

Jacob Engelmann

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,182
citations

394421

19
h-index

395702

33
g-index

52
all docs

52
docs citations

52
times ranked

749
citing authors

#	ARTICLE	IF	CITATIONS
1	Motion parallax for object localization in electric fields. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 016003.	2.9	1
2	Linking active sensing and spatial learning in weakly electric fish. <i>Current Opinion in Neurobiology</i> , 2021, 71, 1-10.	4.2	11
3	The Use of Supervised Learning Models in Studying Agonistic Behavior and Communication in Weakly Electric Fish. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 718491.	2.0	3
4	Task-Related Sensorimotor Adjustments Increase the Sensory Range in Electrolocation. <i>Journal of Neuroscience</i> , 2020, 40, 1097-1109.	3.6	9
5	Active Control of Sensing Through Movements in Active Electrolocation. , 2020, , 369-384.		0
6	Spatial learning through active electroreception in <i>Gnathonemus petersii</i> . <i>Animal Behaviour</i> , 2019, 156, 1-10.	1.9	7
7	Social odour activates the hippocampal formation in zebra finches (<i>Taeniopygia guttata</i>). <i>Behavioural Brain Research</i> , 2019, 364, 41-49.	2.2	14
8	Motion parallax in electric sensing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 573-577.	7.1	31
9	Male-mediated species recognition among African weakly electric fishes. <i>Royal Society Open Science</i> , 2018, 5, 170443.	2.4	11
10	Application of reduced sensor movement sequences as a precursor for search area partitioning and a selection of discrete EEV contour-ring fragments for active electrolocation. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 066008.	2.9	5
11	Physiological evidence of sensory integration in the electrosensory lateral line lobe of <i>Gnathonemus petersii</i> . <i>PLoS ONE</i> , 2018, 13, e0194347.	2.5	1
12	Electric pulse characteristics can enable species recognition in African weakly electric fish species. <i>Scientific Reports</i> , 2018, 8, 10799.	3.3	10
13	Sensing External and Self-Motion with Hair Cells: A Comparison of the Lateral Line and Vestibular Systems from a Developmental and Evolutionary Perspective. <i>Brain, Behavior and Evolution</i> , 2017, 90, 98-116.	1.7	53
14	Sensory Flow as a Basis for a Novel Distance Cue in Freely Behaving Electric Fish. <i>Journal of Neuroscience</i> , 2017, 37, 302-312.	3.6	23
15	Sensory Flow as a Basis for a Novel Distance Cue in Freely Behaving Electric Fish. <i>Journal of Neuroscience</i> , 2017, 37, 302-312.	3.6	2
16	Modeling latency code processing in the electric sense: from the biological template to its VLSI implementation. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 055007.	2.9	5
17	Electrolocation of objects in fluids by means of active sensor movements based on discrete EEVs. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 055002.	2.9	4
18	Somatotopic map of the active electrosensory sense in the midbrain of the mormyrid <i>Gnathonemus petersii</i> . <i>Journal of Comparative Neurology</i> , 2016, 524, 2479-2491.	1.6	7

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19	Adaptation-induced modification of motion selectivity tuning in visual tectal neurons of adult zebrafish. <i>Journal of Neurophysiology</i> , 2015, 114, 2893-2902.	1.8	8
20	More a finger than a nose: The trigeminal motor and sensory innervation of the Schnauzenorgan in the elephantnose fish <i>Gnathonemus petersii</i> . <i>Journal of Comparative Neurology</i> , 2015, 523, 769-789.	1.6	17
21	Comparative histology of the adult electric organ among four species of the genus <i>Campylomormyrus</i> (Teleostei: Mormyridae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2015, 201, 357-374.	1.6	19
22	Motor patterns during active electrosensory acquisition. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 186.	2.0	25
23	Grouped retinæ and tapetal cups in some Teleostian fish: Occurrence, structure, and function. <i>Progress in Retinal and Eye Research</i> , 2014, 38, 43-69.	15.5	31
24	Spatial resolution of an eye containing a grouped retina: ganglion cell morphology and tectal physiology in the weakly electric fish <i>Gnathonemus petersii</i> . <i>Journal of Comparative Neurology</i> , 2013, 521, n/a-n/a.	1.6	9
25	Sensory flow shaped by active sensing: sensorimotor strategies in electric fish. <i>Journal of Experimental Biology</i> , 2013, 216, 2487-2500.	1.7	64
26	Editorial. <i>Journal of Physiology (Paris)</i> , 2013, 107, 1.	2.1	0
27	From static electric images to electric flow: Towards dynamic perceptual cues in active electroreception. <i>Journal of Physiology (Paris)</i> , 2013, 107, 95-106.	2.1	25
28	A grouped retina provides high temporal resolution in the weakly electric fish <i>Gnathonemus petersii</i> . <i>Journal of Physiology (Paris)</i> , 2013, 107, 84-94.	2.1	14
29	Monitoring of Single-Cell Responses in the Optic Tectum of Adult Zebrafish with Dextran-Coupled Calcium Dyes Delivered via Local Electroporation. <i>PLoS ONE</i> , 2013, 8, e62846.	2.5	14
30	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. <i>Science</i> , 2012, 336, 1700-1703.	12.6	71
31	Temporal precision and reliability in the velocity regime of a hair-cell sensory system: the mechanosensory lateral line of goldfish, <i>Carassius auratus</i> . <i>Journal of Neurophysiology</i> , 2012, 107, 2581-2593.	1.8	10
32	Coding of Stimuli by Ampullary Afferents in <i>Gnathonemus petersii</i> . <i>Journal of Neurophysiology</i> , 2010, 104, 1955-1968.	1.8	19
33	3-Dimensional scene perception during active electrolocation in a weakly electric pulse fish. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, 26.	2.0	53
34	Wake Tracking and the Detection of Vortex Rings by the Canal Lateral Line of Fish. <i>Physical Review Letters</i> , 2009, 103, 078102.	7.8	23
35	Magic trait Electric Organ Discharge (EOD). <i>Communicative and Integrative Biology</i> , 2009, 2, 329-331.	1.4	36
36	The Schnauzenorgan-response of <i>Gnathonemus petersii</i> . <i>Frontiers in Zoology</i> , 2009, 6, 21.	2.0	19

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37	Electrifying love: electric fish use species-specific discharge for mate recognition. <i>Biology Letters</i> , 2009, 5, 225-228.	2.3	82
38	Object localization through the lateral line system of fish: theory and experiment. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 1-17.	1.6	97
39	Receptive field properties of neurons in the electrosensory lateral line lobe of the weakly electric fish, <i>Gnathonemus petersii</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 1063-1075.	1.6	12
40	Electric imaging through active electrolocation: implication for the analysis of complex scenes. <i>Biological Cybernetics</i> , 2008, 98, 519-539.	1.3	45
41	Functional foveae in an electrosensory system. <i>Journal of Comparative Neurology</i> , 2008, 511, 342-359.	1.6	61
42	Editorial note. <i>Journal of Physiology (Paris)</i> , 2008, 102, 153.	2.1	1
43	Active sensing. <i>Communicative and Integrative Biology</i> , 2008, 1, 29-31.	1.4	2
44	Active sensing in a mormyrid fish: electric images and peripheral modifications of the signal carrier give evidence of dual foveation. <i>Journal of Experimental Biology</i> , 2008, 211, 921-934.	1.7	62
45	Etomidate Reduces Initiation of Backpropagating Dendritic Action Potentials: Implications for Sensory Processing and Synaptic Plasticity During Anesthesia. <i>Journal of Neurophysiology</i> , 2007, 97, 2373-2384.	1.8	9
46	Sensory and Motor Effects of Etomidate Anesthesia. <i>Journal of Neurophysiology</i> , 2006, 95, 1231-1243.	1.8	20
47	Neural responses of goldfish lateral line afferents to vortex motions. <i>Journal of Experimental Biology</i> , 2006, 209, 327-342.	1.7	58
48	Wie Fische Wasser fñhlen: Das Seitenliniensystem. <i>Biologie in Unserer Zeit</i> , 2004, 34, 358-365.	0.2	15
49	Coding of lateral line stimuli in the goldfish midbrain in still and running water. <i>Zoology</i> , 2004, 107, 135-151.	1.2	27
50	Effects of Running Water on Lateral Line Responses to Moving Objects. <i>Brain, Behavior and Evolution</i> , 2003, 61, 195-212.	1.7	29
51	RESPONSES OF PRIMARY AND SECONDARY LATERAL LINE UNITS TO DIPOLE STIMULI APPLIED UNDER STILL AND RUNNING WATER CONDITIONS. <i>Bioacoustics</i> , 2002, 12, 158-160.	1.7	8