

# Zhigang Luo

## List of Publications by Year in descending order

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33  
papers

3,080  
citations

304743

22  
h-index

434195

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34  
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34  
docs citations

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times ranked

3053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gabapentin Receptor $\alpha 2\delta 1$ Is a Neuronal Thrombospondin Receptor Responsible for Excitatory CNS Synaptogenesis. <i>Cell</i> , 2009, 139, 380-392.	28.9	758
2	Upregulation of Dorsal Root Ganglion $\alpha 2\delta 2$ Calcium Channel Subunit and Its Correlation with Allodynia in Spinal Nerve-Injured Rats. <i>Journal of Neuroscience</i> , 2001, 21, 1868-1875.	3.6	581
3	Calcium channel $\alpha 1$ subunit mediates spinal hyperexcitability in pain modulation. <i>Pain</i> , 2006, 125, 20-34.	4.2	231
4	Spinal Dorsal Horn Calcium Channel $\alpha 2\delta 1$ Subunit Upregulation Contributes to Peripheral Nerve Injury-Induced Tactile Allodynia. <i>Journal of Neuroscience</i> , 2004, 24, 8494-8499.	3.6	222
5	The role of nitric oxide in nociception. <i>Current Review of Pain</i> , 2000, 4, 459-466.	0.7	141
6	Thrombospondin-4 Contributes to Spinal Sensitization and Neuropathic Pain States. <i>Journal of Neuroscience</i> , 2012, 32, 8977-8987.	3.6	114
7	Calcium channel functions in pain processing. <i>Channels</i> , 2010, 4, 510-517.	2.8	112
8	Coupling gene chip analyses and rat genetic variances in identifying potential target genes that may contribute to neuropathic allodynia development. <i>Journal of Neurochemistry</i> , 2003, 87, 560-573.	3.9	104
9	Profiling of dynamically changed gene expression in dorsal root ganglia post peripheral nerve injury and a critical role of injury-induced glial fibrillary acetic protein in maintenance of pain behaviors. <i>Pain</i> , 2009, 143, 114-122.	4.2	100
10	Neuregulin-1/ErbB4 Signaling Regulates Visual Cortical Plasticity. <i>Neuron</i> , 2016, 92, 160-173.	8.1	91
11	A Novel Analgesic Isolated from a Traditional Chinese Medicine. <i>Current Biology</i> , 2014, 24, 117-123.	3.9	85
12	Targeting Voltage-Gated Calcium Channels for Neuropathic Pain Management. <i>Neurotherapeutics</i> , 2009, 6, 679-692.	4.4	84
13	Calcium Channel $\alpha 1$ Proteins Mediate Trigeminal Neuropathic Pain States Associated with Aberrant Excitatory Synaptogenesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 7025-7037.	3.4	50
14	Central Mechanisms Mediating Thrombospondin-4-induced Pain States. <i>Journal of Biological Chemistry</i> , 2016, 291, 13335-13348.	3.4	46
15	Enhanced Pre-Synaptic Glutamate Release in Deep-Dorsal Horn Contributes to Calcium Channel Alpha-2-Delta-1 Protein-Mediated Spinal Sensitization and Behavioral Hypersensitivity. <i>Molecular Pain</i> , 2009, 5, 1744-8069-5-6.	2.1	43
16	Application of Pulsed Radiofrequency Currents to Rat Dorsal Root Ganglia Modulates Nerve Injury-Induced Tactile Allodynia. <i>Anesthesia and Analgesia</i> , 2011, 113, 610-616.	2.2	38
17	Thrombospondin-4 and excitatory synaptogenesis promote spinal sensitization after painful mechanical joint injury. <i>Experimental Neurology</i> , 2015, 264, 111-120.	4.1	37
18	Painful nerve injury upregulates thrombospondin-4 expression in dorsal root ganglia. <i>Journal of Neuroscience Research</i> , 2015, 93, 443-453.	2.9	31

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19	Epileptiform activity and behavioral arrests in mice overexpressing the calcium channel subunit $\alpha_2\delta_1$ . <i>Neurobiology of Disease</i> , 2017, 102, 70-80.	4.4	31
20	Thrombospondin-4 divergently regulates voltage-gated $Ca^{2+}$ channel subtypes in sensory neurons after nerve injury. <i>Pain</i> , 2016, 157, 2068-2080.	4.2	30
21	Gabapentin prevents synaptogenesis between sensory and spinal cord neurons induced by thrombospondin-4 acting on presynaptic $Ca_v1$ subunits and involving $Ca^{2+}$ channels. <i>British Journal of Pharmacology</i> , 2018, 175, 2348-2361.	5.4	28
22	Injury-induced maladaptation and dysregulation of calcium channel $\alpha_2\delta$ subunit proteins and its contribution to neuropathic pain development. <i>British Journal of Pharmacology</i> , 2018, 175, 2231-2243.	5.4	25
23	Rat dorsal root ganglia express distinctive forms of the $\alpha_2$ calcium channel subunit. <i>NeuroReport</i> , 2000, 11, 3449-3452.	1.2	20
24	Increased thrombospondin-4 after nerve injury mediates disruption of intracellular calcium signaling in primary sensory neurons. <i>Neuropharmacology</i> , 2017, 117, 292-304.	4.1	17
25	Acetylcholinesterase and Nicotinic Acetylcholine Receptor Expression Diverge in Muscular Dysgenic Mice Lacking the $\alpha_1$ Calcium Channel. <i>Journal of Neurochemistry</i> , 1996, 67, 111-118.	3.9	13
26	The EGF-LIKE domain of thrombospondin-4 is a key determinant in the development of pain states due to increased excitatory synaptogenesis. <i>Journal of Biological Chemistry</i> , 2018, 293, 16453-16463.	3.4	11
27	Synaptic ultrastructure changes in trigeminocervical complex posttrigeminal nerve injury. <i>Journal of Comparative Neurology</i> , 2016, 524, 309-322.	1.6	10
28	Functional Reorganization of Local Circuit Connectivity in Superficial Spinal Dorsal Horn with Neuropathic Pain States. <i>ENeuro</i> , 2019, 6, ENEURO.0272-19.2019.	1.9	10
29	Expression and ligand specificity of acetylcholinesterase and the nicotinic receptor: a tale of two cholinergic sites. <i>Biochemical Society Transactions</i> , 1994, 22, 740-745.	3.4	7
30	Mechanistic Dissection of Pain. , 2004, 99, 1-10.		4
31	Multilevel Genomic Approach in Pain Research: Basic Science and Clinical Implications. <i>Reviews in Analgesia</i> , 2008, 10, 45-58.	0.9	4
32	Advancements in Pain Research. <i>Methods in Molecular Biology</i> , 2012, 851, 1-8.	0.9	2
33	Increased Astrocyte Thrombospondin-4 Expression in Dorsal Spinal Cord Correlates with Neuropathic Pain States. <i>FASEB Journal</i> , 2012, 26, 662.5.	0.5	0