

Yun Guan

List of Publications by Year in descending order

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104
papers

5,668
citations

117625

34
h-index

85541

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111
all docs

111
docs citations

111
times ranked

5560
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory Neuron-Specific GPCR Mrgprs Are Itch Receptors Mediating Chloroquine-Induced Pruritus. <i>Cell</i> , 2009, 139, 1353-1365.	28.9	681
2	A subpopulation of nociceptors specifically linked to itch. <i>Nature Neuroscience</i> , 2013, 16, 174-182.	14.8	477
3	Injury-induced mechanical hypersensitivity requires C-low threshold mechanoreceptors. <i>Nature</i> , 2009, 462, 651-655.	27.8	392
4	Subchondral bone osteoclasts induce sensory innervation and osteoarthritis pain. <i>Journal of Clinical Investigation</i> , 2019, 129, 1076-1093.	8.2	239
5	Spinal Cord Stimulation: Clinical Efficacy and Potential Mechanisms. <i>Pain Practice</i> , 2018, 18, 1048-1067.	1.9	225
6	Coupled Activation of Primary Sensory Neurons Contributes to Chronic Pain. <i>Neuron</i> , 2016, 91, 1085-1096.	8.1	216
7	TRP Vanilloid 2 Knock-Out Mice Are Susceptible to Perinatal Lethality But Display Normal Thermal and Mechanical Nociception. <i>Journal of Neuroscience</i> , 2011, 31, 11425-11436.	3.6	193
8	Parameters of Spinal Cord Stimulation and Their Role in Electrical Charge Delivery: A Review. <i>Neuromodulation</i> , 2016, 19, 373-384.	0.8	171
9	Conventional and Kilohertz-frequency Spinal Cord Stimulation Produces Intensity- and Frequency-dependent Inhibition of Mechanical Hypersensitivity in a Rat Model of Neuropathic Pain. <i>Anesthesiology</i> , 2013, 119, 422-432.	2.5	160
10	Spinal Cord Stimulation-induced Analgesia. <i>Anesthesiology</i> , 2010, 113, 1392-1405.	2.5	154
11	Prostaglandin E2 mediates sensory nerve regulation of bone homeostasis. <i>Nature Communications</i> , 2019, 10, 181.	12.8	152
12	Tmem100 Is a Regulator of TRPA1-TRPV1 Complex and Contributes to Persistent Pain. <i>Neuron</i> , 2015, 85, 833-846.	8.1	143
13	Leaky Gate Model: Intensity-Dependent Coding of Pain and Itch in the Spinal Cord. <i>Neuron</i> , 2017, 93, 840-853.e5.	8.1	131
14	Spinal Cord Stimulation: Neurophysiological and Neurochemical Mechanisms of Action. <i>Current Pain and Headache Reports</i> , 2012, 16, 217-225.	2.9	113
15	Peripherally acting mu-opioid receptor agonist attenuates neuropathic pain in rats after L5 spinal nerve injury. <i>Pain</i> , 2008, 138, 318-329.	4.2	105
16	Genetic Knockout and Pharmacologic Inhibition of Neuronal Nitric Oxide Synthase Attenuate Nerve Injury-Induced Mechanical Hypersensitivity in Mice. <i>Molecular Pain</i> , 2007, 3, 1744-8069-3-29.	2.1	93
17	Spinal Cord Stimulation for Treating Chronic Pain: Reviewing Preclinical and Clinical Data on Paresthesia-Free High-Frequency Therapy. <i>Neuromodulation</i> , 2018, 21, 10-18.	0.8	85
18	Mas-related G-protein-coupled receptors inhibit pathological pain in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15933-15938.	7.1	74

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19	Modulating the delicate glial-neuronal interactions in neuropathic pain: Promises and potential caveats. <i>Neuroscience and Biobehavioral Reviews</i> , 2014, 45, 19-27.	6.1	74
20	Sensory innervation in porous endplates by Netrin-1 from osteoclasts mediates PGE2-induced spinal hypersensitivity in mice. <i>Nature Communications</i> , 2019, 10, 5643.	12.8	72
21	Windup in Dorsal Horn Neurons Is Modulated by Endogenous Spinal μ -Opioid Mechanisms. <i>Journal of Neuroscience</i> , 2006, 26, 4298-4307.	3.6	65
22	Electrical stimulation of low-threshold afferent fibers induces a prolonged synaptic depression in lamina II dorsal horn neurons to high-threshold afferent inputs in mice. <i>Pain</i> , 2015, 156, 1008-1017.	4.2	63
23	Dynamic temporal and spatial regulation of mu opioid receptor expression in primary afferent neurons following spinal nerve injury. <i>European Journal of Pain</i> , 2011, 15, 669-675.	2.8	56
24	Targeting human Mas-related G protein-coupled receptor X1 to inhibit persistent pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1996-E2005.	7.1	53
25	Sex differences in gene regulation in the dorsal root ganglion after nerve injury. <i>BMC Genomics</i> , 2019, 20, 147.	2.8	53
26	Activation of cannabinoid CB1 receptor contributes to suppression of spinal nociceptive transmission and inhibition of mechanical hypersensitivity by $A\delta$ -fiber stimulation. <i>Pain</i> , 2016, 157, 2582-2593.	4.2	50
27	Cellular and molecular mechanisms driving neuropathic pain: recent advancements and challenges. <i>Expert Opinion on Therapeutic Targets</i> , 2018, 22, 131-142.	3.4	50
28	Bipolar spinal cord stimulation attenuates mechanical hypersensitivity at an intensity that activates a small portion of A-fiber afferents in spinal nerve-injured rats. <i>Neuroscience</i> , 2011, 199, 470-480.	2.3	48
29	Monocarboxylate transporter 1 in Schwann cells contributes to maintenance of sensory nerve myelination during aging. <i>Glia</i> , 2020, 68, 161-177.	4.9	46
30	Supraspinal Mechanisms of Spinal Cord Stimulation for Modulation of Pain. <i>Anesthesiology</i> , 2019, 130, 651-665.	2.5	45
31	Activation of μ -opioid receptor heteromers inhibits neuropathic pain behavior in rodents. <i>Pain</i> , 2020, 161, 842-855.	4.2	43
32	Activation of Peripheral μ -opioid Receptors by Dermorphin [$\text{D}^{\text{Arg}2, \text{Lys}4}$] Amide Leads to Modality-preferred Inhibition of Neuropathic Pain. <i>Anesthesiology</i> , 2016, 124, 706-720.	2.5	40
33	Astrocytes contribute to pain gating in the spinal cord. <i>Science Advances</i> , 2021, 7, eabi6287.	10.3	40
34	Peripherally Acting μ -Opioid Receptor Agonists Attenuate Ongoing Pain-associated Behavior and Spontaneous Neuronal Activity after Nerve Injury in Rats. <i>Anesthesiology</i> , 2018, 128, 1220-1236.	2.5	39
35	RNA-seq of spinal cord from nerve-injured rats after spinal cord stimulation. <i>Molecular Pain</i> , 2018, 14, 174480691881742.	2.1	39
36	MrgC agonism at central terminals of primary sensory neurons inhibits neuropathic pain. <i>Pain</i> , 2014, 155, 534-544.	4.2	38

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37	Spinal Cord Stimulation for Pain Treatment After Spinal Cord Injury. <i>Neuroscience Bulletin</i> , 2019, 35, 527-539.	2.9	36
38	Melatonin improves functional recovery in female rats after acute spinal cord injury by modulating polarization of spinal microglial/macrophages. <i>Journal of Neuroscience Research</i> , 2019, 97, 733-743.	2.9	35
39	Parathyroid hormone attenuates osteoarthritis pain by remodeling subchondral bone in mice. <i>ELife</i> , 2021, 10, .	6.0	34
40	Aberrant subchondral osteoblastic metabolism modifies Nav1.8 for osteoarthritis. <i>ELife</i> , 2020, 9, .	6.0	34
41	Suppression of spinal connexin 43 expression attenuates mechanical hypersensitivity in rats after an L5 spinal nerve injury. <i>Neuroscience Letters</i> , 2014, 566, 194-199.	2.1	33
42	Differential expression of voltage-gated sodium channels in afferent neurons renders selective neural block by ionic direct current. <i>Science Advances</i> , 2018, 4, eaaq1438.	10.3	30
43	John J. Bonica Award Lecture: Peripheral neuronal hyperexcitability: the "low-hanging" target for safe therapeutic strategies in neuropathic pain. <i>Pain</i> , 2020, 161, S14-S26.	4.2	30
44	A partial L5 spinal nerve ligation induces a limited prolongation of mechanical allodynia in rats: An efficient model for studying mechanisms of neuropathic pain. <i>Neuroscience Letters</i> , 2010, 471, 43-47.	2.1	26
45	Spinal cord stimulation prevents paclitaxel-induced mechanical and cold hypersensitivity and modulates spinal gene expression in rats. <i>Pain Reports</i> , 2019, 4, e785.	2.7	25
46	Temporal changes in MrgC expression after spinal nerve injury. <i>Neuroscience</i> , 2014, 261, 43-51.	2.3	24
47	Activation of MrgC receptor inhibits N-type calcium channels in small-diameter primary sensory neurons in mice. <i>Pain</i> , 2014, 155, 1613-1621.	4.2	24
48	Electrical Stimulation of Dorsal Root Entry Zone Attenuates Wide-Dynamic-Range Neuronal Activity in Rats. <i>Neuromodulation</i> , 2015, 18, 33-40.	0.8	24
49	Spinal Cord Stimulation Enhances Microglial Activation in the Spinal Cord of Nerve-Injured Rats. <i>Neuroscience Bulletin</i> , 2020, 36, 1441-1453.	2.9	24
50	Maladaptive Plasticity and Neuropathic Pain. <i>Neural Plasticity</i> , 2016, 2016, 1-2.	2.2	23
51	Melatonin for the treatment of spinal cord injury. <i>Neural Regeneration Research</i> , 2018, 13, 1685.	3.0	23
52	Down-regulation of Stargazin Inhibits the Enhanced Surface Delivery of α -Amino-3-hydroxy-5-methyl-4-isoxazole Propionate Receptor GluR1 Subunit in Rat Dorsal Horn and Ameliorates Postoperative Pain. <i>Anesthesiology</i> , 2014, 121, 609-619.	2.5	22
53	Calcium imaging in population of dorsal root ganglion neurons unravels novel mechanisms of visceral pain sensitization and referred somatic hypersensitivity. <i>Pain</i> , 2021, 162, 1068-1081.	4.2	22
54	Intrathecal carbenoxolone inhibits neuropathic pain and spinal wide-dynamic range neuronal activity in rats after an L5 spinal nerve injury. <i>Neuroscience Letters</i> , 2014, 563, 45-50.	2.1	19

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55	Demethylation regulation of BDNF gene expression in dorsal root ganglion neurons is implicated in opioid-induced pain hypersensitivity in rats. <i>Neurochemistry International</i> , 2016, 97, 91-98.	3.8	19
56	Mas-Related G Protein-Coupled Receptors Offer Potential New Targets for Pain Therapy. <i>Advances in Experimental Medicine and Biology</i> , 2016, 904, 87-103.	1.6	18
57	Novel <i>NTRK1</i> mutations in Chinese patients with congenital insensitivity to pain with anhidrosis. <i>Molecular Pain</i> , 2018, 14, 174480691878114.	2.1	18
58	Genotypic and Phenotypic Analysis in Chinese Cohort With Autosomal Recessive Osteogenesis Imperfecta. <i>Frontiers in Genetics</i> , 2020, 11, 984.	2.3	18
59	Riluzole improves functional recovery after acute spinal cord injury in rats and may be associated with changes in spinal microglia/macrophages polarization. <i>Neuroscience Letters</i> , 2020, 723, 134829.	2.1	18
60	Tolerance develops to the antiallodynic effects of the peripherally acting opioid loperamide hydrochloride in nerve-injured rats. <i>Pain</i> , 2013, 154, 2477-2486.	4.2	17
61	Pirt Contributes to Uterine Contraction-Induced Pain in Mice. <i>Molecular Pain</i> , 2015, 11, s12990-015-0054.	2.1	17
62	Resveratrol fails to affect cocaine conditioned place preference behavior, but alleviates anxiety-like behaviors in cocaine withdrawn rats. <i>Psychopharmacology</i> , 2016, 233, 1279-1287.	3.1	17
63	Electroacupuncture alleviates adolescent cocaine exposure-enhanced anxiety-like behaviors in adult mice by attenuating the activities of PV interneurons in PrL. <i>FASEB Journal</i> , 2020, 34, 11913-11924.	0.5	17
64	PGE2/EP4 skeleton interoception activity reduces vertebral endplate porosity and spinal pain with low-dose celecoxib. <i>Bone Research</i> , 2021, 9, 36.	11.4	17
65	Oligomerization of MrgC11 and δ -opioid receptors in sensory neurons enhances morphine analgesia. <i>Science Signaling</i> , 2018, 11, .	3.6	16
66	The Impact of Electrical Charge Delivery on Inhibition of Mechanical Hypersensitivity in Nerve-Injured Rats by Sub-Sensory Threshold Spinal Cord Stimulation. <i>Neuromodulation</i> , 2019, 22, 163-171.	0.8	16
67	Mechanisms of bone pain: Progress in research from bench to bedside. <i>Bone Research</i> , 2022, 10, .	11.4	15
68	Effects of Combined Electrical Stimulation of the Dorsal Column and Dorsal Roots on Wide-Dynamic-Range Neuronal Activity in Nerve-Injured Rats. <i>Neuromodulation</i> , 2015, 18, 592-598.	0.8	14
69	The inhibition of high-voltage-activated calcium current by activation of MrgC11 involves phospholipase C-dependent mechanisms. <i>Neuroscience</i> , 2015, 300, 393-403.	2.3	13
70	Dermorphin [D-Arg2, Lys4] (1-4) amide inhibits below-level heat hypersensitivity in mice after contusive thoracic spinal cord injury. <i>Pain</i> , 2019, 160, 2710-2723.	4.2	13
71	Upregulation of β 1 Calcium Channel Subunit in the Spinal Cord Contributes to Pelvic Organ Cross-Sensitization in a Rat Model of Experimentally-Induced Endometriosis. <i>Neurochemical Research</i> , 2015, 40, 1267-1273.	3.3	12
72	Adjacent intact nociceptive neurons drive the acute outburst of pain following peripheral axotomy. <i>Scientific Reports</i> , 2019, 9, 7651.	3.3	11

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73	Adolescent cocaine exposure induces prolonged synaptic modifications in medial prefrontal cortex of adult rats. <i>Brain Structure and Function</i> , 2018, 223, 1829-1838.	2.3	10
74	Increased Neuroligin 2 Levels in the Postsynaptic Membrane in Spinal Dorsal Horn may Contribute to Postoperative Pain. <i>Neuroscience</i> , 2018, 382, 14-22.	2.3	10
75	Downregulation of neuroligin1 ameliorates postoperative pain through inhibiting neuroligin1/postsynaptic density 95-mediated synaptic targeting of α -amino-3-hydroxy-5-methyl-4-isoxazole propionate receptor GluA1 subunits in rat dorsal horns. <i>Molecular Pain</i> . 2018. 14. 174480691876674.	2.1	10
76	Validation and Classification of Atypical Splicing Variants Associated With Osteogenesis Imperfecta. <i>Frontiers in Genetics</i> , 2019, 10, 979.	2.3	10
77	Botulinum toxin type A and gabapentin attenuate postoperative pain and NK1 receptor internalization in rats. <i>Neurochemistry International</i> , 2018, 116, 52-62.	3.8	9
78	Spinal Cord Stimulation. , 2018, , 161-178.		9
79	Spinal Cord Stimulation Attenuates Below-Level Mechanical Hypersensitivity in Rats After Thoracic Spinal Cord Injury. <i>Neuromodulation</i> , 2021, 24, 33-42.	0.8	9
80	Role of peripheral sensory neuron mu-opioid receptors in nociceptive, inflammatory, and neuropathic pain. <i>Regional Anesthesia and Pain Medicine</i> , 2020, 45, 907-916.	2.3	9
81	Comparisons of motor and sensory abnormalities after lumbar and thoracic contusion spinal cord injury in male rats. <i>Neuroscience Letters</i> , 2019, 708, 134358.	2.1	8
82	Thieno[2,3- <i>d</i>]pyrimidine-Based Positive Allosteric Modulators of Human Mas-Related G Protein-Coupled Receptor X1 (MRGPRX1). <i>Journal of Medicinal Chemistry</i> , 2022, 65, 3218-3228.	6.4	8
83	Modulation of Spinal Nociceptive Transmission by Sub-Sensory Threshold Spinal Cord Stimulation in Rats After Nerve Injury. <i>Neuromodulation</i> , 2020, 23, 36-45.	0.8	7
84	Mu-opioidergic modulation differs in deep and superficial wide-dynamic range dorsal horn neurons in mice. <i>Neuroscience Letters</i> , 2013, 549, 157-162.	2.1	6
85	Changes in diffusion tensor imaging indices of the lumbosacral enlargement correlate with cervical spinal cord changes and clinical assessment in patients with cervical spondylotic myelopathy. <i>Clinical Neurology and Neurosurgery</i> , 2019, 186, 105282.	1.4	6
86	Astrocyte-selective <i>STAT3</i> knockdown rescues methamphetamine withdrawal-disrupted spatial memory in mice via restoring the astrocytic capacity of glutamate clearance in <i>dCA1</i> . <i>Glia</i> , 2021, 69, 2404-2418.	4.9	6
87	Global gene expression and chromatin accessibility of the peripheral nervous system in animal models of persistent pain. <i>Journal of Neuroinflammation</i> , 2021, 18, 185.	7.2	6
88	Glossary of Neurostimulation Terminology: Collaborative Neuromodulation Foundation, Institute of Neuromodulation, and International Neuromodulation Society Project. <i>Neuromodulation</i> , 2022, 25, 1050-1058.	0.8	6
89	Modulation of Trans-Synaptic Neurexin-Neuroligin Interaction in Pathological Pain. <i>Cells</i> , 2022, 11, 1940.	4.1	6
90	Electrical stimulation at distinct peripheral sites in spinal nerve injured rats leads to different afferent activation profiles. <i>Neuroscience Letters</i> , 2011, 505, 52-57.	2.1	5

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91	Modeling the interactions between stimulation and physiologically induced APs in a mammalian nerve fiber: dependence on frequency and fiber diameter. <i>Journal of Computational Neuroscience</i> , 2018, 45, 193-206.	1.0	5
92	Wide-dynamic-range neurons are heterogeneous in windup responsiveness to changes in stimulus intensity and isoflurane anesthesia level in mice. <i>Journal of Neuroscience Research</i> , 2010, 88, 2272-2283.	2.9	4
93	Intra-spinal microstimulation may alleviate chronic pain after spinal cord injury. <i>Medical Hypotheses</i> , 2017, 104, 73-77.	1.5	4
94	Deficient mitochondrial respiration in astrocytes impairs trace fear conditioning and increases naloxone-precipitated aversion in morphine-dependent mice. <i>Glia</i> , 2022, 70, 1289-1300.	4.9	4
95	Plerixafor may treat intractable post-herpetic neuralgia. <i>Medical Hypotheses</i> , 2015, 85, 491-493.	1.5	3
96	The emerging role of kainate receptor functional dysregulation in pain. <i>Molecular Pain</i> , 2021, 17, 174480692199094.	2.1	3
97	Editors'™ commentary. <i>Regional Anesthesia and Pain Medicine</i> , 2020, 45, 755-756.	2.3	3
98	Ubiquitin-mediated receptor degradation contributes to development of tolerance to MrgC agonist-induced pain inhibition in neuropathic rats. <i>Pain</i> , 2021, 162, 1082-1094.	4.2	3
99	Electrical neurostimulation for chronic pain: On selective relay of sensory neural activities in myelinated nerve fibers. , 2015, 2015, 4705-8.		2
100	Role of primary sensory neurone cannabinoid type-1 receptors in pain and the analgesic effects of the peripherally acting agonist CB-13 in mice. <i>British Journal of Anaesthesia</i> , 2021, , .	3.4	2
101	Towards Robust Control of PNS for Chronic Pain: Modeling Spinal Cord Wide-Dynamic Range Neurons with Structured Uncertainty. , 2021, 2021, 4399-4402.		2
102	63438 Differential chromatin accessibility at dorsal root ganglia enhancers is associated with nerve injury. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 5-5.	0.6	0
103	Intradural Neuroanatomy in the Cervical Spinal Canal. <i>Spine</i> , 2021, 46, 703-709.	2.0	0
104	Predicting Wide-Dynamic Range Neuron Activity from Peripheral Nerve Stimulation using Linear Parameter Varying Models. , 2021, 2021, 4428-4431.		0