Bartlett W Mel

List of Publications by Year
in descending order

23	3,248	430874	642732
papers	citations	18 h-index	23 g-index

24	24	24	2109
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Computational subunits in thin dendrites of pyramidal cells. Nature Neuroscience, 2004, 7, 621-627.	14.8	671
2	Pyramidal Neuron as Two-Layer Neural Network. Neuron, 2003, 37, 989-999.	8.1	622
3	Impact of Active Dendrites and Structural Plasticity on the Memory Capacity of Neural Tissue. Neuron, 2001, 29, 779-796.	8.1	520
4	Arithmetic of Subthreshold Synaptic Summation in a Model CA1 Pyramidal Cell. Neuron, 2003, 37, 977-987.	8.1	383
5	NMDA-Based Pattern Discrimination in a Modeled Cortical Neuron. Neural Computation, 1992, 4, 502-517.	2.2	157
6	Encoding and Decoding Bursts by NMDA Spikes in Basal Dendrites of Layer 5 Pyramidal Neurons. Journal of Neuroscience, 2009, 29, 11891-11903.	3.6	130
7	A model for intradendritic computation of binocular disparity. Nature Neuroscience, 2000, 3, 54-63.	14.8	126
8	Translation-Invariant Orientation Tuning in Visual â€œComplexâ€•Cells Could Derive from Intradendritic Computations. Journal of Neuroscience, 1998, 18, 4325-4334.	3.6	123
9	Location-Dependent Effects of Inhibition on Local Spiking in Pyramidal Neuron Dendrites. PLoS Computational Biology, 2012, 8, e1002550.	3.2	113
10	Location-Dependent Excitatory Synaptic Interactions in Pyramidal Neuron Dendrites. PLoS Computational Biology, 2012, 8, e1002599.	3.2	74
11	An Augmented Two-Layer Model Captures Nonlinear Analog Spatial Integration Effects in Pyramidal Neuron Dendrites. Proceedings of the IEEE, 2014, 102, 782-798.	21.3	68
12	Capacity-Enhancing Synaptic Learning Rules in a Medial Temporal Lobe Online Learning Model. Neuron, 2009, 62, 31-41.	8.1	53
13	Synaptic plasticity in dendrites: complications and coping strategies. Current Opinion in Neurobiology, 2017, 43, 177-186.	4.2	37
14	On the Fight Between Excitation and Inhibition: Location Is Everything. Science Signaling, 2004, 2004, pe44-pe44.	3.6	34
15	NMDA spikes mediate amplification of inputs in the rat piriform cortex. ELife, 2018, 7, .	6.0	34
16	Think positive to find parts. Nature, 1999, 401, 759-760.	27.8	26
17	Have We Been Hebbing Down the Wrong Path?. Neuron, 2002, 34, 175-177.	8.1	25
18	Minimizing Binding Errors Using Learned Conjunctive Features. Neural Computation, 2000, 12, 247-278.	2.2	19

#	Article	IF	Citations
19	Choice and Value Flexibility Jointly Contribute to the Capacity of a Subsampled Quadratic Classifier. Neural Computation, 2000, 12, 1189-1205.	2.2	11
20	How Dendrites Affect Online Recognition Memory. PLoS Computational Biology, 2019, 15, e1006892.	3.2	8
21	NEUROBIOLOGY: What the Synapse Tells the Neuron. Science, 2002, 295, 1845-1846.	12.6	6
22	Classical-Contextual Interactions in V1 May Rely on Dendritic Computations. Neuroscience, 2022, 489, 234-250.	2.3	4
23	Optimizing a neuron for reliable dendritic subunit pooling. Neuroscience, 2021, , .	2.3	1