David B Jaffe

List of Publications by Year
in descending order

30 papers	2,398 citations	304743 22 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	2207 citing authors

#	Article	IF	Citations
1	The spread of Na+ spikes determines the pattern of dendritic Ca2+ entry into hippocampal neurons. Nature, 1992, 357, 244-246.	27.8	397
2	Synaptically activated increases in Ca2+ concentration in hippocampal CA1 pyramidal cells are primarily due to voltage-gated Ca2+ channels. Neuron, 1992, 9, 1163-1173.	8.1	254
3	Dendritic attenuation of synaptic potentials and currents: the role of passive membrane properties. Trends in Neurosciences, 1994, 17, 161-166.	8.6	249
4	Dopamine Decreases the Excitability of Layer V Pyramidal Cells in the Rat Prefrontal Cortex. Journal of Neuroscience, 1998, 18, 9139-9151.	3.6	186
5	Passive Normalization of Synaptic Integration Influenced by Dendritic Architecture. Journal of Neurophysiology, 1999, 82, 3268-3285.	1.8	139
6	Oxidative modification of M-type K+ channels as a mechanism of cytoprotective neuronal silencing. EMBO Journal, 2006, 25, 4996-5004.	7.8	115
7	Distinct classes of pyramidal cells exhibit mutually exclusive firing patterns in hippocampal area CA3b. Hippocampus, 2008, 18, 411-424.	1.9	109
8	Control of somatic membrane potential in nociceptive neurons and its implications for peripheral nociceptive transmission. Pain, 2014, 155, 2306-2322.	4.2	108
9	Multiple Effects of Dopamine on Layer V Pyramidal Cell Excitability in Rat Prefrontal Cortex. Journal of Neurophysiology, 2001, 86, 586-595.	1.8	83
10	Angiotensin II regulates neuronal excitability via phosphatidylinositol 4,5-bisphosphate-dependent modulation of Kv7 (M-type) K+channels. Journal of Physiology, 2006, 575, 49-67.	2.9	78
11	Passive electrotonic properties of rat hippocampal CA3 interneurones. Journal of Physiology, 1999, 515, 743-756.	2.9	75
12	Confocal laser scanning microscopy reveals voltage-gated calcium signals within hippocampal dendritic spines. Journal of Neurobiology, 1994, 25, 220-233.	3.6	71
13	Spike propagation through the dorsal root ganglia in an unmyelinated sensory neuron: a modeling study. Journal of Neurophysiology, 2015, 114, 3140-3153.	1.8	68
14	Inositol Triphosphate-Mediated Ca²⁺Signals Direct Purinergic P2Y Receptor Regulation of Neuronal Ion Channels. Journal of Neuroscience, 2007, 27, 8914-8926.	3.6	67
15	Mâ€type K⁺ channels in peripheral nociceptive pathways. British Journal of Pharmacology, 2018, 175, 2158-2172.	5.4	53
16	Mossy fiber synaptic transmission: communication from the dentate gyrus to area CA3. Progress in Brain Research, 2007, 163, 109-805.	1.4	47
17	Current understanding of iberiotoxin-resistant BK channels in the nervous system. Frontiers in Physiology, 2014, 5, 382.	2.8	42
18	Protein Synthesis Inhibition Blocks the Induction of Mossy Fiber Long-Term PotentiationIn Vivo. Journal of Neuroscience, 2000, 20, 8528-8532.	3.6	37

#	Article	IF	Citations
19	Knockout of the BK Î²₄-subunit promotes a functional coupling of BK channels and ryanodine receptors that mediate a fAHP-induced increase in excitability. Journal of Neurophysiology, 2016, 116, 456-465.	1.8	35
20	The effects of cholecystokinin and cholecystokinin antagonists on synaptic function in the CA1 region of the rat hippocampal slice. Brain Research, 1987, 415, 197-203.	2.2	28
21	Calcium Dynamics in Thorny Excrescences of CA3 Pyramidal Neurons. Journal of Neurophysiology, 1997, 78, 10-18.	1.8	26
22	Confocal imaging of dendritic Ca2+ transients in hippocampal brain slices during simultaneous current- and voltage-clamp recording. Microscopy Research and Technique, 1994, 29, 279-289.	2.2	23
23	Downregulation of KCNMB4 expression and changes in BK channel subtype in hippocampal granule neurons following seizure activity. PLoS ONE, 2017, 12, e0188064.	2.5	21
24	Calcium-Dependent Spike-Frequency Accommodation in Hippocampal CA3 Nonpyramidal Neurons. Journal of Neurophysiology, 1998, 80, 983-988.	1.8	20
25	IGF2 knockout mice are resistant to kainic acid-induced seizures and neurodegeneration. Brain Research, 2007, 1175, 85-95.	2.2	18
26	A computational model for how the fast afterhyperpolarization paradoxically increases gain in regularly firing neurons. Journal of Neurophysiology, 2018, 119, 1506-1520.	1.8	17
27	Cholecystokinin blocks some effects of kainic acid in CA3 region of hippocampal slices. Peptides, 1991, 12, 127-129.	2.4	15
28	Calcium Imaging in Hippocampal Neurons using Confocal Microscopy^a. Annals of the New York Academy of Sciences, 1994, 747, 313-324.	3.8	13
29	CA3 Cells: Detailed and Simplified Pyramidal Cell Models. , 2010, , 353-374.		3
30	Modeling the Passive Properties of Nonpyramidal Neurons in Hippocampal Area CA3. , 1997, , 59-64.		1