

Daniel Johnston

List of Publications by Year in descending order

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64
papers

10,166
citations

57758

44
h-index

110387

64
g-index

65
all docs

65
docs citations

65
times ranked

6129
citing authors

#	ARTICLE	IF	CITATIONS
1	K ⁺ channel regulation of signal propagation in dendrites of hippocampal pyramidal neurons. <i>Nature</i> , 1997, 387, 869-875.	27.8	1,238
2	A Synaptically Controlled, Associative Signal for Hebbian Plasticity in Hippocampal Neurons. <i>Science</i> , 1997, 275, 209-213.	12.6	1,237
3	Pharmacological upregulation of h-channels reduces the excitability of pyramidal neuron dendrites. <i>Nature Neuroscience</i> , 2002, 5, 767-774.	14.8	404
4	Acquired Dendritic Channelopathy in Temporal Lobe Epilepsy. <i>Science</i> , 2004, 305, 532-535.	12.6	402
5	The spread of Na ⁺ spikes determines the pattern of dendritic Ca ²⁺ entry into hippocampal neurons. <i>Nature</i> , 1992, 357, 244-246.	27.8	397
6	LTP is accompanied by an enhanced local excitability of pyramidal neuron dendrites. <i>Nature Neuroscience</i> , 2004, 7, 126-135.	14.8	378
7	Activity-dependent decrease of excitability in rat hippocampal neurons through increases in I _h . <i>Nature Neuroscience</i> , 2005, 8, 1542-1551.	14.8	337
8	Noradrenaline and \hat{I}^2 -adrenoceptor agonists increase activity of voltage-dependent calcium channels in hippocampal neurons. <i>Nature</i> , 1987, 327, 620-622.	27.8	282
9	Seizure-Induced Plasticity of h Channels in Entorhinal Cortical Layer III Pyramidal Neurons. <i>Neuron</i> , 2004, 44, 495-508.	8.1	269
10	Projection-Specific Neuromodulation of Medial Prefrontal Cortex Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 16922-16937.	3.6	268
11	ELECTRICAL AND CALCIUM SIGNALING IN DENDRITES OF HIPPOCAMPAL PYRAMIDAL NEURONS. <i>Annual Review of Physiology</i> , 1998, 60, 327-346.	13.1	267
12	Dendritic K ⁺ channels contribute to spike-timing dependent long-term potentiation in hippocampal pyramidal neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8366-8371.	7.1	267
13	Voltage clamp discloses slow inward current in hippocampal burst-firing neurones. <i>Nature</i> , 1980, 286, 391-393.	27.8	249
14	Dendritic potassium channels in hippocampal pyramidal neurons. <i>Journal of Physiology</i> , 2000, 525, 75-81.	2.9	246
15	Slow Recovery from Inactivation of Na ⁺ Channels Underlies the Activity-Dependent Attenuation of Dendritic Action Potentials in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neuroscience</i> , 1997, 17, 6512-6521.	3.6	242
16	Long-Term Potentiation in Rat Hippocampal Neurons Is Accompanied by Spatially Widespread Changes in Intrinsic Oscillatory Dynamics and Excitability. <i>Neuron</i> , 2007, 56, 1061-1075.	8.1	234
17	Active dendrites, potassium channels and synaptic plasticity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 667-674.	4.0	226
18	Plasticity of Intrinsic Excitability during Long-Term Depression Is Mediated through mGluR-Dependent Changes in I _h in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2007, 27, 13926-13937.	3.6	180

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19	Active dendrites: colorful wings of the mysterious butterflies. <i>Trends in Neurosciences</i> , 2008, 31, 309-316.	8.6	170
20	The h Channel Mediates Location Dependence and Plasticity of Intrinsic Phase Response in Rat Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 5846-5860.	3.6	164
21	L-Type Calcium Channels Are Required for One Form of Hippocampal Mossy Fiber LTP. <i>Journal of Neurophysiology</i> , 1998, 79, 2181-2190.	1.8	146
22	Neuromodulation of Dendritic Action Potentials. <i>Journal of Neurophysiology</i> , 1999, 81, 408-411.	1.8	140
23	Intrinsic excitability of CA1 pyramidal neurones from the rat dorsal and ventral hippocampus. <i>Journal of Physiology</i> , 2012, 590, 5707-5722.	2.9	135
24	Temporal synchrony and gamma-to-theta power conversion in the dendrites of CA1 pyramidal neurons. <i>Nature Neuroscience</i> , 2013, 16, 1812-1820.	14.8	128
25	Constitutively Active G-Protein-Gated Inwardly Rectifying K ⁺ Channels in Dendrites of Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 3787-3792.	3.6	122
26	Optogenetics: 10 years after ChR2 in neurons—views from the community. <i>Nature Neuroscience</i> , 2015, 18, 1202-1212.	14.8	122
27	Mislocalization of h channel subunits underlies h channelopathy in temporal lobe epilepsy. <i>Neurobiology of Disease</i> , 2008, 32, 26-36.	4.4	106
28	Mapping the electrophysiological and morphological properties of CA1 pyramidal neurons along the longitudinal hippocampal axis. <i>Hippocampus</i> , 2016, 26, 341-361.	1.9	106
29	Sodium Valproate Increases Potassium Conductance in <i>Aplysia</i> Neurons. <i>Epilepsia</i> , 1978, 19, 379-384.	5.1	92
30	Differential expression of HCN subunits alters voltage-dependent gating of h-channels in CA1 pyramidal neurons from dorsal and ventral hippocampus. <i>Journal of Neurophysiology</i> , 2013, 109, 1940-1953.	1.8	92
31	Impaired Dendritic Expression and Plasticity of h-Channels in the <i>fmr1</i> Mouse Model of Fragile X Syndrome. <i>Cell Reports</i> , 2012, 1, 225-233.	6.4	90
32	Subcircuit-specific neuromodulation in the prefrontal cortex. <i>Frontiers in Neural Circuits</i> , 2014, 8, 54.	2.8	90
33	Contribution of Voltage-Gated Ca ²⁺ Channels to Homosynaptic Long-Term Depression in the CA1 Region In Vitro. <i>Journal of Neurophysiology</i> , 1997, 77, 1651-1655.	1.8	82
34	A1 adenosine receptor-mediated GIRK channels contribute to the resting conductance of CA1 neurons in the dorsal hippocampus. <i>Journal of Neurophysiology</i> , 2015, 113, 2511-2523.	1.8	81
35	The synaptic nature of the paroxysmal depolarizing shift in hippocampal neurons. <i>Annals of Neurology</i> , 1984, 16, S65-S71.	5.3	74
36	Associative pairing enhances action potential back-propagation in radial oblique branches of CA1 pyramidal neurons. <i>Journal of Physiology</i> , 2007, 580, 787-800.	2.9	72

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37	Cell-Type Specific Channelopathies in the Prefrontal Cortex of the <i>fmr1</i> - <i>ly</i> Mouse Model of Fragile X Syndrome. <i>ENeuro</i> , 2015, 2, ENEURO.0114-15.2015.	1.9	72
38	Voltage-Dependent Properties of Dendrites That Eliminate Location-Dependent Variability of Synaptic Input. <i>Journal of Neurophysiology</i> , 1999, 81, 535-543.	1.8	68
39	Active Dendrites Reduce Location-Dependent Variability of Synaptic Input Trains. <i>Journal of Neurophysiology</i> , 1997, 78, 2116-2128.	1.8	66
40	Protein Kinase C Activation Decreases Activity-Dependent Attenuation of Dendritic Na^+ Current in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 1998, 79, 491-495.	1.8	65
41	Dendritic GIRK Channels Gate the Integration Window, Plateau Potentials, and Induction of Synaptic Plasticity in Dorsal But Not Ventral CA1 Neurons. <i>Journal of Neuroscience</i> , 2017, 37, 3940-3955.	3.6	65
42	Loss of Functional A-Type Potassium Channels in the Dendrites of CA1 Pyramidal Neurons from a Mouse Model of Fragile X Syndrome. <i>Journal of Neuroscience</i> , 2013, 33, 19442-19450.	3.6	62
43	Valproic Acid: Update on Its Mechanisms of Action. <i>Epilepsia</i> , 1984, 25, S1-4.	5.1	61
44	Temporal Dynamics of L5 Dendrites in Medial Prefrontal Cortex Regulate Integration Versus Coincidence Detection of Afferent Inputs. <i>Journal of Neuroscience</i> , 2015, 35, 4501-4514.	3.6	56
45	Channelopathies and dendritic dysfunction in fragile X syndrome. <i>Brain Research Bulletin</i> , 2014, 103, 11-17.	3.0	50
46	Trace Eyeblink Conditioning in Mice Is Dependent upon the Dorsal Medial Prefrontal Cortex, Cerebellum, and Amygdala: Behavioral Characterization and Functional Circuitry. <i>ENeuro</i> , 2015, 2, ENEURO.0051-14.2015.	1.9	50
47	Dendritic Generation of mGluR-Mediated Slow Afterdepolarization in Layer 5 Neurons of Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 13518-13532.	3.6	44
48	Regenerative and passive membrane properties of isolated horizontal cells from a teleost retina. <i>Nature</i> , 1981, 292, 451-454.	27.8	43
49	Increased transient Na^+ conductance and action potential output in layer 2/3 prefrontal cortex neurons of the <i>fmr1</i> ^Δ <i>ly</i> mouse. <i>Journal of Physiology</i> , 2017, 595, 4431-4448.	2.9	40
50	MATLAB-based automated patch-clamp system for awake behaving mice. <i>Journal of Neurophysiology</i> , 2015, 114, 1331-1345.	1.8	33
51	Epilepsy-Induced Reduction in HCN Channel Expression Contributes to an Increased Excitability in Dorsal, But Not Ventral, Hippocampal CA1 Neurons. <i>ENeuro</i> , 2019, 6, ENEURO.0036-19.2019.	1.9	32
52	Dendritic calcium channels and hippocampal long-term depression. <i>Hippocampus</i> , 1996, 6, 17-23.	1.9	29
53	Fragile X Mental Retardation Protein Bidirectionally Controls Dendritic I_{h} in a Cell Type-Specific Manner between Mouse Hippocampus and Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2020, 40, 5327-5340.	3.6	26
54	A Dynamic Clamp on Every Rig. <i>ENeuro</i> , 2017, 4, ENEURO.0250-17.2017.	1.9	26

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55	Systems-based analysis of dendritic nonlinearities reveals temporal feature extraction in mouse L5 cortical neurons. <i>Journal of Neurophysiology</i> , 2017, 117, 2188-2208.	1.8	20
56	Prefrontal Cortex Dysfunction in Fragile X Mice Depends on the Continued Absence of Fragile X Mental Retardation Protein in the Adult Brain. <i>Journal of Neuroscience</i> , 2017, 37, 7305-7317.	3.6	20
57	Ca ²⁺ Channel Antagonist U-92032 Inhibits Both T-Type Ca ²⁺ Channels and Na ^v Channels in Hippocampal CA1 Pyramidal Neurons. <i>Journal of Neurophysiology</i> , 1997, 77, 1023-1028.	1.8	18
58	Voltage-Gated Intrinsic Conductances Shape the Input-Output Relationship of Cortical Neurons in Behaving Primate V1. <i>Neuron</i> , 2020, 107, 185-196.e4.	8.1	15
59	Age- and location-dependent differences in store depletion-induced h-channel plasticity in hippocampal pyramidal neurons. <i>Journal of Neurophysiology</i> , 2014, 111, 1369-1382.	1.8	14
60	Species-specific differences in the medial prefrontal projections to the pons between rat and rabbit. <i>Journal of Comparative Neurology</i> , 2014, 522, 3052-3074.	1.6	12
61	Potassium Channels and Dendritic Function in Hippocampal Pyramidal Neurons. <i>Epilepsia</i> , 2000, 41, 1072-1073.	5.1	11
62	Antidepressant Effects of (S)-Ketamine through a Reduction of Hyperpolarization-Activated Current I _h . <i>IScience</i> , 2020, 23, 101239.	4.1	9
63	Sodium sensitivity of K _v channels in mouse CA1 neurons. <i>Journal of Neurophysiology</i> , 2021, 125, 1690-1697.	1.8	4
64	<i>The Cortical Neuron</i> . Michael J. Gutnick and Istvan Mody, Eds. Oxford University Press, New York, 1995. xvi, 406 pp., illus. \$75 or £49.50. <i>Science</i> , 1996, 271, 1241-1241.	12.6	0