>Oecanthus pellucens</i> . <i>Animal Behaviour</i> , 2016, 112, 187-194.	1.9	48
48	Effects of food availability on asexual reproduction and stress tolerance along the fast-slow life history continuum in freshwater hydra (Cnidaria: Hydrozoa). <i>Hydrobiologia</i> , 2016, 766, 121-133.	2.0	19
49	Roost Site Selection of the Common Crane in Its Largest European Stop-Over Site. <i>Ardea</i> , 2015, 103, 175-181.	0.6	5
50	Reproductive asynchrony and infanticide in house mice breeding communally. <i>Animal Behaviour</i> , 2015, 101, 201-211.	1.9	21
51	Predominant female care in the beetle <i>Lethrus apertus</i> with supposedly biparental care. <i>Entomological Science</i> , 2015, 18, 292-294.	0.6	14
52	Isolation and Characterisation of 15 Microsatellite Loci from <i>Lethrus apertus</i> (Coleoptera: Geotrupidae). <i>Journal of Heredity</i> , 2015, 106, 101-106.	0.6	6
53	Life-history traits and climatic responsiveness in noctuid moths. <i>Oikos</i> , 2015, 124, 235-242.	2.7	14
54	Predation on Rose Galls: Parasitoids and Predators Determine Gall Size through Directional Selection. <i>PLoS ONE</i> , 2014, 9, e99806.	2.5	10

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55	Life history trade-offs and stress tolerance in green hydra ( <i>Hydra viridissima</i> Pallas 1766): the importance of nutritional status and perceived population density. <i>Ecological Research</i> , 2014, 29, 867-876.	1.5	9
56	Mate preference does not influence reproductive motivation and parental cooperation in female zebra finches. <i>Behaviour</i> , 2014, 151, 1885-1901.	0.8	7
57	Climate and mammalian life histories. <i>Biological Journal of the Linnean Society</i> , 2014, 111, 719-736.	1.6	27
58	Social Role Specialization Promotes Cooperation between Parents. <i>American Naturalist</i> , 2014, 183, 747-761.	2.1	48
59	Simultaneous viewing of own and parasitic eggs is not required for egg rejection by a cuckoo host. <i>Behavioral Ecology</i> , 2013, 24, 1014-1021.	2.2	57
60	Haste Makes Waste but Condition Matters: Molt Rate – Feather Quality Trade-Off in a Sedentary Songbird. <i>PLoS ONE</i> , 2012, 7, e40651.	2.5	64
61	Personality traits across ontogeny in firebugs, <i>Pyrrhocoris apterus</i> . <i>Animal Behaviour</i> , 2012, 84, 103-109.	1.9	61
62	Pollination mode predicts phenological response to climate change in terrestrial orchids: a case study from central Europe. <i>Journal of Ecology</i> , 2012, 100, 1141-1152.	4.0	44
63	Timing of avian reproduction in unpredictable environments. <i>Evolutionary Ecology</i> , 2012, 26, 25-42.	1.2	20
64	Cuckoo parasitism on two closely-related <i>Acrocephalus</i> warblers in distant areas: a case of parallel coevolution?. <i>Chinese Birds: the International Journal of Ornithology</i> , 2012, 3, 320-329.	0.6	16
65	The Effect of Coccidians on The Condition and Immune profile of Molting House Sparrows ( <i>Passer</i> ). <i>Journal of Ornithology</i> , 2011, 52, 107-114.	1.4	39
66	Correlates of Variation in Flight Feather Quality in the Great Tit <i>Parus major</i> . <i>Ardea</i> , 2011, 99, 53-60.	0.6	21
67	Persistence of an extreme male-biased adult sex ratio in a natural population of polyandrous bird. <i>Journal of Evolutionary Biology</i> , 2011, 24, 1842-1846.	1.7	42
68	Cues and the optimal timing of activities under environmental changes. <i>Ecology Letters</i> , 2011, 14, 1183-1190.	6.4	125
69	The analysis of common cuckoo's egg shape in relation to its hosts' in two geographically distant areas. <i>Journal of Zoology</i> , 2011, 284, 77-83.	1.7	26
70	Breeding phenology determines evolutionary transitions in migratory behaviour in finches and allies. <i>Oikos</i> , 2011, 120, 184-193.	2.7	8
71	Individual behaviour in firebugs ( <i>Pyrrhocoris apterus</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 628-633.	2.6	50
72	Cooperation among non-relatives evolves by state-dependent generalized reciprocity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 843-848.	2.6	77

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73	Consistent avoidance of human disturbance over large geographical distances by a migratory bird. <i>Biology Letters</i> , 2011, 7, 814-817.	2.3	23
74	Degree of synchronization of tree sparrows in flocks under different predation risk. <i>Behaviour</i> , 2011, 148, 733-744.	0.8	12
75	Seasonality and Sociality in Tree Sparrows <i>Passer Montanus</i> . <i>International Studies on Sparrows</i> , 2010, 34, 18-22.	0.1	12
76	Sexual dimorphism in immune function changes during the annual cycle in house sparrows. <i>Die Naturwissenschaften</i> , 2010, 97, 891-901.	1.6	66
77	Ecological studies of ectomycorrhizal fungi: an analysis of survey methods. <i>Fungal Diversity</i> , 2010, 45, 3-19.	12.3	35
78	Seasonality in the uropygial gland size and feather mite abundance in house sparrows <i>Passer domesticus</i> : natural covariation and an experiment. <i>Journal of Avian Biology</i> , 2010, 41, 653-661.	1.2	51
79	Life history predicts advancement of avian spring migration in response to climate change. <i>Global Change Biology</i> , 2010, 16, 1-11.	9.5	104
80	Haste Makes Waste: Accelerated Molt Adversely Affects the Expression of Melanin-Based and Depigmented Plumage Ornaments in House Sparrows. <i>PLoS ONE</i> , 2010, 5, e14215.	2.5	38
81	Variation in Haematological Indices and Immune Function During the Annual Cycle in the Great Tit <i>Parus major</i> . <i>Ardea</i> , 2010, 98, 105-112.	0.6	46
82	Linear Measurements of the Neurocranium are Better Indicators of Population Differences than Those of the Facial Skeleton: Comparative Study of 1,961 Skulls. <i>Human Biology</i> , 2010, 82, 29-46.	0.2	8
83	Conflict over parental care in house sparrows: do females use a negotiation rule?. <i>Behavioral Ecology</i> , 2009, 20, 651-656.	2.2	22
84	The optimal coyness game. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 953-960.	2.6	21
85	Deterioration, death and the evolution of reproductive restraint in late life. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4061-4066.	2.6	125
86	Carotenoids modulate the effect of coccidian infection on the condition and immune response in moulting house sparrows. <i>Journal of Experimental Biology</i> , 2009, 212, 3228-3235.	1.7	27
87	How is sexual conflict over parental care resolved? A meta-analysis. <i>Journal of Evolutionary Biology</i> , 2009, 22, 1800-1812.	1.7	233
88	Seasonal colour change by moult or by the abrasion of feather tips: a comparative study. <i>Biological Journal of the Linnean Society</i> , 2008, 94, 711-721.	1.6	28
89	The coevolution of choosiness and cooperation. <i>Nature</i> , 2008, 451, 189-192.	27.8	231
90	Cortical Spreading Edema in Persistent Visual Migraine Aura. <i>Headache</i> , 2008, 48, 1226-1229.	3.9	25

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91	The Effect of Within-Flock Spatial Position on the Use of Social Foraging Tactics in Free-Living Tree Sparrows. <i>Ethology</i> , 2008, 114, 215-222.	1.1	17
92	History of the Peoples of the Great Hungarian Plain in the First Millennium: A Craniometric Point of View. <i>Human Biology</i> , 2008, 80, 655-667.	0.2	2
93	Adaptive Host-Abandonment of Ectoparasites Before Fledging? Within-Brood Distribution of Nest Mites in House Sparrow Broods. <i>Journal of Parasitology</i> , 2008, 94, 1038-1043.	0.7	5
94	A Theoretical Investigation of the Effect of Latitude on Avian Life Histories. <i>American Naturalist</i> , 2008, 172, 331-345.	2.1	79
95	Optimal moult strategies in migratory birds. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 211-229.	4.0	139
96	Diet quality affects postnuptial molting and feather quality of the house sparrow ( <i>Passer</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (834-842.	1.0	61
97	OPTIMAL ANNUAL ROUTINES: NEW TOOLS FOR CONSERVATION BIOLOGY. <i>Ecological Applications</i> , 2008, 18, 1563-1577.	3.8	28
98	Increase of feather quality during moult: a possible implication of feather deformities in the evolution of partial moult in the great tit <i>Parus major</i> . <i>Journal of Avian Biology</i> , 2007, 38, 471-478.	1.2	2
99	The effect of energy reserves and food availability on optimal immune defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2835-2842.	2.6	93
100	Increase of feather quality during moult: a possible implication of feather deformities in the evolution of partial moult in the great tit <i>Parus major</i> . <i>Journal of Avian Biology</i> , 2007, 38, 471-478.	1.2	22
101	Migration speed and scheduling of annual events by migrating birds in relation to climate change. <i>Climate Research</i> , 2007, 35, 79-91.	1.1	45
102	High synchrony of egg laying in common cuckoos ( <i>Cuculus canorus</i> ) and their great reed warbler ( <i>Acrocephalus arundinaceus</i> ) hosts. <i>Ethology Ecology and Evolution</i> , 2006, 18, 159-167.	1.4	38
103	Annual routines of non-migratory birds: optimal moult strategies. <i>Oikos</i> , 2006, 112, 580-593.	2.7	79
104	The effects of energy reserves and dominance on the use of social-foraging strategies in the house sparrow. <i>Animal Behaviour</i> , 2006, 72, 747-752.	1.9	44
105	A theoretical investigation of the effect of predators on foraging behaviour and energy reserves. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 929-934.	2.6	48
106	The effect of energy reserves on social foraging: hungry sparrows scrounge more. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2467-2472.	2.6	71
107	Variation in behaviour promotes cooperation in the Prisoner's Dilemma game. <i>Nature</i> , 2004, 428, 745-748.	27.8	159
108	The effects of predation risk on the use of social foraging tactics. <i>Animal Behaviour</i> , 2004, 67, 301-308.	1.9	65

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109	The effect of foraging parameters on the probability that a dive is successful. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2451-2455.	2.6	17
110	Should young ever be better off with one parent than with two?. Behavioral Ecology, 2003, 14, 301-310.	2.2	164
111	THE EFFECTS OF DOMINANCE ON SOCIAL FORAGING TACTIC USE IN HOUSE SPARROWS. Behaviour, 2002, 139, 1061-1076.	0.8	90
112	Sexual Conflict about Parental Care: The Role of Reserves. American Naturalist, 2002, 159, 687-705.	2.1	101
113	ADAPTATIONS BY GREAT REED WARBLERS TO BROOD PARASITISM: A COMPARISON OF POPULATIONS IN SYMPATRY AND ALLOPATRY WITH THE COMMON CUCKOO. Behaviour, 2002, 139, 1313-1329.	0.8	64
114	Male Badge Size Predicts Dominance Against Females in House Sparrows. Condor, 2001, 103, 151-157.	1.6	49
115	MALE BADGE SIZE PREDICTS DOMINANCE AGAINST FEMALES IN HOUSE SPARROWS1. Condor, 2001, 103, 151.	1.6	46
116	EEG frequency profiles of idiopathic generalised epilepsy syndromes. Epilepsy Research, 2000, 42, 105-115.	1.6	62
117	Daily Patterns of Optimal Producer and Scrounger Use under Predation Hazard: A State-Dependent Dynamic Game Analysis. American Naturalist, 2000, 155, 570-582.	2.1	44
118	The effect of dominance hierarchy on the use of alternative foraging tactics: a phenotype-limited producing-scrounging game. Behavioral Ecology and Sociobiology, 1998, 42, 217-223.	1.4	177
119	Geometry for a selfish foraging group: a genetic algorithm approach. Proceedings of the Royal Society B: Biological Sciences, 1997, 264, 1233-1238.	2.6	72
120	Frequency-dependent selection on information-transfer strategies at breeding colonies: a simulation study. Behavioral Ecology, 1995, 6, 308-310.	2.2	16
121	The Threat to Bank Swallows from the Hobby at a Large Colony. Condor, 1992, 94, 1022-1025.	1.6	9
122	The role of information transfer under different food patterns: a simulation study. Behavioral Ecology, 1992, 3, 318-324.	2.2	40