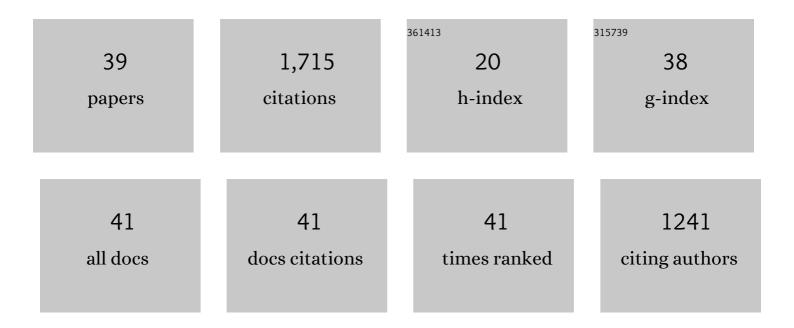
## Rüdiger Krahe

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Burst firing in sensory systems. Nature Reviews Neuroscience, 2004, 5, 13-23.	10.2	389
2	Representation of Acoustic Communication Signals by Insect Auditory Receptor Neurons. Journal of Neuroscience, 2001, 21, 3215-3227.	3.6	131
3	Communication in troubled waters: responses of fish communication systems to changing environments. Evolutionary Ecology, 2011, 25, 623-640.	1.2	120
4	Modeling signal and background components of electrosensory scenes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2005, 191, 331-345.	1.6	113
5	Neural maps in the electrosensory system of weakly electric fish. Current Opinion in Neurobiology, 2014, 24, 13-21.	4.2	105
6	Temporal Processing Across Multiple Topographic Maps in the Electrosensory System. Journal of Neurophysiology, 2008, 100, 852-867.	1.8	102
7	Statistics of the Electrosensory Input in the Freely Swimming Weakly Electric Fish <i>Apteronotus leptorhynchus</i> . Journal of Neuroscience, 2013, 33, 13758-13772.	3.6	71
8	Robustness and Variability of Neuronal Coding by Amplitude-Sensitive Afferents in the Weakly Electric FishEigenmannia. Journal of Neurophysiology, 2000, 84, 189-204.	1.8	68
9	Species differences in group size and electrosensory interference in weakly electric fishes: Implications for electrosensory processing. Behavioural Brain Research, 2010, 207, 368-376.	2.2	57
10	The energetics of electric organ discharge generation in gymnotiform weakly electric fish. Journal of Experimental Biology, 2013, 216, 2459-2468.	1.7	57
11	Statistics of Natural Communication Signals Observed in the Wild Identify Important Yet Neglected Stimulus Regimes in Weakly Electric Fish. Journal of Neuroscience, 2018, 38, 5456-5465.	3.6	51
12	Stimulus Encoding and Feature Extraction by Multiple Sensory Neurons. Journal of Neuroscience, 2002, 22, 2374-2382.	3.6	50
13	Electrical signalling of dominance in a wild population of electric fish. Biology Letters, 2011, 7, 197-200.	2.3	43
14	Muscarinic Receptors Control Frequency Tuning Through the Downregulation of an A-Type Potassium Current. Journal of Neurophysiology, 2007, 98, 1526-1537.	1.8	35
15	Energetic constraints on electric signalling in wave-type weakly electric fishes. Journal of Experimental Biology, 2011, 214, 4141-4150.	1.7	30
16	Neuromodulation of early electrosensory processing in gymnotiform weakly electric fish. Journal of Experimental Biology, 2013, 216, 2442-2450.	1.7	30
17	Temporal integration vs. parallel processing: coping with the variability of neuronal messages in directional hearing of insects. European Journal of Neuroscience, 2000, 12, 2147-2156.	2.6	29
18	Miocene and Pliocene colonization of the Central American Isthmus by the weakly electric fish <i><scp>B</scp>rachyhypopomus occidentalis</i> (Hypopomidae, Gymnotiformes). Journal of Biogeography, 2014, 41, 1520-1532.	3.0	28

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#	Article	IF	CITATIONS
19	Predators inhibit brain cell proliferation in natural populations of electric fish, <i>Brachyhypopomus occidentalis</i> . Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152113.	2.6	28
20	Burst Firing in the Electrosensory System of Gymnotiform Weakly Electric Fish: Mechanisms and Functional Roles. Frontiers in Computational Neuroscience, 2016, 10, 81.	2.1	24
21	Tracking activity patterns of a multispecies community of gymnotiform weakly electric fish in their neotropical habitat without tagging. Journal of Experimental Biology, 2020, 223, .	1.7	23
22	Driftâ€driven evolution of electric signals in a Neotropical knifefish. Evolution; International Journal of Organic Evolution, 2016, 70, 2134-2144.	2.3	18
23	Tempo and mode of allopatric divergence in the weakly electric fish Sternopygus dariensis in the Isthmus of Panama. Scientific Reports, 2019, 9, 18828.	3.3	15
24	Predation and Crypsis in the Evolution of Electric Signaling in Weakly Electric Fishes. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	12
25	Distribution of muscarinic acetylcholine receptor mRNA in the brain of the weakly electric fish <i>Apteronotus leptorhynchus</i> . Journal of Comparative Neurology, 2013, 521, 1054-1072.	1.6	11
26	Effects of hypoxia on swimming and sensing in a weakly electric fish. Journal of Experimental Biology, 2018, 221, .	1.7	11
27	Subsecond Sensory Modulation of Serotonin Levels in a Primary Sensory Area and Its Relation to Ongoing Communication Behavior in a Weakly Electric Fish. ENeuro, 2016, 3, ENEURO.0115-16.2016.	1.9	10
28	First record of Gymnotus henni (Albert, Crampton and Maldonado, 2003) in Panama: phylogenetic position and electric signal characterization. Check List, 2013, 9, 655.	0.4	9
29	Pattern of aromatase mRNA expression in the brain of a weakly electric fish, Apteronotus leptorhynchus. Journal of Chemical Neuroanatomy, 2018, 90, 70-79.	2.1	8
30	Effects of hypoxia on aerobic metabolism and active electrosensory acquisition in the African weakly electric fish <scp><i>Marcusenius victoriae</i></scp> . Journal of Fish Biology, 2020, 96, 496-505.	1.6	7
31	Long Rise Times of Acoustic Stimuli Improve Directional Hearing in Grasshoppers. Die Naturwissenschaften, 1997, 84, 168-170.	1.6	5
32	The effect of normoxia exposure on hypoxia tolerance and sensory sampling in a swamp-dwelling mormyrid fish. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 240, 110586.	1.8	5
33	Directional hearing is only weakly dependent on the rise time of acoustic stimuli. Journal of the Acoustical Society of America, 2000, 107, 1067-1070.	1.1	4
34	Mitogenomics of Central American weakly-electric fishes. Gene, 2019, 686, 164-170.	2.2	4
35	Distribution of the cholinergic nuclei in the brain of the weakly electric fish, <scp><i>Apteronotus leptorhynchus</i></scp> : Implications for sensory processing. Journal of Comparative Neurology, 2021, 529, 1810-1829.	1.6	3
36	Hypoxia acclimation increases novelty response strength during fast-starts in the African mormyrid, Marcusenius victoriae. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2017, 213, 36-45.	1.8	2

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#	Article	IF	CITATIONS
37	Evolutionary Drivers of Electric Signal Diversity. Springer Handbook of Auditory Research, 2019, , 191-226.	0.7	2
38	The weakly electric fish, Apteronotus albifrons, actively avoids experimentally induced hypoxia. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2021, 207, 369-379.	1.6	1
39	A Spark in the Dark: Uncovering Natural Activity Patterns of Mormyrid Weakly Electric Fish. Frontiers in Ecology and Evolution, 0, 10, .	2.2	1