

Dominik Heyers

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,531
citations

361413

20
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Visual but not trigeminal mediation of magnetic compass information in a migratory bird. <i>Nature</i> , 2009, 461, 1274-1277.	27.8	239
2	A Visual Pathway Links Brain Structures Active during Magnetic Compass Orientation in Migratory Birds. <i>PLoS ONE</i> , 2007, 2, e937.	2.5	160
3	Avian Magnetoreception: Elaborate Iron Mineral Containing Dendrites in the Upper Beak Seem to Be a Common Feature of Birds. <i>PLoS ONE</i> , 2010, 5, e9231.	2.5	113
4	Magnetic field changes activate the trigeminal brainstem complex in a migratory bird. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9394-9399.	7.1	112
5	The Neural Basis of Long-Distance Navigation in Birds. <i>Annual Review of Physiology</i> , 2016, 78, 133-154.	13.1	107
6	Eurasian reed warblers compensate for virtual magnetic displacement. <i>Current Biology</i> , 2015, 25, R822-R824.	3.9	105
7	Targeting Axons to Specific Fiber Tracts In Vivo by Altering Cadherin Expression. <i>Journal of Neuroscience</i> , 2002, 22, 7617-7626.	3.6	97
8	Migratory Reed Warblers Need Intact Trigeminal Nerves to Correct for a 1,000 km Eastward Displacement. <i>PLoS ONE</i> , 2013, 8, e65847.	2.5	68
9	Localisation of the Putative Magnetoreceptive Protein Cryptochrome 1b in the Retinae of Migratory Birds and Homing Pigeons. <i>PLoS ONE</i> , 2016, 11, e0147819.	2.5	58
10	Night-migratory garden warblers can orient with their magnetic compass using the left, the right or both eyes. <i>Journal of the Royal Society Interface</i> , 2010, 7, S227-33.	3.4	53
11	Night-time neuronal activation of Cluster N in a day- and night-migrating songbird. <i>European Journal of Neuroscience</i> , 2010, 32, 619-624.	2.6	51
12	An Iron-Rich Organelle in the Cuticular Plate of Avian Hair Cells. <i>Current Biology</i> , 2013, 23, 924-929.	3.9	41
13	Magnetic field-driven induction of ZENK in the trigeminal system of pigeons (<i>Columba livia</i>). <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140777.	3.4	40
14	Magnetic map navigation in a migratory songbird requires trigeminal input. <i>Scientific Reports</i> , 2018, 8, 11975.	3.3	36
15	Geomagnetic information modulates nocturnal migratory restlessness but not fueling in a long distance migratory songbird. <i>Journal of Avian Biology</i> , 2017, 48, 75-82.	1.2	33
16	Cryptochrome 1a localisation in light- and dark-adapted retinae of several migratory and non-migratory bird species: no signs of light-dependent activation. <i>Ethology Ecology and Evolution</i> , 2021, 33, 248-272.	1.4	30
17	Calcium-binding proteins label functional streams of the visual system in a songbird. <i>Brain Research Bulletin</i> , 2008, 75, 348-355.	3.0	27
18	Cadherin expression coincides with birth dating patterns in patchy compartments of the developing chicken telencephalon. <i>Journal of Comparative Neurology</i> , 2003, 460, 155-166.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Magnetic activation in the brain of the migratory northern wheatear (<i>Oenanthe oenanthe</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 591-600.	1.6	23
20	Experienced migratory songbirds do not display goal-ward orientation after release following a cross-continental displacement: an automated telemetry study. <i>Scientific Reports</i> , 2016, 6, 37326.	3.3	21
21	Patch/matrix patterns of gray matter differentiation in the telencephalon of chicken and mouse. <i>Brain Research Bulletin</i> , 2002, 57, 489-493.	3.0	20
22	The magnetic map sense and its use in fine-tuning the migration programme of birds. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 491-497.	1.6	18
23	A newly identified trigeminal brain pathway in a night-migratory bird could be dedicated to transmitting magnetic map information. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192788.	2.6	17
24	Selective synaptic cadherin expression by traced neurons of the chicken visual system. <i>Neuroscience</i> , 2004, 127, 901-912.	2.3	15
25	Lidocaine is a placebo treatment for trigeminally mediated magnetic orientation in birds. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180124.	3.4	15
26	Prussian blue technique is prone to yield false negative results in magnetoreception research. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
27	In Search for the Avian Trigeminal Magnetic Sensor: Distribution of Peripheral and Central Terminals of Ophthalmic Sensory Neurons in the Night-Migratory Eurasian Blackcap (<i>Sylvia atricapilla</i>). <i>Frontiers in Neuroanatomy</i> , 2022, 16, 853401.	1.7	3
28	The neuronal correlates of the avian magnetic senses. <i>Neuroforum</i> , 2021, 27, 167-174.	0.3	2