

Richard W Carr

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,086
citations

331670

21
h-index

233421

45
g-index

51
all docs

51
docs citations

51
times ranked

2209
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. <i>Nature</i> , 2007, 447, 856-859.	27.8	355
2	Separate Peripheral Pathways for Pruritus in Man. <i>Journal of Neurophysiology</i> , 2008, 100, 2062-2069.	1.8	238
3	Anticancer drug oxaliplatin induces acute cooling-aggravated neuropathy via sodium channel subtype Na _v 1.6-resurgent and persistent current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6704-6709.	7.1	185
4	Abnormal Function of C-Fibers in Patients with Diabetic Neuropathy. <i>Journal of Neuroscience</i> , 2006, 26, 11287-11294.	3.6	170
5	Conduction velocity is regulated by sodium channel inactivation in unmyelinated axons innervating the rat cranial meninges. <i>Journal of Physiology</i> , 2008, 586, 1089-1103.	2.9	137
6	Modeling activity-dependent changes of axonal spike conduction in primary afferent C-nociceptors. <i>Journal of Neurophysiology</i> , 2014, 111, 1721-1735.	1.8	69
7	Microneurographic assessment of C-fibre function in aged healthy subjects. <i>Journal of Physiology</i> , 2009, 587, 419-428.	2.9	68
8	Interaction of Calcitonin Gene-Related Peptide, Nitric Oxide and Histamine Release in Neurogenic Blood Flow and Afferent Activation in The Rat Cranial Dura Mater. <i>Cephalalgia</i> , 2007, 27, 481-491.	3.9	61
9	Effects of Heating and Cooling on Nerve Terminal Impulses Recorded from Cold-sensitive Receptors in the Guinea-pig Cornea. <i>Journal of General Physiology</i> , 2003, 121, 427-439.	1.9	52
10	Stochastic Resonance in Muscle Receptors. <i>Journal of Neurophysiology</i> , 2004, 91, 2429-2436.	1.8	50
11	Repetitive activity slows axonal conduction velocity and concomitantly increases mechanical activation threshold in single axons of the rat cranial dura. <i>Journal of Physiology</i> , 2012, 590, 725-736.	2.9	46
12	Denervation impairs cutaneous microvascular function and blister healing in the rat hindlimb. <i>NeuroReport</i> , 1993, 4, 467-470.	1.2	41
13	The Effects of Polarizing Current on Nerve Terminal Impulses Recorded from Polymodal and Cold Receptors in the Guinea-pig Cornea. <i>Journal of General Physiology</i> , 2002, 120, 395-405.	1.9	39
14	Catecholamine-induced excitation of nociceptors in sympathetically maintained pain. <i>Pain</i> , 2007, 127, 296-301.	4.2	38
15	Sea-Anemone Toxin ATX-II Elicits A-Fiber-Dependent Pain and Enhances Resurgent and Persistent Sodium Currents in Large Sensory Neurons. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-69.	2.1	38
16	Enhancement of axonal potassium conductance reduces nerve hyperexcitability in an in vitro model of oxaliplatin-induced acute neuropathy. <i>NeuroToxicology</i> , 2010, 31, 694-700.	3.0	35
17	Sodium Channel Na _v 1.8 Underlies TTX-Resistant Axonal Action Potential Conduction in Somatosensory C-Fibers of Distal Cutaneous Nerves. <i>Journal of Neuroscience</i> , 2017, 37, 5204-5214.	3.6	33
18	Tuning in C-nociceptors to reveal mechanisms in chronic neuropathic pain. <i>Annals of Neurology</i> , 2018, 83, 945-957.	5.3	32

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19	Action potential initiation in the peripheral terminals of cold-sensitive neurones innervating the guinea-pig cornea. <i>Journal of Physiology</i> , 2009, 587, 1249-1264.	2.9	31
20	Differential Axonal Conduction Patterns of Mechano-Sensitive and Mechano-Insensitive Nociceptors – A Combined Experimental and Modelling Study. <i>PLoS ONE</i> , 2014, 9, e103556.	2.5	27
21	Nav1.7 and pain: contribution of peripheral nerves. <i>Pain</i> , 2018, 159, 496-506.	4.2	26
22	C-Fiber Recovery Cycle Supernormality Depends on Ion Concentration and Ion Channel Permeability. <i>Biophysical Journal</i> , 2015, 108, 1057-1071.	0.5	20
23	Summation of responses of cat muscle spindles to combined static and dynamic fusimotor stimulation. <i>Brain Research</i> , 1998, 800, 97-104.	2.2	19
24	Thermal grill-evoked sensations of heat correlate with cold pain threshold and are enhanced by menthol and cinnamaldehyde. <i>European Journal of Pain</i> , 2013, 17, 724-734.	2.8	19
25	Central Projection of Pain Arising from Delayed Onset Muscle Soreness (DOMS) in Human Subjects. <i>PLoS ONE</i> , 2012, 7, e47230.	2.5	18
26	GABA Increases Electrical Excitability in a Subset of Human Unmyelinated Peripheral Axons. <i>PLoS ONE</i> , 2010, 5, e8780.	2.5	17
27	Reduced excitability and impaired nociception in peripheral unmyelinated fibers from Nav1.9-null mice. <i>Pain</i> , 2017, 158, 58-67.	4.2	16
28	Low concentrations of amitriptyline inhibit nicotinic receptors in unmyelinated axons of human peripheral nerve. <i>British Journal of Pharmacology</i> , 2009, 158, 797-805.	5.4	15
29	Assessment of TTX-s and TTX-r Action Potential Conduction along Neurites of NGF and GDNF Cultured Porcine DRG Somata. <i>PLoS ONE</i> , 2015, 10, e0139107.	2.5	15
30	Slow depolarizing stimuli differentially activate mechanosensitive and silent C nociceptors in human and pig skin. <i>Pain</i> , 2020, 161, 2119-2128.	4.2	15
31	ACTION OF CHOLINESTERS ON SENSORY NERVE ENDINGS IN SKIN AND MUSCLE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1996, 23, 355-362.	1.9	14
32	Activation of axonal Kv7 channels in human peripheral nerve by flupirtine but not placebo - therapeutic potential for peripheral neuropathies: results of a randomised controlled trial. <i>Journal of Translational Medicine</i> , 2013, 11, 34.	4.4	14
33	Impulse initiation in the mammalian muscle spindle during combined fusimotor stimulation and succinyl choline infusion. <i>Journal of Neurophysiology</i> , 1996, 75, 1703-1713.	1.8	13
34	Summing responses of cat soleus muscle spindles to combined static and dynamic fusimotor stimulation11Published on the World Wide Web on 1 December 2000.. <i>Brain Research</i> , 2001, 888, 348-355.	2.2	13
35	The Kv7 potassium channel activator flupirtine affects clinical excitability parameters of myelinated axons in isolated rat sural nerve. <i>Journal of the Peripheral Nervous System</i> , 2010, 15, 63-72.	3.1	13
36	Neuropeptides in sensory signal processing. <i>Cell and Tissue Research</i> , 2019, 375, 217-225.	2.9	13

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37	Schwann Cell Autocrine and Paracrine Regulatory Mechanisms, Mediated by Allopregnanolone and BDNF, Modulate PKC μ in Peripheral Sensory Neurons. <i>Cells</i> , 2020, 9, 1874.	4.1	13
38	Axonal GABA A stabilizes excitability in unmyelinated sensory axons secondary to NKCC1 activity. <i>Journal of Physiology</i> , 2021, 599, 4065-4084.	2.9	11
39	Can Receptor Potentials Be Detected With Threshold Tracking in Rat Cutaneous Nociceptive Terminals?. <i>Journal of Neurophysiology</i> , 2005, 94, 219-225.	1.8	9
40	Activity-dependent sensory signal processing in mechanically responsive slowly conducting meningeal afferents. <i>Journal of Neurophysiology</i> , 2014, 112, 3077-3085.	1.8	8
41	Olfactory stimulation Inhibits Nociceptive Signal Processing at the Input Stage of the Central Trigeminal System. <i>Neuroscience</i> , 2021, 479, 35-47.	2.3	8
42	Sustained increase in the excitability of myelinated peripheral axons to depolarizing current is mediated by Nav1.6. <i>Neuroscience Letters</i> , 2011, 492, 129-133.	2.1	7
43	TTX-Resistant Sodium Channels Functionally Separate Silent From Polymodal C-nociceptors. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 13.	3.7	7
44	Sympathetic efferent neurons are less sensitive than nociceptors to 4 Hz sinusoidal stimulation. <i>European Journal of Pain</i> , 2020, 24, 122-133.	2.8	6
45	Photoactivation of olfactory sensory neurons does not affect action potential conduction in individual trigeminal sensory axons innervating the rodent nasal cavity. <i>PLoS ONE</i> , 2019, 14, e0211175.	2.5	4
46	Electrophysiology of Corneal Cold Receptor Nerve Terminals. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 19-23.	1.6	4
47	Sensory neuron sodium channel Na _v 1.8 is essential for pain at low temperatures. <i>E-Neuroforum</i> , 2007, 13, 100-102.	0.1	2
48	Bradykinin-Induced Sensitization of Transient Receptor Potential Channel Melastatin 3 Calcium Responses in Mouse Nociceptive Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2022, 16, 843225.	3.7	2
49	185 AMITRIPTYLINE BLOCKS THE DEPOLARISING EFFECT OF NICOTINE IN UNMYELINATED HUMAN AXONS. <i>European Journal of Pain</i> , 2009, 13, S62a.	2.8	0
50	Modelling activity-dependent changes of velocity in C-fibers. <i>Scandinavian Journal of Pain</i> , 2017, 16, 186-187.	1.3	0