

Jun-Ming Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

4,688

citations

32

h-index

68

g-index

87

ext. papers

5,446

ext. citations

4.9

avg, IF

5.61

L-index

#	Paper	IF	Citations
86	Synchronized cluster firing, a distinct form of sensory neuron activation, drives spontaneous pain. <i>Neuron</i> , 2021 ,	13.9	2
85	Sympathectomy decreases pain behaviors and nerve regeneration by downregulating monocyte chemokine CCL2 in dorsal root ganglia in the rat tibial nerve crush model. <i>Pain</i> , 2021 , 163,	8	1
84	Key role of CCR2-expressing macrophages in a mouse model of low back pain and radiculopathy. <i>Brain, Behavior, and Immunity</i> , 2021 , 91, 556-567	16.6	2
83	Local Sympathectomy Promotes Anti-inflammatory Responses and Relief of Paclitaxel-induced Mechanical and Cold Allodynia in Mice. <i>Anesthesiology</i> , 2020 , 132, 1540-1553	4.3	7
82	Differential Regulation of the Glucocorticoid Receptor in a Rat Model of Inflammatory Pain. <i>Anesthesia and Analgesia</i> , 2020 , 131, 298-306	3.9	1
81	Localized sympathectomy reduces peripheral nerve regeneration and pain behaviors in 2 rat neuropathic pain models. <i>Pain</i> , 2020 , 161, 1925-1936	8	4
80	The Sympathetic Nervous System and Pain 2020 , 155-178		1
79	Role of Na _v 1.6 and Na _v β Sodium Channel Subunits in a Rat Model of Low Back Pain Induced by Compression of the Dorsal Root Ganglia. <i>Neuroscience</i> , 2019 , 402, 51-65	3.9	5
78	Neonatal vincristine administration modulates intrinsic neuronal excitability in the rat dorsal root ganglion and spinal dorsal horn during adolescence. <i>Pain</i> , 2019 , 160, 645-657	8	7
77	Minocycline Relieves Depressive-Like Behaviors in Rats With Bone Cancer Pain by Inhibiting Microglia Activation in Hippocampus. <i>Anesthesia and Analgesia</i> , 2019 , 129, 1733-1741	3.9	21
76	Cardioprotection via the skin: nociceptor-induced conditioning against cardiac MI in the NIC of time. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019 , 316, H543-H553	5.2	10
75	Increased Resurgent Sodium Currents in Nav1.8 Contribute to Nociceptive Sensory Neuron Hyperexcitability Associated with Peripheral Neuropathies. <i>Journal of Neuroscience</i> , 2019 , 39, 1539-1550	6.6	21
74	Differential Inhibition of Nav1.7 and Neuropathic Pain by Hybridoma-Produced and Recombinant Monoclonal Antibodies that Target Nav1.7 : Differential activities of Nav1.7-targeting monoclonal antibodies. <i>Neuroscience Bulletin</i> , 2018 , 34, 22-41	4.3	17
73	High-fat diet exacerbates postoperative pain and inflammation in a sex-dependent manner. <i>Pain</i> , 2018 , 159, 1731-1741	8	21
72	Inflammatory Changes in Paravertebral Sympathetic Ganglia in Two Rat Pain Models. <i>Neuroscience Bulletin</i> , 2018 , 34, 85-97	4.3	13
71	Fractalkine/CX3CR1 Contributes to Endometriosis-Induced Neuropathic Pain and Mechanical Hypersensitivity in Rats. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 495	6.1	12
70	Mineralocorticoid Antagonist Improves Glucocorticoid Receptor Signaling and Dexamethasone Analgesia in an Animal Model of Low Back Pain. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 453	6.1	4

69	Enhanced Pain Sensitivity with Systemic Ultrastructural Changes of the Nervous Systems after Cobra Venom Injection is Reversed by Electroacupuncture Treatment. <i>Pain Physician</i> , 2018 , 21, E509-E521 ¹⁸		3
68	FHF2 isoforms differentially regulate Nav1.6-mediated resurgent sodium currents in dorsal root ganglion neurons. <i>Pflugers Archiv European Journal of Physiology</i> , 2017 , 469, 195-212	4.6	15
67	High-fat diet increases pain behaviors in rats with or without obesity. <i>Scientific Reports</i> , 2017 , 7, 10350	4.9	27
66	Normalizing GDNF expression in the spinal cord alleviates cutaneous hyperalgesia but not ongoing pain in a rat model of bone cancer pain. <i>International Journal of Cancer</i> , 2017 , 140, 411-422	7.5	20
65	Active Nerve Regeneration with Failed Target Reinnervation Drives Persistent Neuropathic Pain. <i>ENeuro</i> , 2017 , 4,	3.9	31
64	Localized Sympathectomy Reduces Mechanical Hypersensitivity by Restoring Normal Immune Homeostasis in Rat Models of Inflammatory Pain. <i>Journal of Neuroscience</i> , 2016 , 36, 8712-25	6.6	25
63	Mineralocorticoid Receptor, A Promising Target for Improving Management of Low Back Pain by Epidural Steroid Injections. <i>Journal of Anesthesia and Perioperative Medicine</i> , 2016 , 3, 177-184		2
62	Upregulation of the sodium channel NaV β subunit and its contributions to mechanical hypersensitivity and neuronal hyperexcitability in a rat model of radicular pain induced by local dorsal root ganglion inflammation. <i>Pain</i> , 2016 , 157, 879-891	8	21
61	Nav β regulates fast resurgent sodium currents and excitability in sensory neurons. <i>Molecular Pain</i> , 2015 , 11, 60	3.4	29
60	Progress in Sympathetically Mediated Pathological Pain. <i>Journal of Anesthesia and Perioperative Medicine</i> , 2015 , 2, 216-225		16
59	Local knockdown of the NaV1.6 sodium channel reduces pain behaviors, sensory neuron excitability, and sympathetic sprouting in rat models of neuropathic pain. <i>Neuroscience</i> , 2015 , 291, 317-330 ⁹		64
58	Blocking the mineralocorticoid receptor improves effectiveness of steroid treatment for low back pain in rats. <i>Anesthesiology</i> , 2014 , 121, 632-43	4.3	16
57	Preclinical studies of low back pain. <i>Molecular Pain</i> , 2013 , 9, 17	3.4	24
56	Knockdown of sodium channel NaV1.6 blocks mechanical pain and abnormal bursting activity of afferent neurons in inflamed sensory ganglia. <i>Pain</i> , 2013 , 154, 1170-80	8	57
55	Bursting activity in myelinated sensory neurons plays a key role in pain behavior induced by localized inflammation of the rat sensory ganglion. <i>Neuroscience</i> , 2012 , 206, 212-23	3.9	36
54	Knockdown of the sphingosine-1-phosphate receptor S1PR1 reduces pain behaviors induced by local inflammation of the rat sensory ganglion. <i>Neuroscience Letters</i> , 2012 , 515, 61-5	3.3	31
53	Increased function of the TRPV1 channel in small sensory neurons after local inflammation or in vitro exposure to the pro-inflammatory cytokine GRO/KC. <i>Neuroscience Bulletin</i> , 2012 , 28, 155-64	4.3	30
52	Microarray analysis of rat sensory ganglia after local inflammation implicates novel cytokines in pain. <i>PLoS ONE</i> , 2012 , 7, e40779	3.7	44

51	Mineralocorticoid receptor blocker eplerenone reduces pain behaviors in vivo and decreases excitability in small-diameter sensory neurons from local inflamed dorsal root ganglia in vitro. <i>Anesthesiology</i> , 2012 , 117, 1102-12	4.3	27
50	Melittin activates TRPV1 receptors in primary nociceptive sensory neurons via the phospholipase A2 cascade pathways. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 408, 32-7	3.4	26
49	Mechanical hypersensitivity, sympathetic sprouting, and glial activation are attenuated by local injection of corticosteroid near the lumbar ganglion in a rat model of neuropathic pain. <i>Regional Anesthesia and Pain Medicine</i> , 2011 , 36, 56-62	3.4	44
48	Highly localized interactions between sensory neurons and sprouting sympathetic fibers observed in a transgenic tyrosine hydroxylase reporter mouse. <i>Molecular Pain</i> , 2011 , 7, 53	3.4	26
47	Localized Inflammatory Irritation of the Lumbar Ganglia: An Animal Model of Chemogenic Low Back Pain and Radiculopathy. <i>NeuroMethods</i> , 2011 , 89-102	0.4	1
46	Increased excitability and spontaneous activity of rat sensory neurons following in vitro stimulation of sympathetic fiber sprouts in the isolated dorsal root ganglion. <i>Pain</i> , 2010 , 151, 447-459	8	46
45	The anatomy of postoperative pain 2010 , 1-9		
44	PATHOPHYSIOLOGY OF PAIN 2009 , 4-8		1
43	Peripheral nociception associated with surgical incision elicits remote nonischemic cardioprotection via neurogenic activation of protein kinase C signaling. <i>Circulation</i> , 2009 , 120, S1-9	16.7	125
42	Early blockade of injured primary sensory afferents reduces glial cell activation in two rat neuropathic pain models. <i>Neuroscience</i> , 2009 , 160, 847-57	3.9	110
41	NF-kappaB mediated enhancement of potassium currents by the chemokine CXCL1/growth related oncogene in small diameter rat sensory neurons. <i>Molecular Pain</i> , 2009 , 5, 26	3.4	33
40	Peripheral nerve injury sensitizes neonatal dorsal horn neurons to tumor necrosis factor-alpha. <i>Molecular Pain</i> , 2009 , 5, 10	3.4	17
39	The chemokine CXCL1/growth related oncogene increases sodium currents and neuronal excitability in small diameter sensory neurons. <i>Molecular Pain</i> , 2008 , 4, 38	3.4	100
38	Tumor Necrosis Factor- α Suppresses Activation of Sustained Potassium Currents in Rat Small Diameter Sensory Neurons. <i>Open Pain Journal</i> , 2008 , 1, 1	0.3	9
37	Radicular low back pain: what have we learned from recent animal research?. <i>Anesthesiology</i> , 2008 , 108, 5-6	4.3	2
36	Recent evidence for activity-dependent initiation of sympathetic sprouting and neuropathic pain. <i>Acta Physiologica Sinica</i> , 2008 , 60, 617-27	1.3	12
35	Systemic antiinflammatory corticosteroid reduces mechanical pain behavior, sympathetic sprouting, and elevation of proinflammatory cytokines in a rat model of neuropathic pain. <i>Anesthesiology</i> , 2007 , 107, 469-77	4.3	70
34	Cytokines, inflammation, and pain. <i>International Anesthesiology Clinics</i> , 2007 , 45, 27-37	0.6	1268

33	Sympathetic sprouting near sensory neurons after nerve injury occurs preferentially on spontaneously active cells and is reduced by early nerve block. <i>Journal of Neurophysiology</i> , 2007 , 97, 492-502	3.2	44
32	Response to Dr. Paraskevas's Comments. <i>Southern Medical Journal</i> , 2007 , 100, 412	0.6	
31	Local inflammation in rat dorsal root ganglion alters excitability and ion currents in small-diameter sensory neurons. <i>Anesthesiology</i> , 2007 , 107, 322-32	4.3	47
30	Robust increase of cutaneous sensitivity, cytokine production and sympathetic sprouting in rats with localized inflammatory irritation of the spinal ganglia. <i>Neuroscience</i> , 2006 , 142, 809-22	3.9	124
29	Efficacy of stellate ganglion blockade for the management of type 1 complex regional pain syndrome. <i>Southern Medical Journal</i> , 2006 , 99, 1084-8	0.6	58
28	Neuropathic pain: early spontaneous afferent activity is the trigger. <i>Pain</i> , 2005 , 116, 243-256	8	148
27	Sympathetic Fiber Sprouting in Chronically Compressed Dorsal Root Ganglia Without Peripheral Axotomy. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005 , 1, 19-23		19
26	Cancer-Related Neuropathic Pain. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005 , 1, 55-67		
25	Assessment of Laser Doppler Imaging for the Diagnosis of Complex Regional Pain Syndrome I. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005 , 1, 13-20		1
24	Sympathetic Fiber Sprouting in Chronically Compressed Dorsal Root Ganglia Without Peripheral Axotomy. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005 , 1, 19-23		13
23	Comparison of responses of primate spinothalamic tract neurons to pruritic and algogenic stimuli. <i>Journal of Neurophysiology</i> , 2004 , 91, 213-22	3.2	76
22	Are diagnostic lumbar facet injections influenced by pain of muscular origin?. <i>Pain Practice</i> , 2004 , 4, 286-91		27
21	Human acupuncture points mapped in rats are associated with excitable muscle/skin-nerve complexes with enriched nerve endings. <i>Brain Research</i> , 2004 , 1012, 154-9	3.7	89
20	Decreasing sympathetic sprouting in pathologic sensory ganglia: a new mechanism for treating neuropathic pain using lidocaine. <i>Pain</i> , 2004 , 109, 143-9	8	53
19	Mechanical hyperalgesia in rat models of systemic and local hyperglycemia. <i>Brain Research</i> , 2003 , 960, 174-83	3.7	51
18	Somata of nerve-injured sensory neurons exhibit enhanced responses to inflammatory mediators. <i>Pain</i> , 2003 , 104, 701-709	8	49
17	Increased sensitivity of sensory neurons to tumor necrosis factor alpha in rats with chronic compression of the lumbar ganglia. <i>Journal of Neurophysiology</i> , 2002 , 88, 1393-9	3.2	71
16	Acute topical application of tumor necrosis factor alpha evokes protein kinase A-dependent responses in rat sensory neurons. <i>Journal of Neurophysiology</i> , 2002 , 88, 1387-92	3.2	96

15	Thermosensitivity of large primary sensory neurons. <i>Brain Research</i> , 2002 , 926, 18-26	3-7	7
14	A comparison of chronic pain behavior following local application of tumor necrosis factor alpha to the normal and mechanically compressed lumbar ganglia in the rat. <i>Pain</i> , 2002 , 95, 239-246	8	99
13	Protein kinase A modulates spontaneous activity in chronically compressed dorsal root ganglion neurons in the rat. <i>Pain</i> , 2001 , 94, 39-46	8	25
12	Effects of bupivacaine and ropivacaine on high-voltage-activated calcium currents of the dorsal horn neurons in newborn rats. <i>Anesthesiology</i> , 2001 , 95, 139-43	4-3	15
11	Topical Application of Acidic Bupivacaine to the Lumbar Ganglion Induces Mechanical Hyperalgesia in the Rat. <i>Anesthesia and Analgesia</i> , 2001 , 93, 466-471	3-9	13
10	Topical application of acidic bupivacaine to the lumbar ganglion induces mechanical hyperalgesia in the rat. <i>Anesthesia and Analgesia</i> , 2001 , 93, 466-71, 4th contents page	3-9	19
9	Perfusion of the mechanically compressed lumbar ganglion with lidocaine reduces mechanical hyperalgesia and allodynia in the rat. <i>Journal of Neurophysiology</i> , 2000 , 84, 798-805	3-2	40
8	Mechanical and thermal hyperalgesia and ectopic neuronal discharge after chronic compression of dorsal root ganglia. <i>Journal of Neurophysiology</i> , 1999 , 82, 3347-58	3-2	238
7	Enhanced excitability of sensory neurons in rats with cutaneous hyperalgesia produced by chronic compression of the dorsal root ganglion. <i>Journal of Neurophysiology</i> , 1999 , 82, 3359-66	3-2	168
6	Patch clamp recording from the intact dorsal root ganglion. <i>Journal of Neuroscience Methods</i> , 1998 , 79, 97-103	3	25
5	An in vitro study of ectopic discharge generation and adrenergic sensitivity in the intact, nerve-injured rat dorsal root ganglion. <i>Pain</i> , 1997 , 72, 51-7	8	83
4	Axotomy increases the excitability of dorsal root ganglion cells with unmyelinated axons. <i>Journal of Neurophysiology</i> , 1997 , 78, 2790-4	3-2	119
3	Alterations in the functional properties of dorsal root ganglion cells with unmyelinated axons after a chronic nerve constriction in the rat. <i>Progress in Brain Research</i> , 1996 , 110, 105-11	2-9	7
2	Abnormal spontaneous activity and responses to norepinephrine in dissociated dorsal root ganglion cells after chronic nerve constriction. <i>Pain</i> , 1996 , 67, 391-7	8	95
1	Functional changes in dorsal root ganglion cells after chronic nerve constriction in the rat. <i>Journal of Neurophysiology</i> , 1995 , 73, 1811-20	3-2	211