

Chih-Cheng Chen

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

4,366
citations

159358

30
h-index

110170

64
g-index

92
all docs

92
docs citations

92
times ranked

3907
citing authors

#	ARTICLE	IF	CITATIONS
1	A P2X purinoceptor expressed by a subset of sensory neurons. <i>Nature</i> , 1995, 377, 428-431.	13.7	985
2	A sensory neuron-specific, proton-gated ion channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 10240-10245.	3.3	432
3	A role for ASIC3 in the modulation of high-intensity pain stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8992-8997.	3.3	285
4	A new member of the acid-sensing ion channel family. <i>NeuroReport</i> , 2000, 11, 2217-2222.	0.6	211
5	Role of Acid-Sensing Ion Channel 3 in Sub-Acute-Phase Inflammation. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-1.	1.0	152
6	Acid-sensing ion channels: dual function proteins for chemo-sensing and mechano-sensing. <i>Journal of Biomedical Science</i> , 2018, 25, 46.	2.6	100
7	Evidence for the involvement of ASIC3 in sensory mechanotransduction in proprioceptors. <i>Nature Communications</i> , 2016, 7, 11460.	5.8	98
8	Neurosensory mechanotransduction through acid-sensing ion channels. <i>Journal of Cellular and Molecular Medicine</i> , 2013, 17, 337-349.	1.6	90
9	Nociceptors of dorsal root ganglion express proton-sensing G-protein-coupled receptors. <i>Molecular and Cellular Neurosciences</i> , 2007, 36, 195-210.	1.0	86
10	Ca _v 3.2 T-Type Ca ²⁺ Channel-Dependent Activation of ERK in Paraventricular Thalamus Modulates Acid-Induced Chronic Muscle Pain. <i>Journal of Neuroscience</i> , 2010, 30, 10360-10368.	1.7	86
11	A persistent level of <i>Cisd2</i> extends healthy lifespan and delays aging in mice. <i>Human Molecular Genetics</i> , 2012, 21, 3956-3968.	1.4	80
12	An antinociceptive role for substance P in acid-induced chronic muscle pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E76-83.	3.3	77
13	Role of Extracellular Signal-Regulated Kinase in Synaptic Transmission and Plasticity of a Nociceptive Input on Capsular Central Amygdaloid Neurons in Normal and Acid-Induced Muscle Pain Mice. <i>Journal of Neuroscience</i> , 2011, 31, 2258-2270.	1.7	73
14	Understanding Sensory Nerve Mechanotransduction through Localized Elastomeric Matrix Control. <i>PLoS ONE</i> , 2009, 4, e4293.	1.1	61
15	A Novel SCN9A Mutation Responsible for Primary Erythromelalgia and Is Resistant to the Treatment of Sodium Channel Blockers. <i>PLoS ONE</i> , 2013, 8, e55212.	1.1	60
16	Targeting ASIC3 for pain, anxiety, and insulin resistance. , 2012, 134, 127-138.		59
17	Genetic exploration of the role of acid-sensing ion channels. <i>Neuropharmacology</i> , 2015, 94, 99-118.	2.0	59
18	Mice lacking <i>Asic3</i> show reduced anxiety-like behavior on the elevated plus maze and reduced aggression. <i>Genes, Brain and Behavior</i> , 2010, 9, 603-614.	1.1	56

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19	Roles of ASIC3, TRPV1, and Na ^V 1.8 in the Transition from Acute to Chronic Pain in a Mouse Model of Fibromyalgia. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-40.	1.0	50
20	ASIC-dependent LTP at multiple glutamatergic synapses in amygdala network is required for fear memory. <i>Scientific Reports</i> , 2015, 5, 10143.	1.6	46
21	Identification of a cono-RFamide from the venom of <i>Conus textile</i> that targets ASIC3 and enhances muscle pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3507-E3515.	3.3	45
22	Probing localized neural mechanotransduction through surface-modified elastomeric matrices and electrophysiology. <i>Nature Protocols</i> , 2010, 5, 714-724.	5.5	44
23	Roles of Proton-Sensing Receptors in the Transition from Acute to Chronic Pain. <i>Journal of Dental Research</i> , 2016, 95, 135-142.	2.5	44
24	Receptor guanylyl cyclase ^G is a novel thermosensory protein activated by cool temperatures. <i>EMBO Journal</i> , 2015, 34, 294-306.	3.5	42
25	Identification and characterization of a subset of mouse sensory neurons that express acid-sensing ion channel 3. <i>Neuroscience</i> , 2008, 151, 544-557.	1.1	41
26	Roles of ASICs in Nociception and Proprioception. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1099, 37-47.	0.8	40
27	VarioWatch: providing large-scale and comprehensive annotations on human genomic variants in the next generation sequencing era. <i>Nucleic Acids Research</i> , 2012, 40, W76-W81.	6.5	39
28	Genetic mapping of ASIC4 and contrasting phenotype to ASIC1a in modulating innate fear and anxiety. <i>European Journal of Neuroscience</i> , 2015, 41, 1553-1568.	1.2	38
29	Activation of acid-sensing ion channel 3 by lysophosphatidylcholine 16:0 mediates psychological stress-induced fibromyalgia-like pain. <i>Annals of the Rheumatic Diseases</i> , 2020, 79, 1644-1656.	0.5	36
30	Acid-sensing ion channels in neurones of the rat suprachiasmatic nucleus. <i>Journal of Physiology</i> , 2009, 587, 1727-1737.	1.3	35
31	Ion Channels Involved in Substance P-Mediated Nociception and Antinociception. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1596.	1.8	34
32	Asic3 ^{-/-} Female Mice with Hearing Deficit Affects Social Development of Pups. <i>PLoS ONE</i> , 2009, 4, e6508.	1.1	33
33	Increase of insulin sensitivity and reversal of age-dependent glucose intolerance with inhibition of ASIC3. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 729-734.	1.0	32
34	Involvement of Acid-Sensing Ion Channel 1b in the Development of Acid-Induced Chronic Muscle Pain. <i>Frontiers in Neuroscience</i> , 2019, 13, 1247.	1.4	30
35	Involvement of advillin in somatosensory neuron subtype-specific axon regeneration and neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8557-E8566.	3.3	29
36	Acid Mediates a Prolonged Antinociception via Substance P Signaling in Acid-Induced Chronic Widespread Pain. <i>Molecular Pain</i> , 2014, 10, 1744-8069-10-30.	1.0	28

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37	Soft-tissue Wound Healing by Anti-advanced Glycation End-products Agents. Journal of Dental Research, 2014, 93, 388-393.	2.5	27
38	Effects of decompression on neuropathic pain behaviors and skin reinnervation in chronic constriction injury. Experimental Neurology, 2007, 204, 574-582.	2.0	26
39	Peripheral sensory neuron injury contributes to neuropathic pain in experimental autoimmune encephalomyelitis. Scientific Reports, 2017, 7, 42304.	1.6	25
40	Sensing acidosis: nociception or sngception?. Journal of Biomedical Science, 2018, 25, 85.	2.6	25
41	Light-Emitting Diode Irradiation Promotes Donor Site Wound Healing of the Free Gingival Graft. Journal of Periodontology, 2015, 86, 674-681.	1.7	24
42	Inhibitory interneurons regulate phasic activity of noradrenergic neurons in the mouse locus coeruleus and functional implications. Journal of Physiology, 2020, 598, 4003-4029.	1.3	23
43	Localized neurite outgrowth sensing via substrates with alternative rigidities. Soft Matter, 2011, 7, 9871.	1.2	22
44	Role of the Acid-Sensing Ion Channel 3 in Blood Volume Control. Circulation Journal, 2011, 75, 874-883.	0.7	22
45	A role for calcineurin in the desensitization of the P2X3 receptor. NeuroReport, 1997, 8, 1099-1102.	0.6	21
46	Membrane roughness as a sensitive parameter reflecting the status of neuronal cells in response to chemical and nanoparticle treatments. Journal of Nanobiotechnology, 2016, 14, 9.	4.2	21
47	GABA _B receptor-mediated tonic inhibition of noradrenergic A7 neurons in the rat. Journal of Neurophysiology, 2011, 105, 2715-2728.	0.9	19
48	Evaluating soreness symptoms of fibromyalgia: Establishment and validation of the Revised Fibromyalgia Impact Questionnaire with Integration of Soreness Assessment. Journal of the Formosan Medical Association, 2020, 119, 1211-1218.	0.8	19
49	Serotonin Receptor 2B Mediates Mechanical Hyperalgesia by Regulating Transient Receptor Potential Vanilloid 1. Journal of Molecular Neuroscience, 2016, 59, 113-125.	1.1	18
50	ASIC3-dependent metabolomics profiling of serum and urine in a mouse model of fibromyalgia. Scientific Reports, 2019, 9, 12123.	1.6	18
51	Involvement of TRPV1 and TDAG8 in Pruriception Associated with Noxious Acidosis. Journal of Investigative Dermatology, 2017, 137, 170-178.	0.3	17
52	Smartphone Application with Virtual Reality Goggles for the Reliable and Valid Measurement of Active Craniocervical Range of Motion. Diagnostics, 2019, 9, 71.	1.3	17
53	A role for substance P and acid-sensing ion channel 1a in prolotherapy with dextrose-mediated analgesia in a mouse model of chronic muscle pain. Pain, 2022, 163, e622-e633.	2.0	17
54	ASIC1a is required for neuronal activation via low-intensity ultrasound stimulation in mouse brain. ELife, 2021, 10, .	2.8	17

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55	Metabolomic and proteomic characterization of sng and pain phenotypes in fibromyalgia. <i>European Journal of Pain</i> , 2022, 26, 445-462.	1.4	17
56	Expression in <i>Pichia pastoris</i> and characterization of APETx2, a specific inhibitor of acid sensing ion channel 3. <i>Toxicon</i> , 2010, 56, 1388-1397.	0.8	16
57	Identification and Cytoprotective Function of a Novel Nestin Isoform, Nes-S, in Dorsal Root Ganglia Neurons. <i>Journal of Biological Chemistry</i> , 2013, 288, 8391-8404.	1.6	16
58	Acid-Sensing Ion Channel 3, But Not Capsaicin Receptor TRPV1, Plays a Protective Role in Isoproterenol-Induced Myocardial Ischemia in Mice. <i>Circulation Journal</i> , 2011, 75, 174-178.	0.7	15
59	The Effect of ASIC3 Knockout on Corticostriatal Circuit and Mouse Self-grooming Behavior. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 86.	1.8	15
60	Force From Filaments: The Role of the Cytoskeleton and Extracellular Matrix in the Gating of Mechanosensitive Channels. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 886048.	1.8	15
61	Molecular relationships in infectious pancreatic necrosis virus. <i>Virus Research</i> , 1995, 37, 239-252.	1.1	13
62	Genetic variation in the ASIC3 gene influences blood pressure levels in Taiwanese. <i>Journal of Hypertension</i> , 2008, 26, 2154-2160.	0.3	13
63	Involvement of Substance P in the Analgesic Effect of Low-Level Laser Therapy in a Mouse Model of Chronic Widespread Muscle Pain. <i>Pain Medicine</i> , 2019, 20, 1963-1970.	0.9	13
64	Influences of surgical decompression on the dorsal horn after chronic constriction injury: Changes in peptidergic and μ -opioid receptor (+) nerve terminals. <i>Neuroscience</i> , 2008, 156, 758-768.	1.1	12
65	CPEB3 Deficiency Elevates TRPV1 Expression in Dorsal Root Ganglia Neurons to Potentiate Thermosensation. <i>PLoS ONE</i> , 2016, 11, e0148491.	1.1	11
66	Low-Threshold Mechanosensitive VGLUT3-Lineage Sensory Neurons Mediate Spinal Inhibition of Itch by Touch. <i>Journal of Neuroscience</i> , 2020, 40, 7688-7701.	1.7	11
67	Diagnostic accuracy of standardised qualitative sensory test in the detection of lumbar lateral stenosis involving the L5 nerve root. <i>Scientific Reports</i> , 2017, 7, 10598.	1.6	10
68	Association between an ASIC3 gene variant and insulin resistance in Taiwanese. <i>Clinica Chimica Acta</i> , 2010, 411, 1132-1136.	0.5	9
69	Distinct Expression of Mas1-Related G-Protein-Coupled Receptor B4 in Dorsal Root and Trigeminal Ganglia—Implications for Altered Behaviors in Acid-Sensing Ion Channel 3-Deficient Mice. <i>Journal of Molecular Neuroscience</i> , 2013, 51, 820-834.	1.1	8
70	Abnormal Cardiac Autonomic Regulation in Mice Lacking ASIC3. <i>BioMed Research International</i> , 2014, 2014, 1-8.	0.9	8
71	Osseous wound repair under inhibition of the axis of advanced glycation end-products and the advanced glycation end-products receptor. <i>Journal of the Formosan Medical Association</i> , 2015, 114, 973-980.	0.8	8
72	Research Strategies for Pain in Lumbar Radiculopathy Focusing on Acid-Sensing Ion Channels and Their Toxins. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 617-630.	1.0	8

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73	ERK, synaptic plasticity and acid-induced muscle pain. <i>Communicative and Integrative Biology</i> , 2011, 4, 394-6.	0.6	8
74	Electrophysiological characteristics of IB4-negative TRPV1-expressing muscle afferent DRG neurons. <i>Biophysics (Nagoya-shi, Japan)</i> , 2015, 11, 9-16.	0.4	4
75	Auditory independent low-intensity ultrasound stimulation of mouse brain is associated with neuronal ERK phosphorylation and an increase of Tbr2 marked neuroprogenitors. <i>Biochemical and Biophysical Research Communications</i> , 2022, 613, 113-119.	1.0	4
76	ATF3-Expressing Large-Diameter Sensory Afferents at Acute Stage as Bio-Signatures of Persistent Pain Associated with Lumbar Radiculopathy. <i>Cells</i> , 2021, 10, 992.	1.8	3
77	Longitudinal intravital imaging nerve degeneration and sprouting in the toes of spared nerve injured mice. <i>Journal of Comparative Neurology</i> , 2021, 529, 3247-3264.	0.9	3
78	EXTERNAL OUTPUT CONNECTOR AND CABLE FOR WIRE ELECTRODE RECORDING IN FREELY MOVING MOUSE. <i>Biomedical Engineering - Applications, Basis and Communications</i> , 2007, 19, 1-5.	0.3	2
79	S29-3 LOSS OF ASIC3 RESULTS IN ABNORMAL CARDIAC AUTONOMIC REGULATION AND INCREASED CARDIAC ISCHEMIA SUSCEPTIBILITY IN MICE. <i>International Journal of Cardiology</i> , 2007, 122, S47.	0.8	2
80	Authors' response to the Letter to the Editor on "Clinical consideration in evaluating soreness symptoms of fibromyalgia". <i>Journal of the Formosan Medical Association</i> , 2020, 119, 889-890.	0.8	2
81	An Index Combining Lost and Remaining Nerve Fibers Correlates with Pain Hypersensitivity in Mice. <i>Cells</i> , 2020, 9, 2414.	1.8	2
82	Ligand-gated ion channels of sensory neurons: from purines to peppers. <i>Biochemical Society Transactions</i> , 1997, 25, 842-844.	1.6	1
83	Observations of Sensory Neuron Behaviors on Substrates with Various Stiffnesses through Living Cell Imaging. <i>Biophysical Journal</i> , 2009, 96, 479a.	0.2	0
84	Investigating Axonal Outgrowth and Orientation of Neuroblasts through an Alternating Stiffness Substrate. <i>Biophysical Journal</i> , 2009, 96, 281a.	0.2	0
85	Probing the Response of Structural Proteins To Mechanical Stimulation in Neuroblasts. <i>Biophysical Journal</i> , 2010, 98, 19a.	0.2	0
86	Cell Structure and Morphology Alterations Through Controlling Localized Substrate Stiffness on in Fibroblasts and Neuroblasts. <i>Biophysical Journal</i> , 2011, 100, 447a.	0.2	0
87	Receptor guanylyl cyclase-G is a novel thermosensor in Grueneberg ganglion neurons involved in coolness-induced ultrasonic distress calls in mice. <i>BMC Pharmacology & Toxicology</i> , 2013, 14, .	1.0	0
88	The Transition from Acute to Chronic Pain. , 0, , 679-701.		0
89	Effects of Mechanical Strain on Structural and Actin-Binding Proteins in Neuroblasts. , 2009, , .		0
90	Current challenges in diagnosis of lumbar radiculopathy. <i>World Journal of Anesthesiology</i> , 2018, 7, 20-23.	0.5	0

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91	ASIC3 and Muscle Pain. , 2008, , 225-232.		0