

Jun-Ming Zhang

List of Publications by Year in descending order

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87
papers

6,207
citations

101496

36
h-index

69214

77
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all docs

87
docs citations

87
times ranked

7123
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytokines, Inflammation, and Pain. <i>International Anesthesiology Clinics</i> , 2007, 45, 27-37.	0.3	1,988
2	Mechanical and Thermal Hyperalgesia and Ectopic Neuronal Discharge After Chronic Compression of Dorsal Root Ganglia. <i>Journal of Neurophysiology</i> , 1999, 82, 3347-3358.	0.9	260
3	Functional changes in dorsal root ganglion cells after chronic nerve constriction in the rat. <i>Journal of Neurophysiology</i> , 1995, 73, 1811-1820.	0.9	226
4	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, 3359-3366.	0.9	184
5	Neuropathic pain: Early spontaneous afferent activity is the trigger. <i>Pain</i> , 2005, 116, 243-256.	2.0	173
6	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, 809-822.	1.1	147
7	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.	1.6	139
8	Axotomy Increases the Excitability of Dorsal Root Ganglion Cells With Unmyelinated Axons. <i>Journal of Neurophysiology</i> , 1997, 78, 2790-2794.	0.9	132
9	Early blockade of injured primary sensory afferents reduces glial cell activation in two rat neuropathic pain models. <i>Neuroscience</i> , 2009, 160, 847-857.	1.1	130
10	The Chemokine CXCL1/Growth Related Oncogene Increases Sodium Currents and Neuronal Excitability in Small Diameter Sensory Neurons. <i>Molecular Pain</i> , 2008, 4, 1744-8069-4-38.	1.0	120
11	Human acupuncture points mapped in rats are associated with excitable muscle/skin nerve complexes with enriched nerve endings. <i>Brain Research</i> , 2004, 1012, 154-159.	1.1	115
12	A comparison of chronic pain behavior following local application of tumor necrosis factor $\hat{\pm}$ to the normal and mechanically compressed lumbar ganglia in the rat. <i>Pain</i> , 2002, 95, 239-246.	2.0	114
13	Acute Topical Application of Tumor Necrosis Factor $\hat{\pm}$ Evokes Protein Kinase A-Dependent Responses in Rat Sensory Neurons. <i>Journal of Neurophysiology</i> , 2002, 88, 1387-1392.	0.9	112
14	Abnormal spontaneous activity and responses to norepinephrine in dissociated dorsal root ganglion cells after chronic nerve constriction. <i>Pain</i> , 1996, 67, 391-397.	2.0	111
15	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, 51-57.	2.0	94
16	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, 469-477.	1.3	91
17	Increased Sensitivity of Sensory Neurons to Tumor Necrosis Factor $\hat{\pm}$ in Rats With Chronic Compression of the Lumbar Ganglia. <i>Journal of Neurophysiology</i> , 2002, 88, 1393-1399.	0.9	87
18	Comparison of Responses of Primate Spinothalamic Tract Neurons to Pruritic and Algogenic Stimuli. <i>Journal of Neurophysiology</i> , 2004, 91, 213-222.	0.9	85

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19	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.	1.1	81
20	Efficacy of Stellate Ganglion Blockade for the Management of Type 1 Complex Regional Pain Syndrome. <i>Southern Medical Journal</i> , 2006, 99, 1084-1088.	0.3	73
21	Decreasing sympathetic sprouting in pathologic sensory ganglia: a new mechanism for treating neuropathic pain using lidocaine. <i>Pain</i> , 2004, 109, 143-149.	2.0	67
22	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, 1170-1180.	2.0	67
23	Mechanical hyperalgesia in rat models of systemic and local hyperglycemia. <i>Brain Research</i> , 2003, 960, 174-183.	1.1	58
24	Somata of nerve-injured sensory neurons exhibit enhanced responses to inflammatory mediators. <i>Pain</i> , 2003, 104, 701-709.	2.0	56
25	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.	0.9	56
26	Microarray Analysis of Rat Sensory Ganglia after Local Inflammation Implicates Novel Cytokines in Pain. <i>PLoS ONE</i> , 2012, 7, e40779.	1.1	54
27	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.	2.0	53
28	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.	1.1	53
29	Local Inflammation in Rat Dorsal Root Ganglion Alters Excitability and Ion Currents in Small-diameter Sensory Neurons. <i>Anesthesiology</i> , 2007, 107, 322-332.	1.3	53
30	Active Nerve Regeneration with Failed Target Reinnervation Drives Persistent Neuropathic Pain. <i>ENeuro</i> , 2017, 4, ENEURO.0008-17.2017.	0.9	49
31	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.	0.9	46
32	High-fat diet increases pain behaviors in rats with or without obesity. <i>Scientific Reports</i> , 2017, 7, 10350.	1.6	46
33	NF- κ B Mediated Enhancement of Potassium Currents by the Chemokine CXCL1/Growth Related Oncogene in Small Diameter Rat Sensory Neurons. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-26.	1.0	43
34	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.	1.7	42
35	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, 212-223.	1.1	41
36	Nav1.4 Regulates Fast Resurgent Sodium Currents and Excitability in Sensory Neurons. <i>Molecular Pain</i> , 2015, 11, s12990-015-0063.	1.0	40

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37	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.	1.1	40
38	Are Diagnostic Lumbar Facet Injections Influenced by Pain of Muscular Origin?. <i>Pain Practice</i> , 2004, 4, 286-291.	0.9	39
39	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, 155-164.	1.5	39
40	Synchronized cluster firing, a distinct form of sensory neuron activation, drives spontaneous pain. <i>Neuron</i> , 2022, 110, 209-220.e6.	3.8	38
41	Localized Sympathectomy Reduces Mechanical Hypersensitivity by Restoring Normal Immune Homeostasis in Rat Models of Inflammatory Pain. <i>Journal of Neuroscience</i> , 2016, 36, 8712-8725.	1.7	36
42	Mineralocorticoid Receptor Blocker Eplerenone Reduces Pain Behaviors <i>In Vivo</i> and Decreases Excitability in Small-diameter Sensory Neurons from Local Inflamed Dorsal Root Ganglia <i>In Vitro</i> . <i>Anesthesiology</i> , 2012, 117, 1102-1112.	1.3	36
43	Upregulation of the sodium channel NaV ^{1.4} 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.	2.0	34
44	Highly Localized Interactions between Sensory Neurons and Sprouting Sympathetic Fibers Observed in a Transgenic Tyrosine Hydroxylase Reporter Mouse. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-53.	1.0	32
45	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, 61-65.	1.0	32
46	Melittin activates TRPV1 receptors in primary nociceptive sensory neurons via the phospholipase A2 cascade pathways. <i>Biochemical and Biophysical Research Communications</i> , 2011, 408, 32-37.	1.0	31
47	High-fat diet exacerbates postoperative pain and inflammation in a sex-dependent manner. <i>Pain</i> , 2018, 159, 1731-1741.	2.0	31
48	Protein kinase A modulates spontaneous activity in chronically compressed dorsal root ganglion neurons in the rat. <i>Pain</i> , 2001, 94, 39-46.	2.0	29
49	Fractalkine/CX3CR1 Contributes to Endometriosis-Induced Neuropathic Pain and Mechanical Hypersensitivity in Rats. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 495.	1.8	29
50	Preclinical Studies of Low Back Pain. <i>Molecular Pain</i> , 2013, 9, 1744-8069-9-17.	1.0	28
51	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.	2.3	28
52	Patch clamp recording from the intact dorsal root ganglion. <i>Journal of Neuroscience Methods</i> , 1998, 79, 97-103.	1.3	27
53	Progress in Sympathetically Mediated Pathological Pain. <i>Journal of Anesthesia and Perioperative Medicine</i> , 2015, 2, 216-225.	0.2	26
54	FHF2 isoforms differentially regulate Nav1.6-mediated resurgent sodium currents in dorsal root ganglion neurons. <i>Pflügers Archiv European Journal of Physiology</i> , 2017, 469, 195-212.	1.3	24

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55	Differential Inhibition of Nav1.7 and Neuropathic Pain by Hybridoma-Produced and Recombinant Monoclonal Antibodies that Target Nav1.7. <i>Neuroscience Bulletin</i> , 2018, 34, 22-41.	1.5	22
56	Peripheral Nerve Injury Sensitizes Neonatal Dorsal Horn Neurons to Tumor Necrosis Factor- α . <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-10.	1.0	21
57	Blocking the Mineralocorticoid Receptor Improves Effectiveness of Steroid Treatment for Low Back Pain in Rats. <i>Anesthesiology</i> , 2014, 121, 632-643.	1.3	21
58	Sympathetic Fiber Sprouting in Chronically Compressed Dorsal Root Ganglia Without Peripheral Axotomy. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005, 1, 19-23.	0.1	20
59	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.	2.0	20
60	Local Sympathectomy Promotes Anti-inflammatory Responses and Relief of Paclitaxel-induced Mechanical and Cold Allodynia in Mice. <i>Anesthesiology</i> , 2020, 132, 1540-1553.	1.3	20
61	Topical Application of Acidic Bupivacaine to the Lumbar Ganglion Induces Mechanical Hyperalgesia in the Rat. <i>Anesthesia and Analgesia</i> , 2001, 93, 466-471.	1.1	19
62	Inflammatory Changes in Paravertebral Sympathetic Ganglia in Two Rat Pain Models. <i>Neuroscience Bulletin</i> , 2018, 34, 85-97.	1.5	19
63	Localized sympathectomy reduces peripheral nerve regeneration and pain behaviors in 2 rat neuropathic pain models. <i>Pain</i> , 2020, 161, 1925-1936.	2.0	18
64	Sympathetic Fiber Sprouting in Chronically Compressed Dorsal Root Ganglia Without Peripheral Axotomy. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005, 1, 19-23.	0.1	16
65	Effects of Bupivacaine and Ropivacaine on High-voltage-activated Calcium Currents of the Dorsal Horn Neurons in Newborn Rats. <i>Anesthesiology</i> , 2001, 95, 139-143.	1.3	15
66	Topical Application of Acidic Bupivacaine to the Lumbar Ganglion Induces Mechanical Hyperalgesia in the Rat. <i>Anesthesia and Analgesia</i> , 2001, 93, 466-471.	1.1	14
67	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.	1.5	14
68	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> , 2022, 163, e106-e120.	2.0	12
69	Recent evidence for activity-dependent initiation of sympathetic sprouting and neuropathic pain. <i>Acta Physiologica Sinica</i> , 2008, 60, 617-27.	0.5	12
70	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.	2.0	11
71	Tumor Necrosis Factor- α Suppresses Sustained Potassium Currents in Rat Small Diameter Sensory Neurons. <i>Open Pain Journal</i> , 2008, 1, 1-7.	0.4	11
72	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.	1.8	10

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73	Role of NaV1.6 and NaV β 24 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.	1.1	9
74	Chapter 8 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, 105-111.	0.9	7
75	Thermosensitivity of large primary sensory neurons. <i>Brain Research</i> , 2002, 926, 18-26.	1.1	7
76	Radicular Low Back Pain. <i>Anesthesiology</i> , 2008, 108, 5-6.	1.3	5
77	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.	0.2	4
78	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.	0.1	3
79	The Sympathetic Nervous System and Pain. , 0, , 156-178.		3
80	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.	0.3	3
81	PATHOPHYSIOLOGY OF PAIN. , 2009, , 4-8.		2
82	Response to Letter Regarding Article, "Peripheral Nociception Associated With Surgical Incision Elicits Remote Nonischemic Cardioprotection via Neurogenic Activation of Protein Kinase C Signaling" <i>Circulation</i> , 2010, 121, .	1.6	2
83	Differential Regulation of the Glucocorticoid Receptor in a Rat Model of Inflammatory Pain. <i>Anesthesia and Analgesia</i> , 2020, 131, 298-306.	1.1	1
84	Localized Inflammatory Irritation of the Lumbar Ganglia: An Animal Model of Chemogenic Low Back Pain and Radiculopathy. <i>Neuromethods</i> , 2011, , 89-102.	0.2	1
85	Cancer-Related Neuropathic Pain. <i>Journal of Neuropathic Pain & Symptom Palliation</i> , 2005, 1, 55-67.	0.1	0
86	Response to Dr. Paraskevas's Comments. <i>Southern Medical Journal</i> , 2007, 100, 412.	0.3	0
87	The anatomy of postoperative pain. , 2010, , 1-9.		0