

# David B Jaffe

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | M-type K <sup>+</sup> channels in peripheral nociceptive pathways. <i>British Journal of Pharmacology</i> , 2018, 175, 2158-2172.   | 5.4 | 53        |
| 2  | A computational model for how the fast afterhyperpolarization paradoxically increases gain in regularly firing neurons. <i>Journal of Neurophysiology</i> , 2018, 119, 1506-1520.   | 1.8 | 17        |
| 3  | Downregulation of KCNMB4 expression and changes in BK channel subtype in hippocampal granule neurons following seizure activity. <i>PLoS ONE</i> , 2017, 12, e0188064.  | 2.5 | 21        |
| 4  | Knockout of the BK $\beta_4$ -subunit promotes a functional coupling of BK channels and ryanodine receptors that mediate a fAHP-induced increase in excitability. <i>Journal of Neurophysiology</i> , 2016, 116, 456-465. | 1.8 | 35        |
| 5  | Spike propagation through the dorsal root ganglia in an unmyelinated sensory neuron: a modeling study. <i>Journal of Neurophysiology</i> , 2015, 114, 3140-3153.  | 1.8 | 68        |
| 6  | Control of somatic membrane potential in nociceptive neurons and its implications for peripheral nociceptive transmission. <i>Pain</i> , 2014, 155, 2306-2322.  | 4.2 | 108       |
| 7  | Current understanding of iberiotoxin-resistant BK channels in the nervous system. <i>Frontiers in Physiology</i> , 2014, 5, 382.  | 2.8 | 42        |
| 8  | CA3 Cells: Detailed and Simplified Pyramidal Cell Models. , 2010, , 353-374.  |     | 3         |
| 9  | Distinct classes of pyramidal cells exhibit mutually exclusive firing patterns in hippocampal area CA3b. <i>Hippocampus</i> , 2008, 18, 411-424.  | 1.9 | 109       |
| 10 | Inositol Triphosphate-Mediated Ca <sup>2+</sup> Signals Direct Purinergic P2Y Receptor Regulation of Neuronal Ion Channels. <i>Journal of Neuroscience</i> , 2007, 27, 8914-8926.   | 3.6 | 67        |
| 11 | Mossy fiber synaptic transmission: communication from the dentate gyrus to area CA3. <i>Progress in Brain Research</i> , 2007, 163, 109-805.  | 1.4 | 47        |
| 12 | IGF2 knockout mice are resistant to kainic acid-induced seizures and neurodegeneration. <i>Brain Research</i> , 2007, 1175, 85-95.  | 2.2 | 18        |
| 13 | Oxidative modification of M-type K <sup>+</sup> channels as a mechanism of cytoprotective neuronal silencing. <i>EMBO Journal</i> , 2006, 25, 4996-5004.  | 7.8 | 115       |
| 14 | Angiotensin II regulates neuronal excitability via phosphatidylinositol 4,5-bisphosphate-dependent modulation of Kv7 (M-type) K <sup>+</sup> channels. <i>Journal of Physiology</i> , 2006, 575, 49-67.                   | 2.9 | 78        |
| 15 | Multiple Effects of Dopamine on Layer V Pyramidal Cell Excitability in Rat Prefrontal Cortex. <i>Journal of Neurophysiology</i> , 2001, 86, 586-595.  | 1.8 | 83        |
| 16 | Protein Synthesis Inhibition Blocks the Induction of Mossy Fiber Long-Term Potentiation In Vivo. <i>Journal of Neuroscience</i> , 2000, 20, 8528-8532.  | 3.6 | 37        |
| 17 | Passive Normalization of Synaptic Integration Influenced by Dendritic Architecture. <i>Journal of Neurophysiology</i> , 1999, 82, 3268-3285.  | 1.8 | 139       |
| 18 | Passive electrotonic properties of rat hippocampal CA3 interneurons. <i>Journal of Physiology</i> , 1999, 515, 743-756.   | 2.9 | 75        |

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|----|---|------|-----------|
| 19 | Calcium-Dependent Spike-Frequency Accommodation in Hippocampal CA3 Nonpyramidal Neurons. <i>Journal of Neurophysiology</i> , 1998, 80, 983-988.   | 1.8  | 20        |
| 20 | Dopamine Decreases the Excitability of Layer V Pyramidal Cells in the Rat Prefrontal Cortex. <i>Journal of Neuroscience</i> , 1998, 18, 9139-9151.  | 3.6  | 186       |
| 21 | Calcium Dynamics in Thorny Excrescences of CA3 Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 1997, 78, 10-18.  | 1.8  | 26        |
| 22 | Modeling the Passive Properties of Nonpyramidal Neurons in Hippocampal Area CA3. , 1997, , 59-64.   |      | 1         |
| 23 | Confocal imaging of dendritic Ca <sup>2+</sup> transients in hippocampal brain slices during simultaneous current- and voltage-clamp recording. <i>Microscopy Research and Technique</i> , 1994, 29, 279-289. | 2.2  | 23        |
| 24 | Confocal laser scanning microscopy reveals voltage-gated calcium signals within hippocampal dendritic spines. <i>Journal of Neurobiology</i> , 1994, 25, 220-233.   | 3.6  | 71        |
| 25 | Dendritic attenuation of synaptic potentials and currents: the role of passive membrane properties. <i>Trends in Neurosciences</i> , 1994, 17, 161-166.   | 8.6  | 249       |
| 26 | Calcium Imaging in Hippocampal Neurons using Confocal Microscopy <sup>a</sup> . <i>Annals of the New York Academy of Sciences</i> , 1994, 747, 313-324.   | 3.8  | 13        |
| 27 | Synaptically activated increases in Ca <sup>2+</sup> concentration in hippocampal CA1 pyramidal cells are primarily due to voltage-gated Ca <sup>2+</sup> channels. <i>Neuron</i> , 1992, 9, 1163-1173.       | 8.1  | 254       |
| 28 | The spread of Na <sup>+</sup> spikes determines the pattern of dendritic Ca <sup>2+</sup> entry into hippocampal neurons. <i>Nature</i> , 1992, 357, 244-246.   | 27.8 | 397       |
| 29 | Cholecystokinin blocks some effects of kainic acid in CA3 region of hippocampal slices. <i>Peptides</i> , 1991, 12, 127-129.  | 2.4  | 15        |
| 30 | The effects of cholecystokinin and cholecystokinin antagonists on synaptic function in the CA1 region of the rat hippocampal slice. <i>Brain Research</i> , 1987, 415, 197-203.                               | 2.2  | 28        |