

Gary J Rose

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,689
citations

279798

23
h-index

361022

35
g-index

39
all docs

39
docs citations

39
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term synaptic plasticity as a temporal filter. <i>Trends in Neurosciences</i> , 2001, 24, 381-385.	8.6	324
2	Auditory midbrain neurons that count. <i>Nature Neuroscience</i> , 2002, 5, 934-936.	14.8	124
3	Short-Term Synaptic Plasticity Contributes to the Temporal Filtering of Electrosensory Information. <i>Journal of Neuroscience</i> , 2000, 20, 7122-7130.	3.6	115
4	Processing amplitude-modulated sounds by the auditory midbrain of two species of toads: matched temporal filters. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1984, 154, 211-219.	1.6	97
5	Long-term temporal integration in the anuran auditory system. <i>Nature Neuroscience</i> , 1998, 1, 519-523.	14.8	81
6	Counting on Inhibition and Rate-Dependent Excitation in the Auditory System. <i>Journal of Neuroscience</i> , 2007, 27, 13384-13392.	3.6	69
7	Insights into neural mechanisms and evolution of behaviour from electric fish. <i>Nature Reviews Neuroscience</i> , 2004, 5, 943-951.	10.2	63
8	Neural coding of difference frequencies in the midbrain of the electric fish <i>Eigenmannia</i> : Reading the sense of rotation in an amplitude-phase plane. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1986, 158, 613-624.	1.6	57
9	Behavioural plasticity mediates aggression in choruses of the Pacific treefrog. <i>Animal Behaviour</i> , 1994, 47, 633-641.	1.9	55
10	Species specificity and temperature dependency of temporal processing by the auditory midbrain of two species of treefrogs. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1985, 157, 763-769.	1.6	53
11	Midbrain Auditory Neurons Integrate Excitation and Inhibition to Generate Duration Selectivity: An In Vivo Whole-Cell Patch Study in Anurans. <i>Journal of Neuroscience</i> , 2008, 28, 5481-5493.	3.6	52
12	Integration and recovery processes contribute to the temporal selectivity of neurons in the midbrain of the northern leopard frog, <i>Rana pipiens</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 923-937.	1.6	49
13	Species-typical songs in white-crowned sparrows tutored with only phrase pairs. <i>Nature</i> , 2004, 432, 753-758.	27.8	49
14	Plasticity of aggressive thresholds in <i>Hyla regilla</i> : discrete accommodation to encounter calls. <i>Animal Behaviour</i> , 1997, 53, 353-361.	1.9	40
15	New techniques for making whole-cell recording from CNS neurons in vivo. <i>Neuroscience Research</i> , 1996, 26, 89-94.	1.9	38
16	Interval-counting neurons in the anuran auditory midbrain: factors underlying diversity of interval tuning. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 97-108.	1.6	37
17	Pacific treefrogs use temporal integration to differentiate advertisement from encounter calls. <i>Animal Behaviour</i> , 2002, 63, 1183-1190.	1.9	34
18	Mechanisms of Long-Interval Selectivity in Midbrain Auditory Neurons: Roles of Excitation, Inhibition, and Plasticity. <i>Journal of Neurophysiology</i> , 2008, 100, 3407-3416.	1.8	34

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19	The numerical abilities of anurans and their neural correlates: insights from neuroethological studies of acoustic communication. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160512.	4.0	34
20	?Ancestral? neural mechanisms of electrolocation suggest a substrate for the evolution of the jamming avoidance response. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1987, 160, 491-500.	1.6	33
21	Aggressive Thresholds of Male Pacific Treefrogs for Advertisement Calls Vary with Amplitude of Neighbors' Calls. <i>Ethology</i> , 1991, 89, 244-252.	1.1	31
22	Time computations in anuran auditory systems. <i>Frontiers in Physiology</i> , 2014, 5, 206.	2.8	30
23	Species-specificity of temporal processing in the auditory midbrain of gray treefrogs: interval-counting neurons. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2015, 201, 485-503.	1.6	27
24	Phasic, suprathreshold excitation and sustained inhibition underlie neuronal selectivity for short-duration sounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1927-35.	7.1	23
25	Counting on dis-inhibition: a circuit motif for interval counting and selectivity in the anuran auditory system. <i>Journal of Neurophysiology</i> , 2015, 114, 2804-2815.	1.8	19
26	Discrimination of the sign of frequency differences by <i>Sternopygus</i> , an electric fish without a jamming avoidance response. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1991, 168, 461-467.	1.6	16
27	Differential distribution of ampullary and tuberous processing in the torus semicircularis of <i>Eigenmannia</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 170, 253-61.	1.6	16
28	Roles of syntax information in directing song development in white-crowned sparrows (<i>Zonotrichia</i>)	0.5	15
29	Function of the Amphibian Central Auditory System. , 2007, , 250-290.		15
30	Combining pharmacology and whole-cell patch recording from CNS neurons, in vivo. <i>Journal of Neuroscience Methods</i> , 2013, 213, 99-104.	2.5	11
31	Species specificity of temporal processing in the auditory midbrain of gray treefrogs: long-interval neurons. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2016, 202, 67-79.	1.6	11
32	Tutor model syntax influences the syntactical and phonological structure of crystallized songs of white-crowned sparrows. <i>Animal Behaviour</i> , 2008, 76, 1815-1827.	1.9	9
33	Neural basis of acoustic species recognition in a cryptic species complex. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	9
34	How auditory selectivity for sound timing arises: The diverse roles of GABAergic inhibition in shaping the excitation to interval-selective midbrain neurons. <i>Progress in Neurobiology</i> , 2021, 199, 101962.	5.7	6
35	Structure and Function of Neurons in the Complex of the Nucleus electrosensorius of <i>Sternopygus</i> and <i>Eigenmannia</i> : Diencephalic Substrates for the Evolution of the Jamming Avoidance Response. <i>Brain, Behavior and Evolution</i> , 2004, 64, 85-103.	1.7	5
36	Representation of Temporal Patterns of Signal Amplitude in the Anuran Auditory System and Electrosensory System. , 1995, , 1-24.		5

#	ARTICLE	IF	CITATIONS
37	Latency for facultative expression of male-typical courtship behaviour by female bluehead wrasses depends on social rank: The "priming/gating" hypothesis. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	3
38	Anuran Auditory Systems as Models for Understanding Sensory Processing and the Evolution of Communication. , 2020, , 138-148.		0