

Kieran A Boyle

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

1,338
citations

687363

13
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1546
citing authors

#	ARTICLE	IF	CITATIONS
1	The Cellular and Synaptic Architecture of the Mechanosensory Dorsal Horn. <i>Cell</i> , 2017, 168, 295-310.e19.	28.9	306
2	Wnt7a signaling promotes dendritic spine growth and synaptic strength through Ca ²⁺ /Calmodulin-dependent protein kinase II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10732-10737.	7.1	197
3	Circuit dissection of the role of somatostatin in itch and pain. <i>Nature Neuroscience</i> , 2018, 21, 707-716.	14.8	195
4	Morphological, neurochemical and electrophysiological features of parvalbumin-expressing cells: a likely source of axo-axonic inputs in the mouse spinal dorsal horn. <i>Journal of Physiology</i> , 2012, 590, 3927-3951.	2.9	132
5	Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. <i>Cell Reports</i> , 2019, 28, 526-540.e6.	6.4	91
6	A quantitative study of neurochemically defined populations of inhibitory interneurons in the superficial dorsal horn of the mouse spinal cord. <i>Neuroscience</i> , 2017, 363, 120-133.	2.3	68
7	Preprotachykinin A is expressed by a distinct population of excitatory neurons in the mouse superficial spinal dorsal horn including cells that respond to noxious and pruritic stimuli. <i>Pain</i> , 2017, 158, 440-456.	4.2	58
8	HCN4 subunit expression in fast-spiking interneurons of the rat spinal cord and hippocampus. <i>Neuroscience</i> , 2013, 237, 7-18.	2.3	53
9	Wnt signalling tunes neurotransmitter release by directly targeting Synaptotagmin-1. <i>Nature Communications</i> , 2015, 6, 8302.	12.8	44
10	Calretinin positive neurons form an excitatory amplifier network in the spinal cord dorsal horn. <i>eLife</i> , 2019, 8, .	6.0	43
11	Anatomical and Molecular Properties of Long Descending Propriospinal Neurons in Mice. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 5.	1.7	41
12	Inhibitory Interneurons That Express GFP in the PrP-GFP Mouse Spinal Cord Are Morphologically Heterogeneous, Innervated by Several Classes of Primary Afferent and Include Lamina I Projection Neurons among Their Postsynaptic Targets. <i>Journal of Neuroscience</i> , 2015, 35, 7626-7642.	3.6	33
13	Diversity of inhibitory and excitatory parvalbumin interneuron circuits in the dorsal horn. <i>Pain</i> , 2022, 163, e432-e452.	4.2	22
14	Grpr expression defines a population of superficial dorsal horn vertical cells that have a role in both itch and pain. <i>Pain</i> , 2023, 164, 149-170.	4.2	15
15	Characterisation of lamina I anterolateral system neurons that express Cre in a Phox2a-Cre mouse line. <i>Scientific Reports</i> , 2021, 11, 17912.	3.3	11
16	Wnt Signaling Through Nitric Oxide Synthase Promotes the Formation of Multi-Innervated Spines. <i>Frontiers in Synaptic Neuroscience</i> , 2020, 12, 575863.	2.5	7
17	Functional and Molecular Analysis of Proprioceptive Sensory Neuron Excitability in Mice. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 36.	2.9	7
18	Sodium-calcium exchanger-3 regulates pain ω -wind-up: From human psychophysics to spinal mechanisms. <i>Neuron</i> , 2022, 110, 2571-2587.e13.	8.1	7

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19	Functional Populations Among Interneurons in the Dorsal Horn. , 2020, , 207-219.		0