

# Patrick D Roberts

## List of Publications by Year in descending order

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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	Spike timing dependent synaptic plasticity in biological systems. <i>Biological Cybernetics</i> , 2002, 87, 392-403.	1.3	131
2	Computational consequences of temporally asymmetric learning rules: I. Differential hebbian learning. <i>Journal of Computational Neuroscience</i> , 1999, 7, 235-246.	1.0	109
3	Computational consequences of temporally asymmetric learning rules: II. Sensory image cancellation. <i>Journal of Computational Neuroscience</i> , 2000, 9, 67-83.	1.0	104
4	Efficient Encoding of Vocalizations in the Auditory Midbrain. <i>Journal of Neuroscience</i> , 2010, 30, 802-819.	3.6	81
5	The Mormyromast Region of the Mormyrid Electrosensory Lobe. I. Responses to Corollary Discharge and Electrosensory Stimuli. <i>Journal of Neurophysiology</i> , 2003, 90, 1193-1210.	1.8	57
6	Temporal and Frequency Characteristics of Cartwheel Cells in the Dorsal Cochlear Nucleus of the Awake Mouse. <i>Journal of Neurophysiology</i> , 2007, 98, 744-756.	1.8	41
7	Responses to Social Vocalizations in the Inferior Colliculus of the Mustached Bat Are Influenced by Secondary Tuning Curves. <i>Journal of Neurophysiology</i> , 2007, 98, 3461-3472.	1.8	36
8	Inhibition shapes selectivity to vocalizations in the inferior colliculus of awake mice. <i>Frontiers in Neural Circuits</i> , 2012, 6, 73.	2.8	34
9	Design principles of sensory processing in cerebellum-like structures. <i>Biological Cybernetics</i> , 2008, 98, 491-507.	1.3	26
10	The Mormyromast Region of the Mormyrid Electrosensory Lobe. II. Responses to Input From Central Sources. <i>Journal of Neurophysiology</i> , 2003, 90, 1211-1223.	1.8	24
11	Anti-Hebbian Spike-Timing-Dependent Plasticity and Adaptive Sensory Processing. <i>Frontiers in Computational Neuroscience</i> , 2010, 4, 156.	2.1	24
12	Effects of Sensing Behavior on a Latency Code. <i>Journal of Neuroscience</i> , 2006, 26, 8221-8234.	3.6	22
13	Responses to Social Vocalizations in the Dorsal Cochlear Nucleus of Mice. <i>Frontiers in Systems Neuroscience</i> , 2015, 9, 172.	2.5	22
14	Dynamics of temporal learning rules. <i>Physical Review E</i> , 2000, 62, 4077-4082.	2.1	18
15	Modeling Inhibitory Plasticity in the Electrosensory System of Mormyrid Electric Fish. <i>Journal of Neurophysiology</i> , 2000, 84, 2035-2047.	1.8	16
16	Stability of negative-image equilibria in spike-timing-dependent plasticity. <i>Physical Review E</i> , 2003, 68, 021923.	2.1	15
17	An implementation of reinforcement learning based on spike timing dependent plasticity. <i>Biological Cybernetics</i> , 2008, 99, 517-523.	1.3	11
18	Recurrent biological neural networks: The weak and noisy limit. <i>Physical Review E</i> , 2004, 69, 031910.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Stability of complex spike timing-dependent plasticity in cerebellar learning. <i>Journal of Computational Neuroscience</i> , 2007, 22, 283-296.	1.0	8
20	Model of auditory prediction in the dorsal cochlear nucleus via spike-timing dependent plasticity. <i>Neurocomputing</i> , 2006, 69, 1191-1194.	5.9	7
21	Active control of spike-timing dependent synaptic plasticity in an electrosensory system. <i>Journal of Physiology (Paris)</i> , 2002, 96, 445-449.	2.1	6
22	Random walks for spike-timing-dependent plasticity. <i>Physical Review E</i> , 2004, 70, 021916.	2.1	5
23	Recurrent neural network generates a basis for sensory image cancellation. <i>Neurocomputing</i> , 2005, 65-66, 237-242.	5.9	5
24	Dynamic regulation of spike-timing dependent plasticity in electrosensory processing. <i>Neurocomputing</i> , 2006, 69, 1195-1198.	5.9	5
25	Electrosensory response mechanisms in mormyrid electric fish. <i>Neurocomputing</i> , 2000, 32-33, 243-248.	5.9	3
26	Mutual inhibition increases adaptation rate in an electrosensory system. <i>Neurocomputing</i> , 2001, 38-40, 845-850.	5.9	1