Patrick D Roberts

List of Publications by Year
in descending order

26 papers	821 citations	567281 15 h-index	552781 26 g-index
26 all docs	26 docs citations	26 times ranked	604 citing authors

#	Article	IF	Citations
1	Responses to Social Vocalizations in the Dorsal Cochlear Nucleus of Mice. Frontiers in Systems Neuroscience, 2015, 9, 172.	2.5	22
2	Inhibition shapes selectivity to vocalizations in the inferior colliculus of awake mice. Frontiers in Neural Circuits, 2012, 6, 73.	2.8	34
3	Anti-Hebbian Spike-Timing-Dependent Plasticity and Adaptive Sensory Processing. Frontiers in Computational Neuroscience, 2010, 4, 156.	2.1	24
4	Efficient Encoding of Vocalizations in the Auditory Midbrain. Journal of Neuroscience, 2010, 30, 802-819.	3.6	81
5	Design principles of sensory processing in cerebellum-like structures. Biological Cybernetics, 2008, 98, 491-507.	1.3	26
6	An implementation of reinforcement learning based on spike timing dependent plasticity. Biological Cybernetics, 2008, 99, 517-523.	1.3	11
7	Temporal and Frequency Characteristics of Cartwheel Cells in the Dorsal Cochlear Nucleus of the Awake Mouse. Journal of Neurophysiology, 2007, 98, 744-756.	1.8	41
8	Responses to Social Vocalizations in the Inferior Colliculus of the Mustached Bat Are Influenced by Secondary Tuning Curves. Journal of Neurophysiology, 2007, 98, 3461-3472.	1.8	36
9	Stability of complex spike timing-dependent plasticity in cerebellar learning. Journal of Computational Neuroscience, 2007, 22, 283-296.	1.0	8
10	Model of auditory prediction in the dorsal cochlear nucleus via spike-timing dependent plasticity. Neurocomputing, 2006, 69, 1191-1194.	5.9	7
11	Dynamic regulation of spike-timing dependent plasticity in electrosensory processing. Neurocomputing, 2006, 69, 1195-1198.	5.9	5
12	Effects of Sensing Behavior on a Latency Code. Journal of Neuroscience, 2006, 26, 8221-8234.	3.6	22
13	Recurrent neural network generates a basis for sensory image cancellation. Neurocomputing, 2005, 65-66, 237-242.	5.9	5
14	Recurrent biological neural networks: The weak and noisy limit. Physical Review E, 2004, 69, 031910.	2.1	10
15	Random walks for spike-timing-dependent plasticity. Physical Review E, 2004, 70, 021916.	2.1	5
16	Stability of negative-image equilibria in spike-timing-dependent plasticity. Physical Review E, 2003, 68, 021923.	2.1	15
17	The Mormyromast Region of the Mormyrid Electrosensory Lobe. II. Responses to Input From Central Sources. Journal of Neurophysiology, 2003, 90, 1211-1223.	1.8	24
18	The Mormyromast Region of the Mormyrid Electrosensory Lobe. I. Responses to Corollary Discharge and Electrosensory Stimuli. Journal of Neurophysiology, 2003, 90, 1193-1210.	1.8	57

#	Article	IF	Citations
19	Active control of spike-timing dependent synaptic plasticity in an electrosensory system. Journal of Physiology (Paris), 2002, 96, 445-449.	2.1	6
20	Spike timing dependent synaptic plasticity in biological systems. Biological Cybernetics, 2002, 87, 392-403.	1.3	131
21	Mutual inhibition increases adaptation rate in an electrosensory system. Neurocomputing, 2001, 38-40, 845-850.	5.9	1
22	Electrosensory response mechanisms in mormyrid electric fish. Neurocomputing, 2000, 32-33, 243-248.	5.9	3
23	Computational consequences of temporally asymmetric learning rules: II. Sensory image cancellation. Journal of Computational Neuroscience, 2000, 9, 67-83.	1.0	104
24	Modeling Inhibitory Plasticity in the Electrosensory System of Mormyrid Electric Fish. Journal of Neurophysiology, 2000, 84, 2035-2047.	1.8	16
25	Dynamics of temporal learning rules. Physical Review E, 2000, 62, 4077-4082.	2.1	18
26	Computational consequences of temporally asymmetric learning rules: I. Differential hebbian learning. Journal of Computational Neuroscience, 1999, 7, 235-246.	1.0	109