Harald Luksch

List of Publications by Year
in descending order

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68	1,590	394390	330122
papers	citations	19 h-index	37 g-index

70	70	70	972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Visual Pathway Links Brain Structures Active during Magnetic Compass Orientation in Migratory Birds. PLoS ONE, 2007, 2, e937.	2.5	160
2	Bottlebrush dendritic endings and large dendritic fields: Motion-detecting neurons in the tectofugal pathway. Journal of Comparative Neurology, 1998, 396, 399-414.	1.6	147
3	Columnar projections from the cholinergic nucleus isthmi to the optic tectum in chicks (Gallus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2006, 494, 7-35.	1.6	111
4	Bottlebrush dendritic endings and large dendritic fields: Motion-detecting neurons in the mammalian tectum. Journal of Comparative Neurology, 2000, 423, 243-260.	1.6	90
5	The use of in vitro preparations of the isolated amphibian central nervous system in neuroanatomy and electrophysiology. Journal of Neuroscience Methods, 1996, 70, 91-102.	2.5	68
6	Cytoarchitecture of the Avian Optic Tectum: Neuronal Substrate for Cellular Computation. Reviews in the Neurosciences, 2003, 14, 85-106.	2.9	64
7	Chattering and Differential Signal Processing in Identified Motion-Sensitive Neurons of Parallel Visual Pathways in the Chick Tectum. Journal of Neuroscience, 2001, 21, 6440-6446.	3.6	60
8	Chemoarchitecture of the anuran auditory midbrain. Brain Research Reviews, 2000, 33, 179-198.	9.0	58
9	Morphology and axonal projection patterns of auditory neurons in the midbrain of the painted frog, Discoglossus pictus. Hearing Research, 1998, 122, 1-17.	2.0	45
10	Dorsal striatopallidal system in anurans. Journal of Comparative Neurology, 2004, 468, 299-310.	1.6	44
11	Improved In Vitro Model for Intranasal Mucosal Drug Delivery: Primary Olfactory and Respiratory Epithelial Cells Compared with the Permanent Nasal Cell Line RPMI 2650. Pharmaceutics, 2019, 11, 367.	4.5	43
12	Sensory Motor Interfacing in Acoustic Behavior of Anurans. American Zoologist, 1994, 34, 685-695.	0.7	38
13	Synaptic dynamics mediate sensitivity to motion independent of stimulus details. Nature Neuroscience, 2004, 7, 380-388.	14.8	36
14	A Candidate Pathway for a Visual Instructional Signal to the Barn Owl's Auditory System. Journal of Neuroscience, 2000, 20, RC70-RC70.	3.6	29
15	Calcium-binding proteins label functional streams of the visual system in a songbird. Brain Research Bulletin, 2008, 75, 348-355.	3.0	27
16	Active Sensing -Closing Multiple Loops. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1998, 53, 542-549.	1.4	24
17	Anatomy and physiology of horizontal cells in layer 5b of the chicken optic tectum. Journal of Chemical Neuroanatomy, 2003, 25, 185-194.	2.1	24
18	Recurrent Antitopographic Inhibition Mediates Competitive Stimulus Selection in an Attention Network. Journal of Neurophysiology, 2011, 105, 793-805.	1.8	22

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19	Cas9-expressing chickens and pigs as resources for genome editing in livestock. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
20	Allogenic Fc Domain-Facilitated Uptake of IgG in Nasal Lamina Propria: Friend or Foe for Intranasal CNS Delivery?. Pharmaceutics, 2018, 10, 107.	4.5	21
21	The Avian Head Induces Cues for Sound Localization in Elevation. PLoS ONE, 2014, 9, e112178.	2.5	21
22	â€œShepherdâ€™s crookâ€•neurons drive and synchronize the enhancing and suppressive mechanisms of the midbrain stimulus selection network. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7615-E7623.	7.1	20
23	Distributed delays stabilize neural feedback systems. Biological Cybernetics, 2008, 99, 79-87.	1.3	19
24	Mapping of the Receptive Fields in the Optic Tectum of Chicken (Gallus gallus) Using Sparse Noise. PLoS ONE, 2013, 8, e60782.	2.5	19
25	Morphology, projection pattern, and neurochemical identity of Cajal's â€œcentrifugal neuronsâ€• The cells of origin of the tectoventrogeniculate pathway in pigeon (Columba livia) and chicken (Gallus gallus). Journal of Comparative Neurology, 2014, 522, 2377-2396.	1.6	19
26	Congruent representation of visual and acoustic space in the superior colliculus of the echolocating bat Phyllostomus discolor. European Journal of Neuroscience, 2016, 44, 2685-2697.	2.6	18
27	An indirect basal ganglia pathway in anuran amphibians?. Journal of Chemical Neuroanatomy, 2010, 40, 21-35.	2.1	17
28	Echo-acoustic flow affects flight in bats. Journal of Experimental Biology, 2016, 219, 1793-7.	1.7	17
29	The centrifugal visual system of a palaeognathous bird, the Chilean Tinamou (Nothoprocta) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	17
30	Microconnectomics of the pretectum and ventral thalamus in the chicken (Gallus gallus). Journal of Comparative Neurology, 2016, 524, 2208-2229.	1.6	15
31	Neuronal responses to motion and apparent motion in the optic tectum of chickens. Brain Research, 2016, 1635, 190-200.	2.2	15
32	Neuronal morphology in subdivisions of the inferior colliculus of chicken (Gallus gallus). Journal of Chemical Neuroanatomy, 2012, 44, 24-33.	2.1	14
33	The visual system of a <scp>P</scp>alaeognathous bird: Visual field, retinal topography and retinoâ€central connections in the <scp>C</scp>hilean <scp>T</scp>inamou (<scp>N</scp>othoprocta perdicaria). Journal of Comparative Neurology, 2015, 523, 226-250.	1.6	13
34	Development of output connections from the inferior colliculus to the optic tectum in barn owls. Journal of Comparative Neurology, 2003, 464, 511-524.	1.6	12
35	A novel relay nucleus between the inferior colliculus and the optic tectum in the chicken (Gallus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	12
36	Pretecto-tectal interactions: effects of lesioning and stimulating the pretectum on field potentials in the optic tectum of salamanders in vitro. Neuroscience Letters, 1996, 217, 137-140.	2.1	11

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37	Sparse Spatial Sampling for the Computation of Motion in Multiple Stages. Biological Cybernetics, 2006, 94, 276-287.	1.3	11
38	Proteomic Analyses of Zebra Finch Optic Tectum and Comparative Histochemistry. Journal of Proteome Research, 2007, 6, 2341-2350.	3.7	11
39	Multimodal integration in behaving chickens. Journal of Experimental Biology, 2015, 219, 90-5.	1.7	10
40	Immunohistochemical localization of cocaineâ€•and amphetamineâ€•regulated transcript peptide (CARTp) in the brain of the pigeon (Columba livia) and zebra finch (Taeniopygia guttata). Journal of Comparative Neurology, 2016, 524, 3747-3773.	1.6	10
41	The Medial Ventrothalamic Circuitry: Cells Implicated in a Bimodal Network. Frontiers in Neural Circuits, 2018, 12, 9.	2.8	10
42	Development of retino-recipient projection neurons in the optic tectum of the chicken. Developmental Brain Research, 2001, 128, 149-156.	1.7	9
43	Neuronal differentiation of the early embryonic auditory hindbrain of the chicken in primary culture. European Journal of Neuroscience, 2007, 25, 974-984.	2.6	9
44	Increase of Kv3.1b expression in avian auditory brainstem neurons correlates with synaptogenesis in vivo and in vitro. Brain Research, 2009, 1302, 64-75.	2.2	9
45	Organotopic organization of the primary Infrared Sensitive Nucleus (LTTD) in the western diamondback rattlesnake (Crotalus atrox). Journal of Comparative Neurology, 2014, 522, 3943-3959.	1.6	9
46	Neuronal Substrates for Infrared Contrast Enhancement and Motion Detection in Rattlesnakes. Current Biology, 2019, 29, 1827-1832.e4.	3.9	9
47	Generating oscillatory bursts from a network of regular spiking neurons without inhibition. Journal of Computational Neuroscience, 2009, 27, 591-606.	1.0	8
48	Spatiotemporal analysis of electrically evoked activity in the chicken optic tectum: a VSDI study. Journal of Neurophysiology, 2012, 107, 640-648.	1.8	8
49	Processing of motion stimuli by cells in the optic tectum of chickens. NeuroReport, 2015, 26, 578-582.	1.2	8
50	Early enucleation does not alter the gross morphology of identified projection neurons in the chicken optic tectum. Neuroscience Letters, 2002, 331, 41-44.	2.1	7
51	Expression patterns of ion channels and structural proteins in a multimodal cell type of the avian optic tectum. Journal of Comparative Neurology, 2018, 526, 412-424.	1.6	7
52	Synaptic convergence of afferent inputs in primary infrared-sensitive nucleus (LTTD) neurons of rattlesnakes (Crotalinae) as the origin for sensory contrast enhancement. Journal of Experimental Biology, 2018, 221, .	1.7	7
53	Secretagogin Immunoreactivity Reveals Lugaro Cells in the Pigeon Cerebellum. Cerebellum, 2019, 18, 544-555.	2.5	7
54	Echo-acoustic and optic flow interact in bats. Journal of Experimental Biology, 2019, 222, .	1.7	7

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55	Distribution of the cellular retinoic acid binding protein CRABP-I in the developing chick optic tectum. Brain Research, 2007, 1168, 21-31.	2.2	6
56	Local cholinergic interneurons modulate <scp>GABA</scp>ergic inhibition in the chicken optic tectum. European Journal of Neuroscience, 2014, 39, 730-737.	2.6	5
57	Selective cultivation of N-cadherin expressing cells from the optic tectum of the chick. Journal of Neuroscience Methods, 2006, 154, 53-59.	2.5	4
58	Identification of auditory neurons by retrograde labelling for patch-clamp recordings in a mixed culture of chick brainstem. Journal of Neuroscience Methods, 2008, 169, 55-64.	2.5	4
59	The Neural Basis of Dim-Light Vision in Echolocating Bats. Brain, Behavior and Evolution, 2019, 94, 61-70.	1.7	4
60	Anatomy and Physiology of Neurons in Layer 9 of the Chicken Optic Tectum. Frontiers in Neural Circuits, 2019, 13, 63.	2.8	3
61	Frequency modulation of rattlesnake acoustic display affects acoustic distance perception in humans. Current Biology, 2021, 31, 4367-4372.e4.	3.9	3
62	Fabrication of precisely aligned microwire and microchannel structures: Toward heat stimulation of guided neurites in neuronal cultures. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600729.	1.8	2
63	Two types of auditory spatial receptive fields in different parts of the chicken's midbrain. Journal of Neuroscience, 2022, , JN-RM-2204-21.	3.6	2
64	Effects of early eye removal on the morphology of a multisensory neuron in the chicken optic tectum. Brain Research, 2018, 1691, 9-14.	2.2	1
65	AP-2Î´ Expression Kinetics in Multimodal Networks in the Developing Chicken Midbrain. Frontiers in Neural Circuits, 2021, 15, 756184.	2.8	1
66	Organotopic organization of the primary Infrared Sensitive Nucleus (LTTD) in the western diamondback rattlesnake (Crotalus atrox). Journal of Comparative Neurology, 2014, 522, Spc1-Spc1.	1.6	0
67	Change in the neurochemical signature and morphological development of the parvocellular isthmic projection to the avian tectum. Journal of Comparative Neurology, 2022, 530, 553-573.	1.6	0
68	Chronic Multi-Electrode Electromyography in Snakes. Frontiers in Behavioral Neuroscience, 2021, 15, 761891.	2.0	0