Ke Ren

List of Publications by Year
in descending order

75 papers	7,237 citations	76326 40 h-index	88630 70 g-index
75 all docs	75 docs citations	75 times ranked	6241 citing authors

#	Article	IF	Citations
1	Interactions between the immune and nervous systems in pain. Nature Medicine, 2010, 16, 1267-1276.	30.7	665
2	Role of interleukin-1Î² during pain and inflammation. Brain Research Reviews, 2009, 60, 57-64.	9.0	557
3	Glial-Cytokine-Neuronal Interactions Underlying the Mechanisms of Persistent Pain. Journal of Neuroscience, 2007, 27, 6006-6018.	3.6	429
4	The effects of a non-competitive NMDA receptor antagonist, MK-801, on behavioral hyperalgesia and dorsal horn neuronal activity in rats with unilateral inflammation. Pain, 1992, 50, 331-344.	4.2	391
5	Descending modulation in persistent pain: an update. Pain, 2002, 100, 1-6.	4.2	362
6	Supraspinal Glialâ€"Neuronal Interactions Contribute to Descending Pain Facilitation. Journal of Neuroscience, 2008, 28, 10482-10495.	3.6	272
7	Central Terminal Sensitization of TRPV1 by Descending Serotonergic Facilitation Modulates Chronic Pain. Neuron, 2014, 81, 873-887.	8.1	262
8	Neuronâ€"glia crosstalk gets serious: role in pain hypersensitivity. Current Opinion in Anaesthesiology, 2008, 21, 570-579.	2.0	239
9	Tyrosine Phosphorylation of the NR2B Subunit of the NMDA Receptor in the Spinal Cord during the Development and Maintenance of Inflammatory Hyperalgesia. Journal of Neuroscience, 2002, 22, 6208-6217.	3.6	230
10	The intrathecal administration of excitatory amino acid receptor antagonists selectively attenuated carrageenan-induced behavioral hyperalgesia in rats. European Journal of Pharmacology, 1992, 219, 235-243.	3.5	223
11	An Improved Method for Assessing Mechanical Allodynia in the Rat. Physiology and Behavior, 1999, 67, 711-716.	2.1	208
12	Spinal glial activation in a new rat model of bone cancer pain produced by prostate cancer cell inoculation of the tibia. Pain, 2005, 118, 125-136.	4.2	179
13	Molecular Depletion of Descending Serotonin Unmasks Its Novel Facilitatory Role in the Development of Persistent Pain. Journal of Neuroscience, 2010, 30, 8624-8636.	3.6	174
14	Supraspinal Brain-Derived Neurotrophic Factor Signaling: A Novel Mechanism for Descending Pain Facilitation. Journal of Neuroscience, 2006, 26, 126-137.	3.6	166
15	IL-1ra alleviates inflammatory hyperalgesia through preventing phosphorylation of NMDA receptor NR-1 subunit in rats. Pain, 2008, 135, 232-239.	4.2	164
16	Group I Metabotropic Glutamate Receptor NMDA Receptor Coupling and Signaling Cascade Mediate Spinal Dorsal Horn NMDA Receptor 2B Tyrosine Phosphorylation Associated with Inflammatory Hyperalgesia. Journal of Neuroscience, 2004, 24, 9161-9173.	3.6	160
17	Periodontal Bone-Ligament-Cementum Regeneration via Scaffolds and Stem Cells. Cells, 2019, 8, 537.	4.1	144
18	Nucleus reticularis gigantocellularis and nucleus raphe magnus in the brain stem exert opposite effects on behavioral hyperalgesia and spinal Fos protein expression after peripheral inflammation. Pain, 1999, 80, 127-141.	4.2	140

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19	Persistent fos protein expression after orofacial deep or cutaneous tissue inflammation in rats: Implications for persistent orofacial pain. , 1999, 412, 276-291.		124
20	Pain Facilitation and Activity-Dependent Plasticity in Pain Modulatory Circuitry: Role of BDNF-TrkB Signaling and NMDA Receptors. Molecular Neurobiology, 2007, 35, 224-235.	4.0	106
21	Bone Marrow Stromal Cells Produce Long-Term Pain Relief in Rat Models of Persistent Pain. Stem Cells, 2011, 29, 1294-1303.	3.2	86
22	Activity-induced plasticity in brain stem pain modulatory circuitry after inflammation. NeuroReport, 2000, 11, 1915-1919.	1.2	85
23	Plasticity in Excitatory Amino Acid Receptor-Mediated Descending Pain Modulation after Inflammation. Journal of Pharmacology and Experimental Therapeutics, 2002, 300, 513-520.	2.5	83
24	Long-term effects of short-lasting early local inflammatory insult. NeuroReport, 2001, 12, 399-403.	1.2	80
25	Masseteric inflammation-induced Fos protein expression in the trigeminal interpolaris/caudalis transition zone: contribution of somatosensoryâ€“vagalâ€“adrenal integration. Brain Research, 1999, 845, 165-175.	2.2	77
26	Wind-up and the NMDA receptor: from animal studies to humans. Pain, 1994, 59, 157-158.	4.2	75
27	Trigeminal transition zone/rostral ventromedial medulla connections and facilitation of orofacial hyperalgesia after masseter inflammation in rats. Journal of Comparative Neurology, 2005, 493, 510-523.	1.6	75
28	The Role Of Trigeminal Interpolaris-Caudalis Transition Zone In Persistent Orofacial Pain. International Review of Neurobiology, 2011, 97, 207-225.	2.0	73
29	Spinal 5-HT₃ Receptors Mediate Descending Facilitation and Contribute to Behavioral Hypersensitivity via a Reciprocal Neuron-Glial Signaling Cascade. Molecular Pain, 2014, 10, 1744-8069-10-35.	2.1	73
30	Spinal interleukin-17 promotes thermal hyperalgesia and NMDA NR1 phosphorylation in an inflammatory pain rat model. Pain, 2013, 154, 294-305.	4.2	72
31	Differential Involvement of Trigeminal Transition Zone and Laminated Subnucleus Caudalis in Orofacial Deep and Cutaneous Hyperalgesia: the Effects of Interleukin-10 and Glial Inhibitors. Molecular Pain, 2009, 5, 1744-8069-5-75.	2.1	69
32	Transition to Persistent Orofacial Pain after Nerve Injury Involves Supraspinal Serotonin Mechanisms. Journal of Neuroscience, 2013, 33, 5152-5161.	3.6	69
33	Inflammation-induced upregulation of AMPA receptor subunit expression in brain stem pain modulatory circuitry. Pain, 2003, 104, 401-413.	4.2	60
34	Phosphorylation of Extracellular Signal-Regulated Kinase in medullary and upper cervical cord neurons following noxious tooth pulp stimulation. Brain Research, 2006, 1072, 99-109.	2.2	59
35	Epigenetic regulation of persistent pain. Translational Research, 2015, 165, 177-199.	5.0	59
36	Exosomes in perspective: a potential surrogate for stem cell therapy. Odontology / the Society of the Nippon Dental University, 2019, 107, 271-284.	1.9	52

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37	Brainstem mechanisms of persistent pain following injury. Journal of Orofacial Pain, 2004, 18, 299-305.	1.7	52
38	Changes in AMPA receptor phosphorylation in the rostral ventromedial medulla after inflammatory hyperalgesia in rats. Neuroscience Letters, 2004, 366, 201-205.	2.1	47
39	Differential rostral projections of caudal brainstem neurons receiving trigeminal input after masseter inflammation. Journal of Comparative Neurology, 2003, 465, 220-233.	1.6	46
40	Inflammation and hyperalgesia in rats neonatally treated with capsaicin: effects on two classes of nociceptive neurons in the superficial dorsal horn. Pain, 1994, 59, 287-300.	4.2	42
41	Selective upregulation of the flip-flop splice variants of AMPA receptor subunits in the rat spinal cord after hindpaw inflammation. Molecular Brain Research, 2001, 88, 186-193.	2.3	41
42	Long Lasting Pain Hypersensitivity following Ligation of the Tendon of the Masseter Muscle in Rats: A Model of Myogenic Orofacial Pain. Molecular Pain, 2010, 6, 1744-8069-6-40.	2.1	41
43	Emerging role of astroglia in pain hypersensitivity. Japanese Dental Science Review, 2010, 46, 86-92.	5.1	41
44	Engineering bone regeneration with novel cell-laden hydrogel microfiber-injectable calcium phosphate scaffold. Materials Science and Engineering C, 2017, 75, 895-905.	7.3	41
45	Stem cells in the periodontal ligament differentiated into osteogenic, fibrogenic and cementogenic lineages for the regeneration of the periodontal complex. Journal of Dentistry, 2020, 92, 103259.	4.1	41
46	Neonatal Local Noxious Insult Affects Gene Expression in the Spinal Dorsal Horn of Adult Rats. Molecular Pain, 2005, 1, 1744-8069-1-27.	2.1	40
47	Activity-triggered tetrapartite neuronâ€“glial interactions following peripheral injury. Current Opinion in Pharmacology, 2016, 26, 16-25.	3.5	38
48	In vivo immune interactions of multipotent stromal cells underlie their long-lasting pain-relieving effect. Scientific Reports, 2017, 7, 10107.	3.3	35
49	Antibody array analysis of peripheral and blood cytokine levels in rats after masseter inflammation. Neuroscience Letters, 2005, 382, 128-133.	2.1	33
50	Chemokine signaling involving chemokine (C-C motif) ligand 2 plays a role in descending pain facilitation. Neuroscience Bulletin, 2012, 28, 193-207.	2.9	31
51	Selective distribution and function of primary afferent nociceptive inputs from deep muscle tissue to the brainstem trigeminal transition zone. Journal of Comparative Neurology, 2006, 498, 390-402.	1.6	30
52	Trigeminal-Rostral Ventromedial Medulla Circuitry is Involved in Orofacial Hyperalgesia Contralateral to Tissue Injury. Molecular Pain, 2012, 8, 1744-8069-8-78.	2.1	30
53	Further observations on the behavioral and neural effects of bone marrow stromal cells in rodent pain models. Molecular Pain, 2016, 12, 174480691665804.	2.1	28
54	Activation of spinal kainate receptors after inflammation: behavioral hyperalgesia and subunit gene expression. European Journal of Pharmacology, 2002, 452, 309-318.	3.5	27

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55	Spinal 5-HT₃Receptor Activation Induces Behavioral Hypersensitivity via a Neuronal-Glial-Neuronal Signaling Cascade. Journal of Neuroscience, 2011, 31, 12823-12836.	3.6	25
56	Human periodontal ligament stem cell seeding on calcium phosphate cement scaffold delivering metformin for bone tissue engineering. Journal of Dentistry, 2019, 91, 103220.	4.1	23
57	Dual Roles for Endothelin-B Receptors in Modulating Adjuvant-Induced Inflammatory Hyperalgesia in Rats. Open Pain Journal, 2009, 2, 30-40.	0.4	22
58	Activation of group I mGlu receptors contributes to facilitation of NMDA receptor membrane current in spinal dorsal horn neurons after hind paw inflammation in rats. European Journal of Pharmacology, 2011, 670, 509-518.	3.5	20
59	An injectable and antibacterial calcium phosphate scaffold inhibiting Staphylococcus aureus and supporting stem cells for bone regeneration. Materials Science and Engineering C, 2021, 120, 111688.	7.3	19
60	NF-KappaB Pathway Is Involved in Bone Marrow Stromal Cell-Produced Pain Relief. Frontiers in Integrative Neuroscience, 2018, 12, 49.	2.1	15
61	Voluntary biting behavior as a functional measure of orofacial pain in mice. Physiology and Behavior, 2019, 204, 129-139.	2.1	15
62	An antibacterial and injectable calcium phosphate scaffold delivering human periodontal ligament stem cells for bone tissue engineering. RSC Advances, 2020, 10, 40157-40170.	3.6	14
63	Activation of trigeminal intranuclear pathway in rats with temporomandibular joint inflammation. Journal of Oral Science, 2005, 47, 65-69.	1.7	10
64	Altered glial glutamate transporter expression in descending circuitry and the emergence of pain chronicity. Molecular Pain, 2019, 15, 174480691882504.	2.1	10
65	Antibacterial calcium phosphate cement with human periodontal ligament stem cellâ€microbeads to enhance bone regeneration and combat infection. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 232-243.	2.7	10
66	Multipotent stromal cells for arthritic joint pain therapy and beyond. Pain Management, 2014, 4, 153-162.	1.5	8
67	Demonstration of a trigeminothalamic pathway to the oval paracentral intralaminar thalamic nucleus and its involvement in the processing of noxious orofacial deep inputs. Brain Research, 2006, 1097, 116-122.	2.2	6
68	Hot Topic: [Neuron, glia and reciprocal relationships in pain processing (Guest Editor: Dr. Ke Ren)]. Open Pain Journal, 2010, 3, 1-36.	0.4	6
69	The medulla oblongata: The vital center for descending modulation. Journal of Pain, 2002, 3, 355-357.	1.4	3
70	Grand Challenges in Musculoskeletal Pain Research: Chronicity, Comorbidity, Immune Regulation, Sex Differences, Diagnosis, and Treatment Opportunities. Frontiers in Pain Research, 2020, 1, .	2.0	3
71	Differential responses of rostral subnucleus caudalis and upper cervical dorsal horn neurons to mechanical and chemical stimulation of the parotid gland in rats. Brain Research, 2006, 1106, 123-133.	2.2	1
72	An Overview of Epigenetic Correlates of Human Chronic Pain Conditions. , 2019, , 183-228.		1

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73	Further evidence on a role of chemokines in injuryâ€related pain hypersensitivity. European Journal of Pain, 2012, 16, 1209-1210.	2.8	0
74	Epigenetic Tools in Chronic Pain Studies. , 2019, , 1-48.		0
75	Commentary on Ma et al. Resveratrol brings back happy bugâ€™s harmony. Brain, Behavior, and Immunity, 2020, 87, 197-198.	4.1	0