

Hynek Burda

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,792
citations

26
h-index

40
g-index

83
ext. papers

2,115
ext. citations

4.1
avg, IF

4.57
L-index

#	Paper	IF	Citations
74	Investigating the impact of weak geomagnetic fluctuations on pigeon races.. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022 , 208, 177	2.3	0
73	Increased longevity due to sexual activity in mole-rats is associated with transcriptional changes in the HPA stress axis. <i>ELife</i> , 2021 , 10,	8.9	7
72	Surprisingly long survival of premature conclusions about naked mole-rat biology. <i>Biological Reviews</i> , 2021 , 96, 376-393	13.5	14
71	Turning preference in dogs: North attracts while south repels. <i>PLoS ONE</i> , 2021 , 16, e0245940	3.7	2
70	Observation of rescue behaviour in wild boar (<i>Sus scrofa</i>). <i>Scientific Reports</i> , 2021 , 11, 16217	4.9	1
69	Sensory perception of mole-rats and mole rats: assessment of a complex natural global evolutionary Experiment 2021 , 161-191		
68	Functional anatomy of the middle and inner ears of the red fox, in comparison to domestic dogs and cats. <i>Journal of Anatomy</i> , 2020 , 236, 980-995	2.9	4
67	Magnetic alignment enhances homing efficiency of hunting dogs. <i>ELife</i> , 2020 , 9,	8.9	4
66	Functional histology of the skin in the subterranean African giant mole-rat: thermal windows are determined solely by pelage characteristics. <i>PeerJ</i> , 2020 , 8, e8883	3.1	1
65	Magnetoreception in Mammals 2020 , 421-444		5
64	Brain atlas of the African mole-rat <i>Fukomys anselli</i> . <i>Journal of Comparative Neurology</i> , 2019 , 527, 1885-1900	9.4	3
63	Vocal recognition of a nest-predator in black grouse. <i>PeerJ</i> , 2019 , 7, e6533	3.1	4
62	Attracted by a magnet: Exploration behaviour of rodents in the presence of magnetic objects. <i>Behavioural Processes</i> , 2018 , 151, 11-15	1.6	10
61	Learned and spontaneous magnetosensitive behaviour in the Roborovski hamster (<i>Phodopus roborovskii</i>). <i>Ethology</i> , 2018 , 124, 423-431	1.7	8
60	Light-independent magnetosensitive behaviour in the Djungarian hamster (<i>Phodopus sungorus</i>). <i>Mammalian Biology</i> , 2018 , 91, 91-94	1.6	3
59	Retinal S-opsin dominance in Ansell's mole-rats (<i>Fukomys anselli</i>) is a consequence of naturally low serum thyroxine. <i>Scientific Reports</i> , 2018 , 8, 4337	4.9	5
58	Long-lived rodents reveal signatures of positive selection in genes associated with lifespan. <i>PLoS Genetics</i> , 2018 , 14, e1007272	6	27

57	Sociality does not drive the evolution of large brains in eusocial African mole-rats. <i>Scientific Reports</i> , 2018 , 8, 9203	4.9	25
56	Do subterranean mammals use the Earth's magnetic field as a heading indicator to dig straight tunnels?. <i>PeerJ</i> , 2018 , 6, e5819	3.1	8
55	Dogs can be trained to find a bar magnet. <i>PeerJ</i> , 2018 , 6, e6117	3.1	10
54	Higher resting metabolic rate in long-lived breeding Ansell's mole-rats (). <i>Frontiers in Zoology</i> , 2017 , 14, 45	2.8	9
53	Magnetic alignment in warthogs <i>Phacochoerus africanus</i> and wild boars <i>Sus scrofa</i> . <i>Mammal Review</i> , 2017 , 47, 1-5	5	12
52	Directional orientation of pheasant chicks at the drinking dish and its potential for research on avian magnetoreception. <i>Folia Zoologica</i> , 2017 , 66, 175-182	1.3	4
51	Direction indicator and magnetic compass-aided tracking of the sun by flamingos?. <i>Folia Zoologica</i> , 2017 , 66, 79-86	1.3	5
50	Directional preference in dogs: Laterality and "pull of the north". <i>PLoS ONE</i> , 2017 , 12, e0185243	3.7	9
49	Does the morphology of the ear of the Chinese bamboo rat (<i>Rhizomys sinensis</i>) show "Subterranean" characteristics?. <i>Journal of Morphology</i> , 2016 , 277, 575-84	1.6	7
48	Compass-controlled escape behavior in roe deer. <i>Behavioral Ecology and Sociobiology</i> , 2016 , 70, 1345-1355	5	19
47	Non-Breeding Eusocial Mole-Rats Produce Viable Sperm--Spermiogram and Functional Testicular Morphology of <i>Fukomys anselli</i> . <i>PLoS ONE</i> , 2016 , 11, e0150112	3.7	5
46	Cryptochrome 1 in Retinal Cone Photoreceptors Suggests a Novel Functional Role in Mammals. <i>Scientific Reports</i> , 2016 , 6, 21848	4.9	40
45	Variability of space-use patterns in a free living eusocial rodent, Ansell's mole-rat indicates age-based rather than caste polyethism. <i>Scientific Reports</i> , 2016 , 6, 37497	4.9	16
44	Temperature preferences of African mole-rats (family Bathyergidae). <i>Journal of Thermal Biology</i> , 2015 , 53, 15-22	2.9	9
43	Magnetoreception in the wood mouse (<i>Apodemus sylvaticus</i>): influence of weak frequency-modulated radio frequency fields. <i>Scientific Reports</i> , 2015 , 4, 9917	4.9	44
42	Magnetically induced behaviour of ferritin corpuscles in avian ears: can cuticulosomes function as magnetosomes?. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141087	4.1	17
41	Surprisingly low risk of overheating during digging in two subterranean rodents. <i>Physiology and Behavior</i> , 2015 , 138, 236-41	3.5	15
40	Effect of exposure to extremely low frequency magnetic fields on melatonin levels in calves is seasonally dependent. <i>Scientific Reports</i> , 2015 , 5, 14206	4.9	3

39	A behavioral audiogram of the red fox (<i>Vulpes vulpes</i>). <i>Hearing Research</i> , 2015 , 320, 30-7	3.9	12
38	Magnetoreception in Mammals. <i>Advances in the Study of Behavior</i> , 2014 , 45-88	3.4	21
37	Morphology of the carpal region in some rodents with special emphasis on hystricognaths. <i>Acta Zoologica</i> , 2014 , 95, 220-238	0.8	5
36	Unusual ratio between free thyroxine and free triiodothyronine in a long-lived mole-rat species with bimodal ageing. <i>PLoS ONE</i> , 2014 , 9, e113698	3.7	14
35	Directional compass preference for landing in water birds. <i>Frontiers in Zoology</i> , 2013 , 10, 38	2.8	22
34	Dogs are sensitive to small variations of the Earth's magnetic field. <i>Frontiers in Zoology</i> , 2013 , 10, 80	2.8	50
33	Magnetic alignment in mammals and other animals. <i>Mammalian Biology</i> , 2013 , 78, 10-20	1.6	68
32	Vocalizations of the giant mole-rat (<i>Fukomys mechowii</i>), a subterranean rodent with the richest vocal repertoire. <i>Bioacoustics</i> , 2013 , 22, 87-107	1.6	22
31	Does magnetoreception mediate biological effects of power-frequency magnetic fields?. <i>Science of the Total Environment</i> , 2012 , 417-418, 299-304	10.2	10
30	To mate or not to mate? Mate preference and fidelity in monogamous Ansell's mole-rats, <i>Fukomys ansellii</i> , Bathyergidae. <i>Folia Zoologica</i> , 2012 , 61, 71-83	1.3	9
29	Health effects of extremely low-frequency magnetic fields: reconsidering the melatonin hypothesis in the light of current data on magnetoreception. <i>Journal of Applied Toxicology</i> , 2012 , 32, 952-8	4.1	17
28	Burrow architecture, family composition and habitat characteristics of the largest social African mole-rat: the giant mole-rat constructs really giant burrow systems. <i>Acta Theriologica</i> , 2012 , 57, 121-130		37
27	Magnetic alignment in carps: evidence from the Czech christmas fish market. <i>PLoS ONE</i> , 2012 , 7, e51100	3.7	31
26	Extended longevity of reproductives appears to be common in <i>Fukomys</i> mole-rats (Rodentia, Bathyergidae). <i>PLoS ONE</i> , 2011 , 6, e18757	3.7	49
25	Directional preference may enhance hunting accuracy in foraging foxes. <i>Biology Letters</i> , 2011 , 7, 355-7	3.6	53
24	Changing and shielded magnetic fields suppress c-Fos expression in the navigation circuit: input from the magnetosensory system contributes to the internal representation of space in a subterranean rodent. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1275-92	4.1	36
23	Cost of digging is determined by intrinsic factors rather than by substrate quality in two subterranean rodent species. <i>Physiology and Behavior</i> , 2010 , 99, 54-8	3.5	43
22	Home-Range Dynamics in a Solitary Subterranean Rodent. <i>Ethology</i> , 2009 , 115, 217-226	1.7	35

21	VOCALISATIONS OF THE SILVERY MOLE-RAT: COMPARISON OF VOCAL REPERTOIRES IN SUBTERRANEAN RODENTS WITH DIFFERENT SOCIAL SYSTEMS. <i>Bioacoustics</i> , 2009 , 18, 241-257	1.6	14
20	Extremely low-frequency electromagnetic fields disrupt magnetic alignment of ruminants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5708-13	11.5	76
19	Magnetic alignment in grazing and resting cattle and deer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13451-5	11.5	108
18	Living in a "stethoscope": burrow-acoustics promote auditory specializations in subterranean rodents. <i>Die Naturwissenschaften</i> , 2007 , 94, 134-8	2	49
17	Patterns of surface temperatures in two mole-rats (Bathyergidae) with different social systems as revealed by IR-thermography. <i>Physiology and Behavior</i> , 2007 , 92, 526-32	3.5	37
16	Giant Mole-rats, <i>Fukomys mechowii</i> , 13 Years on the Stage 2007 , 205-219		12
15	Magnetic Compass: A Useful Tool Underground 2007 , 161-174		7
14	Microclimate in Burrows of Subterranean Rodents [Revisited 2007 , 21-33		39
13	Sexual activity and reproduction delay ageing in a mammal. <i>Current Biology</i> , 2006 , 16, R117-8	6.3	75
12	Acoustic communication and burrow acoustics are reflected in the ear morphology of the coruro (<i>Spalacopus cyanus</i> , Octodontidae), a social fossorial rodent. <i>Journal of Morphology</i> , 2006 , 267, 382-90	1.6	27
11	Magnetic compass in the cornea: local anaesthesia impairs orientation in a mammal. <i>Journal of Experimental Biology</i> , 2006 , 209, 4747-50	3	49
10	The magnetic compass mechanisms of birds and rodents are based on different physical principles. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 583-7	4.1	72
9	Taxonomic status and remarks on ecology of the Malawian mole-rat <i>Cryptomys whytei</i> (Rodentia, Bathyergidae). <i>Acta Theriologica</i> , 2005 , 50, 529-536		11
8	Silvery mole-rats (<i>Heliophobius argenteocinereus</i> , Bathyergidae) change their burrow architecture seasonally. <i>Die Naturwissenschaften</i> , 2003 , 90, 370-3	2	55
7	Odours underground: subterranean rodents may not forage "blindly". <i>Behavioral Ecology and Sociobiology</i> , 2002 , 52, 53-58	2.5	26
6	Neuroanatomy of magnetoreception: the superior colliculus involved in magnetic orientation in a mammal. <i>Science</i> , 2001 , 294, 366-8	33.3	132
5	ECOLOGICAL DETERMINANTS OF VOCALISATION PARAMETERS: THE CASE OF THE CORURO SPALACOPUS CYANUS (OCTODONTIDAE), A FOSSORIAL SOCIAL RODENT. <i>Bioacoustics</i> , 2000 , 11, 129-148	1.6	26
4	How to eat a carrot? Convergence in the feeding behavior of subterranean rodents. <i>Die Naturwissenschaften</i> , 1999 , 86, 325-327	2	4

3	Ovarian growth and folliculogenesis in breeding and nonbreeding females of a social rodent, the Zambian common mole-rat, <i>Cryptomys</i> sp. <i>Journal of Morphology</i> , 1998 , 237, 33-41	1.6	15
2	Cochlea in old world mice and rats (Muridae). <i>Journal of Morphology</i> , 1988 , 198, 269-85	1.6	65
1	The HPA stress axis shapes aging rates in long-lived, social mole-rats		2