

Donald H Edwards

List of Publications by Year in descending order

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37
papers

1,705
citations

331670

21
h-index

345221

36
g-index

41
all docs

41
docs citations

41
times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrimination of bursts and tonic activity in multifunctional sensorimotor neural network using the extended hill-valley method. <i>Journal of Neurophysiology</i> , 2019, 122, 1073-1083.	1.8	1
2	Duality of 5-HT Effects on Crayfish Motoneurons. <i>Frontiers in Physiology</i> , 2019, 10, 1280.	2.8	3
3	Control of Cat Walking and Paw-Shake by a Multifunctional Central Pattern Generator. <i>Springer Series in Computational Neuroscience</i> , 2016, , 333-359.	0.3	7
4	The effect of sensory feedback on crayfish posture and locomotion: I. Experimental analysis of closing the loop. <i>Journal of Neurophysiology</i> , 2015, 113, 1763-1771.	1.8	11
5	The effect of sensory feedback on crayfish posture and locomotion: II. Neuromechanical simulation of closing the loop. <i>Journal of Neurophysiology</i> , 2015, 113, 1772-1783.	1.8	7
6	Spatial segregation of excitatory and inhibitory effects of 5-HT on crayfish motoneurons. <i>Journal of Neurophysiology</i> , 2013, 109, 2793-2802.	1.8	4
7	Neural Circuit Reconfiguration by Social Status. <i>Journal of Neuroscience</i> , 2012, 32, 5638-5645.	3.6	31
8	Paw-shake response and locomotion: can one CPG generate two different rhythmic behaviors?. <i>BMC Neuroscience</i> , 2012, 13, .	1.9	2
9	Non-Invasive Imaging of Neuroanatomical Structures and Neural Activation with High-Resolution MRI. <i>Frontiers in Behavioral Neuroscience</i> , 2011, 5, 16.	2.0	17
10	AnimatLab: A 3D graphics environment for neuromechanical simulations. <i>Journal of Neuroscience Methods</i> , 2010, 187, 280-288.	2.5	104
11	Neuromechanical simulation. <i>Frontiers in Behavioral Neuroscience</i> , 2010, 4, .	2.0	8
12	Control of tumbling during the locust jump. <i>Journal of Experimental Biology</i> , 2010, 213, 3378-3387.	1.7	36
13	Social Interactions Determine Postural Network Sensitivity to 5-HT. <i>Journal of Neuroscience</i> , 2010, 30, 5603-5616.	3.6	26
14	Serotonergic Modulation of Crayfish Hindgut. <i>Biological Bulletin</i> , 2009, 217, 50-64.	1.8	5
15	Conservation of structure, signaling and pharmacology between two serotonin receptor subtypes from decapod crustaceans, <i>Panulirus interruptus</i> and <i>Procambarus clarkii</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 92-105.	1.7	61
16	Serotonin Transduction Cascades Mediate Variable Changes in Pyloric Network Cycle Frequency in Response to the Same Modulatory Challenge. <i>Journal of Neurophysiology</i> , 2008, 99, 2844-2863.	1.8	28
17	Direct Benefits of Social Dominance in Juvenile Crayfish. <i>Biological Bulletin</i> , 2007, 213, 21-27.	1.8	67
18	Mechanisms of Serotonergic Facilitation of a Command Neuron. <i>Journal of Neurophysiology</i> , 2007, 98, 3494-3504.	1.8	19

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19	Social Dominance and Serotonin Receptor Genes in Crayfish. <i>Current Topics in Developmental Biology</i> , 2006, 74, 177-199.	2.2	24
20	The effects of social experience on the behavioral response to unexpected touch in crayfish. <i>Journal of Experimental Biology</i> , 2006, 209, 1355-1363.	1.7	28
21	Immunocytochemical mapping and quantification of expression of a putative type 1 serotonin receptor in the crayfish nervous system. <i>Journal of Comparative Neurology</i> , 2005, 484, 261-282.	1.6	40
22	The Retrograde Spread of Synaptic Potentials and Recruitment of Presynaptic Inputs. <i>Journal of Neuroscience</i> , 2005, 25, 3086-3094.	3.6	12
23	Escape behavior and escape circuit activation in juvenile crayfish during prey-predator interactions. <i>Journal of Experimental Biology</i> , 2004, 207, 1855-1863.	1.7	72
24	A crustacean serotonin receptor: Cloning and distribution in the thoracic ganglia of crayfish and freshwater prawn. <i>Journal of Comparative Neurology</i> , 2004, 473, 526-537.	1.6	65
25	Differential dye coupling reveals lateral giant escape circuit in crayfish. <i>Journal of Comparative Neurology</i> , 2003, 466, 1-13.	1.6	28
26	The neural basis of dominance hierarchy formation in crayfish. <i>Microscopy Research and Technique</i> , 2003, 60, 369-376.	2.2	37
27	Metamodulation of the Crayfish Escape Circuit. <i>Brain, Behavior and Evolution</i> , 2002, 60, 360-369.	1.7	41
28	Modulation of the Crayfish Escape Reflex-Physiology and Neuroethology. <i>Integrative and Comparative Biology</i> , 2002, 42, 705-715.	2.0	23
29	A Lateral Excitatory Network in the Escape Circuit of Crayfish. <i>Journal of Neuroscience</i> , 2002, 22, 9078-9085.	3.6	54
30	Crayfish Escape Behavior: Lessons Learned. , 2002, , 3-22.		6
31	Neural Mechanisms of Dominance Hierarchies in Crayfish. , 2002, , 124-135.		8
32	Patterns of Neural Circuit Activation and Behavior during Dominance Hierarchy Formation in Freely Behaving Crayfish. <i>Journal of Neuroscience</i> , 2001, 21, 2759-2767.	3.6	59
33	Dual and Opposing Modulatory Effects of Serotonin on Crayfish Lateral Giant Escape Command Neurons. <i>Journal of Neuroscience</i> , 2001, 21, 4523-4529.	3.6	72
34	Fifty years of a command neuron: the neurobiology of escape behavior in the crayfish. <i>Trends in Neurosciences</i> , 1999, 22, 153-161.	8.6	299
35	Crustacean studies and the early history of GABA. <i>Trends in Neurosciences</i> , 1999, 22, 347.	8.6	5
36	Neuronal Adaptations to Changes in the Social Dominance Status of Crayfish. <i>Journal of Neuroscience</i> , 1997, 17, 697-708.	3.6	137

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37	Serotonin, social status and aggression. <i>Current Opinion in Neurobiology</i> , 1997, 7, 812-819.	4.2	247