Gerhard von der Emde

List of Publications by Year
in descending order

30	617	623734	610901
papers	citations	14 h-index	24 g-index

30	30	30	409
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Distance, shape and more: recognition of object features during active electrolocation in a weakly electric fish. Journal of Experimental Biology, 2007, 210, 3082-3095.	1.7	85
2	Imaging of Objects through active electrolocation in Gnathonemus petersii. Journal of Physiology (Paris), 2002, 96, 431-444.	2.1	56
3	3-Dimensional scene perception during active electrolocation in a weakly electric pulse fish. Frontiers in Behavioral Neuroscience, 2010, 4, 26.	2.0	53
4	Active electrolocation in Gnathonemus petersii: Behaviour, sensory performance, and receptor systems. Journal of Physiology (Paris), 2008, 102, 279-290.	2.1	50
5	Distance and shape: perception of the 3-dimensional world by weakly electric fish. Journal of Physiology (Paris), 2004, 98, 67-80.	2.1	40
6	Cannabinoid modulation of zebrafish fear learning and its functional analysis investigated by c-Fos expression. Pharmacology Biochemistry and Behavior, 2017, 153, 18-31.	2.9	40
7	Grouped retinae and tapetal cups in some Teleostian fish: Occurrence, structure, and function. Progress in Retinal and Eye Research, 2014, 38, 43-69.	15.5	31
8	Investigation of Collective Behaviour and Electrocommunication in the Weakly Electric Fish,Mormyrus rume, through a biomimetic Robotic Dummy Fish. Bioinspiration and Biomimetics, 2016, 11, 066009.	2.9	31
9	The endocannabinoid system and associative learning and memory in zebrafish. Behavioural Brain Research, 2015, 290, 61-69.	2.2	24
10	Electric-Color Sensing in Weakly Electric Fish Suggests Color Perception as a Sensory Concept beyond Vision. Current Biology, 2018, 28, 3648-3653.e2.	3.9	24
11	Evidence for mutual allocation of social attention through interactive signaling in a mormyrid weakly electric fish. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6852-6857.	7.1	22
12	The Schnauzenorgan-response of Gnathonemus petersii. Frontiers in Zoology, 2009, 6, 21.	2.0	19
13	Figureâ€“ground separation during active electrolocation in the weakly electric fish, Gnathonemus petersii. Journal of Physiology (Paris), 2013, 107, 72-83.	2.1	18
14	A Biomimetic Active Electrolocation Sensor for Detection of Atherosclerotic Lesions in Blood Vessels. IEEE Sensors Journal, 2012, 12, 325-331.	4.7	17
15	Dye coupling without gap junctions suggests excitatory connections of ?-aminobutyric acidergic neurons. Journal of Comparative Neurology, 2004, 468, 151-164.	1.6	14
16	A grouped retina provides high temporal resolution in the weakly electric fish Gnathonemus petersii. Journal of Physiology (Paris), 2013, 107, 84-94.	2.1	14
17	Social interactions between live and artificial weakly electric fish: Electrocommunication and locomotor behavior of Mormyrus rume proboscirostris towards a mobile dummy fish. PLoS ONE, 2017, 12, e0184622.	2.5	14
18	The Mormyrid Optic Tectum Is a Topographic Interface for Active Electrolocation and Visual Sensing. Frontiers in Neuroanatomy, 2018, 12, 79.	1.7	13

#	Article	IF	Citations
19	Electric discharge patterns in group-living weakly electric fish, Mormyrus rume (Mormyridae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.8	10
20	Estimation of distance and electric impedance of capacitive objects in the weakly electric fish, Gnathonemus petersii. Journal of Experimental Biology, 2017, 220, 3142-3153.	1.7	9
21	Electric signal synchronization as a behavioural strategy to generate social attention in small groups of mormyrid weakly electric fish and a mobile fish robot. Biological Cybernetics, 2021, 115, 599-613.	1.3	9
22	Responses of neurons in the electrosensory lateral line lobe of the weakly electric fish Gnathonemus petersii to simple and complex electrosensory stimuli. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2004, 190, 907-922.	1.6	6
23	Matched Filtering in African Weakly Electric Fish: Two Senses with Complementary Filters. , 2016, , 237-263.		4
24	Disembodying the invisible: electrocommunication and social interactions by passive reception of a moving playback signal. Journal of Experimental Biology, 2018, 221, .	1.7	4
25	Multisensory Object Detection in Weakly Electric Fish. , 2020, , 281-297.		4
26	Biomimetic sensors: Active electrolocation of weakly electric fish as a model for active sensing in technical systems. Journal of Bionic Engineering, 2007, 4, 85-90.	5.0	3
27	Non-visual orientation and communication by fishes using electrical fields: A model system for underwater robotics. , 2012, , .		2
28	Physiological evidence of sensory integration in the electrosensory lateral line lobe of Gnathonemus petersii. PLoS ONE, 2018, 13, e0194347.	2.5	1
29	Central connections of the trigeminal motor command system in the weakly electric Elephantnose fish (Gnathonemus petersii). Journal of Comparative Neurology, 2019, 527, 2703-2729.	1.6	0
30	Cross-modal sensory transfer: Bumble bees do it. Science, 2020, 367, 850-851.	12.6	0