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List of Publications by Year
in descending order

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47 papers	6,923 citations	101543 36 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	4838 citing authors

#	Article	IF	Citations
1	A Cacna1a Knockin Migraine Mouse Model with Increased Susceptibility to Cortical Spreading Depression. Neuron, 2004, 41, 701-710.	8.1	595
2	Pathophysiology of Migraine. Annual Review of Physiology, 2013, 75, 365-391.	13.1	523
3	Neurobiology of migraine. Nature Reviews Neuroscience, 2003, 4, 386-398.	10.2	498
4	Chaos and commotion in the wake of cortical spreading depression and spreading depolarizations. Nature Reviews Neuroscience, 2014, 15, 379-393.	10.2	318
5	Enhanced Excitatory Transmission at Cortical Synapses as the Basis for Facilitated Spreading Depression in CaV2.1 Knockin Migraine Mice. Neuron, 2009, 61, 762-773.	8.1	292
6	Functional Consequences of Mutations in the Human Î±_{1A}Calcium Channel Subunit Linked to Familial Hemiplegic Migraine. Journal of Neuroscience, 1999, 19, 1610-1619.	3.6	242
7	Familial hemiplegic migraine mutations increase Ca2+ influx through single human CaV2.1 channels and decrease maximal CaV2.1 current density in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 13284-13289.	7.1	240
8	Inherited Neuronal Ion Channelopathies: New Windows on Complex Neurological Diseases. Journal of Neuroscience, 2008, 28, 11768-11777.	3.6	225
9	Migraine: a disorder of brain excitatoryâ€“inhibitory balance?. Trends in Neurosciences, 2012, 35, 507-520.	8.6	219
10	High cortical spreading depression susceptibility and migraineâ€associated symptoms in Ca_v2.1 S218L mice. Annals of Neurology, 2010, 67, 85-98.	5.3	206
11	Direct measurement of proton transfer rates to a group controlling the dihydropyridine-sensitive Ca2+ channel. Nature, 1987, 329, 243-246.	27.8	200
12	Novel mechanism of voltage-dependent gating in L-type calcium channels. Nature, 1990, 346, 651-655.	27.8	196
13	Structural and functional aspects of calcium homeostasis in eukaryotic cells. FEBS Journal, 1990, 193, 599-622.	0.2	196
14	Calcium Channels and Channelopathies of the Central Nervous System. Molecular Neurobiology, 2002, 25, 031-050.	4.0	190
15	Effect of Funiculosin and Antimycin A on the Redoxâ€Driven H⁺â€Pumps in Mitochondria: on the Nature of â€˜Leaksâ€™. FEBS Journal, 1981, 117, 389-394.	0.2	186
16	CaV2.1 channelopathies. Pflugers Archiv European Journal of Physiology, 2010, 460, 375-393.	2.8	184
17	Dystonia and cerebellar atrophy in Cacna1a null mice lacking P/Q calcium channel activity. FASEB Journal, 2001, 15, 1288-1290.	0.5	182
18	Increased Susceptibility to Cortical Spreading Depression in the Mouse Model of Familial Hemiplegic Migraine Type 2. PLoS Genetics, 2011, 7, e1002129.	3.5	179

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19	Familial hemiplegic migraine. Neurotherapeutics, 2007, 4, 274-284.	4.4	171
20	Migraine: New Molecular Mechanisms. Neuroscientist, 2005, 11, 373-386.	3.5	168
21	Î±1ESubunits Form the Pore of Three Cerebellar R-Type Calcium Channels with Different Pharmacological and Permeation Properties. Journal of Neuroscience, 2000, 20, 171-178.	3.6	162
22	Functional Diversity of P-Type and R-Type Calcium Channels in Rat Cerebellar Neurons. Journal of Neuroscience, 1996, 16, 6353-6363.	3.6	160
23	Function and dysfunction of synaptic calcium channels: insights from mouse models. Current Opinion in Neurobiology, 2005, 15, 257-265.	4.2	158
24	Complete Loss of P/Q Calcium Channel Activity Caused by a CACNA1A Missense Mutation Carried by Patients with Episodic Ataxia Type 2. American Journal of Human Genetics, 2001, 68, 759-764.	6.2	147
25	A Systems Neuroscience Approach to Migraine. Neuron, 2018, 97, 1004-1021.	8.1	134
26	Specific Kinetic Alterations of Human CaV2.1 Calcium Channels Produced by Mutation S218L Causing Familial Hemiplegic Migraine and Delayed Cerebral Edema and Coma after Minor Head Trauma. Journal of Biological Chemistry, 2005, 280, 17678-17686.	3.4	123
27	Defective glutamate and K ⁺ clearance by cortical astrocytes in familial hemiplegic migraine type 2. EMBO Molecular Medicine, 2016, 8, 967-986.	6.9	110
28	Presynaptic R-Type Calcium Channels Contribute to Fast Excitatory Synaptic Transmission in the Rat Hippocampus. Journal of Neuroscience, 2001, 21, 8715-8721.	3.6	103
29	Calcium channels and migraine. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 1655-1665.	2.6	78
30	Diagnostic and therapeutic aspects of hemiplegic migraine. Journal of Neurology, Neurosurgery and Psychiatry, 2020, 91, 764-771.	1.9	66
31	Insights into migraine mechanisms and CaV2.1 calcium channel function from mouse models of familial hemiplegic migraine. Journal of Physiology, 2010, 588, 1871-1878.	2.9	54
32	Mechanism underlying unaltered cortical inhibitory synaptic transmission in contrast with enhanced excitatory transmission in CaV2.1 knockin migraine mice. Neurobiology of Disease, 2014, 69, 225-234.	4.4	50
33	Non-canonical glutamate signaling in a genetic model of migraine with aura. Neuron, 2021, 109, 611-628.e8.	8.1	41
34	Abnormal cortical synaptic transmission in CaV2.1 knockin mice with the S218L missense mutation which causes a severe familial hemiplegic migraine syndrome in humans. Frontiers in Cellular Neuroscience, 2015, 9, 8.	3.7	40
35	Modal Gating of Human CaV2.1 (P/Q-type) Calcium Channels. Journal of General Physiology, 2004, 124, 445-461.	1.9	38
36	The differential expression of lowâ€threshold K⁺ currents generates distinct firing patterns in different subtypes of adult mouse trigeminal ganglion neurones. Journal of Physiology, 2008, 586, 5101-5118.	2.9	38

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37	Role of different voltage-gated Ca²⁺channels in cortical spreading depression: Specific requirement of P/Q-type Ca²⁺channels. Channels, 2011, 5, 110-114.	2.8	37
38	Heterogeneity of Astrocytic and Neuronal GLT-1 at Cortical Excitatory Synapses, as Revealed by its Colocalization With Na+/K+-ATPase Î± Isoforms. Cerebral Cortex, 2019, 29, 3331-3350.	2.9	37
39	Genetic mouse models of migraine. Journal of Headache and Pain, 2019, 20, 79.	6.0	31
40	Astrocyte dysfunction increases cortical dendritic excitability and promotes cranial pain in familial migraine. Science Advances, 2020, 6, eaaz1584.	10.3	23
41	Biological science of headache channels. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2010, 97, 73-83.	1.8	22
42	Enhanced Thalamocortical Synaptic Transmission and Dysregulation of the Excitatoryâ€“Inhibitory Balance at the Thalamocortical Feedforward Inhibitory Microcircuit in a Genetic Mouse Model of Migraine. Journal of Neuroscience, 2019, 39, 9841-9851.	3.6	18
43	Ion channels in migraine disorders. Current Opinion in Physiology, 2018, 2, 98-108.	1.8	16
44	Specific activation of GluN1-N2B NMDA receptors underlies facilitation of cortical spreading depression in a genetic mouse model of migraine with reduced astrocytic glutamate clearance. Neurobiology of Disease, 2021, 156, 105419.	4.4	14
45	Differential effect of FHM2 mutation on synaptic plasticity in distinct hippocampal regions. Cephalalgia, 2019, 39, 1333-1338.	3.9	8
46	Cortical spreading depression and familial hemiplegic migraine 2015. Journal of Headache and Pain, 2015, 16, A20.	6.0	3
47	Cav2.1 Channels and Migraine. , 2014, , 3-25.		0