# 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 | Fifty years of a command neuron: the neurobiology of escape behavior in the crayfish. Trends in Neurosciences, 1999, 22, 153-161. | 8.6 | 299 |
| 2 | Serotonin, social status and aggression. Current Opinion in Neurobiology, 1997, 7, 812-819. | 4.2 | 247 |
| 3 | Neuronal Adaptations to Changes in the Social Dominance Status of Crayfish. Journal of Neuroscience, 1997, 17, 697-708. | 3.6 | 137 |
| 4 | AnimatLab: A 3D graphics environment for neuromechanical simulations. Journal of Neuroscience Methods, 2010, 187, 280-288. | 2.5 | 104 |
| 5 | Dual and Opposing Modulatory Effects of Serotonin on Crayfish Lateral Giant Escape Command Neurons. Journal of Neuroscience, 2001, 21, 4523-4529. | 3.6 | 72 |
| 6 | Escape behavior and escape circuit activation in juvenile crayfish during preyâ€“predator interactions. Journal of Experimental Biology, 2004, 207, 1855-1863. | 1.7 | 72 |
| 7 | Direct Benefits of Social Dominance in Juvenile Crayfish. Biological Bulletin, 2007, 213, 21-27. | 1.8 | 67 |
| 8 | A crustacean serotonin receptor: Cloning and distribution in the thoracic ganglia of crayfish and freshwater prawn. Journal of Comparative Neurology, 2004, 473, 526-537. | 1.6 | 65 |
| 9 | Conservation of structure, signaling and pharmacology between two serotonin receptor subtypes from decapod crustaceans, Panulirus interruptus and Procambarus clarkii. Journal of Experimental Biology, 2008, 211, 92-105. | 1.7 | 61 |
| 10 | Patterns of Neural Circuit Activation and Behavior during Dominance Hierarchy Formation in Freely Behaving Crayfish. Journal of Neuroscience, 2001, 21, 2759-2767. | 3.6 | 59 |
| 11 | A Lateral Excitatory Network in the Escape Circuit of Crayfish. Journal of Neuroscience, 2002, 22, 9078-9085. | 3.6 | 54 |
| 12 | Metamodulation of the Crayfish Escape Circuit. Brain, Behavior and Evolution, 2002, 60, 360-369. | 1.7 | 41 |
| 13 | Immunocytochemical mapping and quantification of expression of a putative type 1 serotonin receptor in the crayfish nervous system. Journal of Comparative Neurology, 2005, 484, 261-282. | 1.6 | 40 |
| 14 | The neural basis of dominance hierarchy formation in crayfish. Microscopy Research and Technique, 2003, 60, 369-376. | 2.2 | 37 |
| 15 | Control of tumbling during the locust jump. Journal of Experimental Biology, 2010, 213, 3378-3387. | 1.7 | 36 |
| 16 | Neural Circuit Reconfiguration by Social Status. Journal of Neuroscience, 2012, 32, 5638-5645. | 3.6 | 31 |
| 17 | Differential dye coupling reveals lateral giant escape circuit in crayfish. Journal of Comparative Neurology, 2003, 466, 1-13. | 1.6 | 28 |
| 18 | The effects of social experience on the behavioral response to unexpected touch in crayfish. Journal of Experimental Biology, 2006, 209, 1355-1363. | 1.7 | 28 |

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|---|---|---|---|
| 19 | Serotonin Transduction Cascades Mediate Variable Changes in Pyloric Network Cycle Frequency in Response to the Same Modulatory Challenge. Journal of Neurophysiology, 2008, 99, 2844-2863. | 1.8 | 28 |
| 20 | Social Interactions Determine Postural Network Sensitivity to 5-HT. Journal of Neuroscience, 2010, 30, 5603-5616. | 3.6 | 26 |
| 21 | Social Dominance and Serotonin Receptor Genes in Crayfish. Current Topics in Developmental Biology, 2006, 74, 177-199. | 2.2 | 24 |
| 22 | Modulation of the Crayfish Escape Reflex--Physiology and Neuroethology. Integrative and Comparative Biology, 2002, 42, 705-715. | 2.0 | 23 |
| 23 | Mechanisms of Serotonergic Facilitation of a Command Neuron. Journal of Neurophysiology, 2007, 98, 3494-3504. | 1.8 | 19 |
| 24 | Non-Invasive Imaging of Neuroanatomical Structures and Neural Activation with High-Resolution MRI. Frontiers in Behavioral Neuroscience, 2011, 5, 16. | 2.0 | 17 |
| 25 | The Retrograde Spread of Synaptic Potentials and Recruitment of Presynaptic Inputs. Journal of Neuroscience, 2005, 25, 3086-3094. | 3.6 | 12 |
| 26 | The effect of sensory feedback on crayfish posture and locomotion: I. Experimental analysis of closing the loop. Journal of Neurophysiology, 2015, 113, 1763-1771. | 1.8 | 11 |
| 27 | Neuromechanical simulation. Frontiers in Behavioral Neuroscience, 2010, 4, . | 2.0 | 8 |
| 28 | Neural Mechanisms of Dominance Hierarchies in Crayfish. , 2002, , 124-135. | | 8 |
| 29 | The effect of sensory feedback on crayfish posture and locomotion: II. Neuromechanical simulation of closing the loop. Journal of Neurophysiology, 2015, 113, 1772-1783. | 1.8 | 7 |
| 30 | Control of Cat Walking and Paw-Shake by a Multifunctional Central Pattern Generator. Springer Series in Computational Neuroscience, 2016, , 333-359. | 0.3 | 7 |
| 31 | Crayfish Escape Behavior: Lessons Learned. , 2002, , 3-22. | | 6 |
| 32 | Crustacean studies and the early history of GABA. Trends in Neurosciences, 1999, 22, 347. | 8.6 | 5 |
| 33 | Serotonergic Modulation of Crayfish Hindgut. Biological Bulletin, 2009, 217, 50-64. | 1.8 | 5 |
| 34 | Spatial segregation of excitatory and inhibitory effects of 5-HT on crayfish motoneurons. Journal of Neurophysiology, 2013, 109, 2793-2802. | 1.8 | 4 |
| 35 | Duality of 5-HT Effects on Crayfish Motoneurons. Frontiers in Physiology, 2019, 10, 1280. | 2.8 | 3 |
| 36 | Paw-shake response and locomotion: can one CPG generate two different rhythmic behaviors?. BMC Neuroscience, 2012, 13, . | 1.9 | 2 |

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|---|---|---|---|
| 37 | Discrimination of bursts and tonic activity in multifunctional sensorimotor neural network using the extended hill-valley method. Journal of Neurophysiology, 2019, 122, 1073-1083. | 1.8 | 1 |