

# Richard W Carr

## List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	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
6	Schwann Cell Autocrine and Paracrine Regulatory Mechanisms, Mediated by Allopregnanolone and BDNF, Modulate PKC $\zeta$ in Peripheral Sensory Neurons. <i>Cells</i> , 2020, 9, 1874.	4.1	13
7	TTX-Resistant Sodium Channels Functionally Separate Silent From Polymodal C-nociceptors. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 13.	3.7	7
8	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
9	Neuropeptides in sensory signal processing. <i>Cell and Tissue Research</i> , 2019, 375, 217-225.	2.9	13
10	Tuning in C $\delta$ nociceptors to reveal mechanisms in chronic neuropathic pain. <i>Annals of Neurology</i> , 2018, 83, 945-957.	5.3	32
11	Nav1.7 and pain: contribution of peripheral nerves. <i>Pain</i> , 2018, 159, 496-506.	4.2	26
12	Sodium Channel Na <sub>v</sub> 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
13	Reduced excitability and impaired nociception in peripheral unmyelinated fibers from Nav1.9-null mice. <i>Pain</i> , 2017, 158, 58-67.	4.2	16
14	Modelling activity-dependent changes of velocity in C-fibers. <i>Scandinavian Journal of Pain</i> , 2017, 16, 186-187.	1.3	0
15	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
16	C-Fiber Recovery Cycle Supernormality Depends on Ion Concentration and Ion Channel Permeability. <i>Biophysical Journal</i> , 2015, 108, 1057-1071.	0.5	20
17	Activity-dependent sensory signal processing in mechanically responsive slowly conducting meningeal afferents. <i>Journal of Neurophysiology</i> , 2014, 112, 3077-3085.	1.8	8
18	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

#	ARTICLE	IF	CITATIONS
19	Differential Axonal Conduction Patterns of Mechano-Sensitive and Mechano-Insensitive Nociceptors – A Combined Experimental and Modelling Study. PLoS ONE, 2014, 9, e103556.	2.5	27
20	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. Journal of Translational Medicine, 2013, 11, 34.	4.4	14
21	Thermal grill-evoked sensations of heat correlate with cold pain threshold and are enhanced by menthol and cinnamaldehyde. European Journal of Pain, 2013, 17, 724-734.	2.8	19
22	Anticancer drug oxaliplatin induces acute cooling-aggravated neuropathy via sodium channel subtype Na <sub>v</sub> 1.6-resurgent and persistent current. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6704-6709.	7.1	185
23	Repetitive activity slows axonal conduction velocity and concomitantly increases mechanical activation threshold in single axons of the rat cranial dura. Journal of Physiology, 2012, 590, 725-736.	2.9	46
24	Sea-Anemone Toxin ATX-II Elicits A-Fiber-Dependent Pain and Enhances Resurgent and Persistent Sodium Currents in Large Sensory Neurons. Molecular Pain, 2012, 8, 1744-8069-8-69.	2.1	38
25	Central Projection of Pain Arising from Delayed Onset Muscle Soreness (DOMS) in Human Subjects. PLoS ONE, 2012, 7, e47230.	2.5	18
26	Sustained increase in the excitability of myelinated peripheral axons to depolarizing current is mediated by Nav1.6. Neuroscience Letters, 2011, 492, 129-133.	2.1	7
27	The Kv7 potassium channel activator flupirtine affects clinical excitability parameters of myelinated axons in isolated rat sural nerve. Journal of the Peripheral Nervous System, 2010, 15, 63-72.	3.1	13
28	GABA Increases Electrical Excitability in a Subset of Human Unmyelinated Peripheral Axons. PLoS ONE, 2010, 5, e8780.	2.5	17
29	Enhancement of axonal potassium conductance reduces nerve hyperexcitability in an in vitro model of oxaliplatin-induced acute neuropathy. NeuroToxicology, 2010, 31, 694-700.	3.0	35
30	185 AMITRIPTYLINE BLOCKS THE DEPOLARISING EFFECT OF NICOTINE IN UNMYELINATED HUMAN AXONS. European Journal of Pain, 2009, 13, S62a.	2.8	0
31	Microneurographic assessment of C-fibre function in aged healthy subjects. Journal of Physiology, 2009, 587, 419-428.	2.9	68
32	Action potential initiation in the peripheral terminals of cold-sensitive neurones innervating the guinea-pig cornea. Journal of Physiology, 2009, 587, 1249-1264.	2.9	31
33	Low concentrations of amitriptyline inhibit nicotinic receptors in unmyelinated axons of human peripheral nerve. British Journal of Pharmacology, 2009, 158, 797-805.	5.4	15
34	Conduction velocity is regulated by sodium channel inactivation in unmyelinated axons innervating the rat cranial meninges. Journal of Physiology, 2008, 586, 1089-1103.	2.9	137
35	Separate Peripheral Pathways for Pruritus in Man. Journal of Neurophysiology, 2008, 100, 2062-2069.	1.8	238
36	Sensory neuron sodium channel Na <sub>v</sub> 1.8 is essential for pain at low temperatures. E-Neuroforum, 2007, 13, 100-102.	0.1	2

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37	Catecholamine-induced excitation of nociceptors in sympathetically maintained pain. <i>Pain</i> , 2007, 127, 296-301.	4.2	38
38	Sensory neuron sodium channel Nav1.8 is essential for pain at low temperatures. <i>Nature</i> , 2007, 447, 856-859.	27.8	355
39	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
40	Abnormal Function of C-Fibers in Patients with Diabetic Neuropathy. <i>Journal of Neuroscience</i> , 2006, 26, 11287-11294.	3.6	170
41	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
42	Stochastic Resonance in Muscle Receptors. <i>Journal of Neurophysiology</i> , 2004, 91, 2429-2436.	1.8	50
43	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
44	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
45	Electrophysiology of Corneal Cold Receptor Nerve Terminals. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 19-23.	1.6	4
46	Summing responses of cat soleus muscle spindles to combined static and dynamic fusimotor stimulation <sup>11</sup> Published on the World Wide Web on 1 December 2000.. <i>Brain Research</i> , 2001, 888, 348-355.	2.2	13
47	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
48	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
49	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
50	Denervation impairs cutaneous microvascular function and blister healing in the rat hindlimb. <i>NeuroReport</i> , 1993, 4, 467-470.	1.2	41