

James A Brock

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,678
citations

186265

28
h-index

189892

50
g-index

80
all docs

80
docs citations

80
times ranked

2030
citing authors

#	ARTICLE	IF	CITATIONS
1	TFOS DEWS II pain and sensation report. <i>Ocular Surface</i> , 2017, 15, 404-437.	4.4	437
2	Tetrodotoxin-resistant impulses in single nociceptor nerve terminals in guinea-pig cornea. <i>Journal of Physiology</i> , 1998, 512, 211-217.	2.9	186
3	Electrical activity at the sympathetic neuroeffector junction in the guinea-pig vas deferens. <i>Journal of Physiology</i> , 1988, 399, 607-632.	2.9	130
4	Relationship between the nerve action potential and transmitter release from sympathetic postganglionic nerve terminals. <i>Nature</i> , 1987, 326, 605-607.	27.8	105
5	Converting cold into pain. <i>Experimental Brain Research</i> , 2009, 196, 13-30.	1.5	99
6	Determinants of thermal pain thresholds in normal subjects. <i>Clinical Neurophysiology</i> , 2008, 119, 2389-2395.	1.5	77
7	Differences between nerve terminal impulses of polymodal nociceptors and cold sensory receptors of the guinea-pig cornea. <i>Journal of Physiology</i> , 2001, 533, 493-501.	2.9	71
8	Sensory and sympathetic innervation of the mouse and guinea pig corneal epithelium. <i>Journal of Comparative Neurology</i> , 2013, 521, 877-893.	1.6	70
9	Transient receptor potential cation channel subfamily V member 1 expressing corneal sensory neurons can be subdivided into at least three subpopulations. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 71.	1.7	69
10	Piezo2 expression in corneal afferent neurons. <i>Journal of Comparative Neurology</i> , 2014, 522, 2967-2979.	1.6	63
11	Effects of a selective neuropeptide Y Y2 receptor antagonist, BII0246, on Y2 receptors at peripheral neuroeffector junctions. <i>British Journal of Pharmacology</i> , 2001, 132, 861-868.	5.4	62
12	ATP is the predominant sympathetic neurotransmitter in rat mesenteric arteries at high pressure. <i>Journal of Physiology</i> , 2007, 582, 745-754.	2.9	57
13	Effects of Ca ²⁺ concentration and Ca ²⁺ channel blockers on noradrenaline release and purinergic neuroeffector transmission in rat tail artery. <i>British Journal of Pharmacology</i> , 1999, 126, 11-18.	5.4	53
14	Enhanced excitatory junction potentials in mesenteric arteries from spontaneously hypertensive rats. <i>Pflügers Archiv European Journal of Physiology</i> , 1995, 430, 901-908.	2.8	52
15	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
16	Tail arteries from chronically spinalized rats have potentiated responses to nerve stimulation <i>in vitro</i> . <i>Journal of Physiology</i> , 2004, 556, 545-555.	2.9	51
17	INHIBITION OF TRANSMITTER RELEASE FROM SYMPATHETIC NERVE ENDINGS BY α -CONOTOXIN. <i>Clinical and Experimental Pharmacology and Physiology</i> , 1989, 16, 333-339.	1.9	45
18	Enhanced neurally evoked responses and inhibition of norepinephrine reuptake in rat mesenteric arteries after spinal transection. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 290, H398-H405.	3.2	45

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19	β 2-Adrenoceptor-mediated autoinhibition of sympathetic transmitter release in guinea-pig vas deferens studied by intracellular and focal extracellular recording of junction potentials and currents. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1990, 342, 45-52.	3.0	44
20	Chronic decentralization potentiates neurovascular transmission in the isolated rat tail artery, mimicking the effects of spinal transection. <i>Journal of Physiology</i> , 2004, 561, 583-596.	2.9	41
21	Sites of action of ghrelin receptor ligands in cardiovascular control. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H1011-H1021.	3.2	41
22	Electrochemical and electrophysiological characterization of neurotransmitter release from sympathetic nerves supplying rat mesenteric arteries. <i>British Journal of Pharmacology</i> , 1999, 128, 174-180.	5.4	39
23	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
24	Time course of transmitter action at the sympathetic neuroeffector junction in rodent vascular and non-vascular smooth muscle.. <i>Journal of Physiology</i> , 1988, 401, 657-670.	2.9	35
25	Damaging effects of ischemia/reperfusion on intestinal muscle. <i>Cell and Tissue Research</i> , 2011, 343, 411-419.	2.9	34
26	Stimulation of defecation in spinal cord-injured rats by a centrally acting ghrelin receptor agonist. <i>Spinal Cord</i> , 2011, 49, 1036-1041.	1.9	32
27	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
28	The mechanism of enhanced defecation caused by the ghrelin receptor agonist, ulimorelin. <i>Neurogastroenterology and Motility</i> , 2014, 26, 264-271.	3.0	31
29	The neurochemistry and morphology of functionally identified corneal polymodal nociceptors and cold thermoreceptors. <i>PLoS ONE</i> , 2018, 13, e0195108.	2.5	31
30	Prevention of high blood pressure by reducing sympathetic innervation in the spontaneously hypertensive rat. <i>Journal of the Autonomic Nervous System</i> , 1996, 61, 97-102.	1.9	27
31	Zinc drives vasorelaxation by acting in sensory nerves, endothelium and smooth muscle. <i>Nature Communications</i> , 2021, 12, 3296.	12.8	25
32	Electrical activity in rat tail artery during asynchronous activation of postganglionic nerve terminals by ciguatoxin. <i>British Journal of Pharmacology</i> , 1995, 116, 2213-2220.	5.4	23
33	Electrophysiological effects of activating the peptidergic primary afferent innervation of rat mesenteric arteries. <i>British Journal of Pharmacology</i> , 2003, 140, 231-238.	5.4	23
34	Selective modulation of noradrenaline release by β 2 -adrenoceptor blockade in the rat-tail artery in vitro. <i>British Journal of Pharmacology</i> , 2004, 142, 267-274.	5.4	22
35	Impulse conduction in sympathetic nerve terminals in the guinea-pig vas deferens and the role of the pelvic ganglia. <i>Neuroscience</i> , 1992, 47, 185-196.	2.3	21
36	β 2 -Adrenoceptor mediated facilitation of noradrenaline and adenosine 5'-triphosphate release from sympathetic nerves supplying the rat tail artery. <i>British Journal of Pharmacology</i> , 1997, 120, 769-776.	5.4	21

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37	Transient supersensitivity to α -adrenoceptor agonists, and distinct hyperreactivity to vasopressin and angiotensin II after denervation of rat tail artery. <i>British Journal of Pharmacology</i> , 2010, 159, 142-153.	5.4	21
38	Sympathetic Vasoconstriction Is Potentiated in Arteries Caudal but Not Rostral to a Spinal Cord Transection in Rats. <i>Journal of Neurotrauma</i> , 2010, 27, 2077-2089.	3.4	21
39	A quantitative assessment of pyrethroid-induced paraesthesia in the guinea-pig flank model. <i>Toxicology Letters</i> , 1987, 36, 1-7.	0.8	20
40	Adaptations of peripheral vasoconstrictor pathways after spinal cord injury. <i>Progress in Brain Research</i> , 2006, 152, 289-297.	1.4	20
41	Ghrelin receptors are expressed by distal tubules of the mouse kidney. <i>Cell and Tissue Research</i> , 2011, 346, 135-139.	2.9	18
42	Spontaneous release of large packets of noradrenaline from sympathetic nerve terminals in rat mesenteric arteries in vitro. <i>British Journal of Pharmacology</i> , 2000, 131, 1507-1511.	5.4	17
43	Hypotensive effects of ghrelin receptor agonists mediated through a novel receptor. <i>British Journal of Pharmacology</i> , 2014, 171, 1275-1286.	5.4	17
44	Evidence for functional ghrelin receptors on parasympathetic preganglionic neurons of micturition control pathways in the rat. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2010, 37, 926-932.	1.9	16
45	Identification of neurons that express ghrelin receptors in autonomic pathways originating from the spinal cord. <i>Cell and Tissue Research</i> , 2012, 348, 397-405.	2.9	14
46	The Effects of Diabetes and High-Fat Diet on Polymodal Nociceptor and Cold Thermoreceptor Nerve Terminal Endings in the Corneal Epithelium. , 2019, 60, 209.		14
47	Responses to sympathetic nerve stimulation of the sinus venosus of the toad.. <i>Journal of Physiology</i> , 1993, 461, 403-430.	2.9	13
48	Rho kinase inhibitors reduce neurally evoked contraction of the rat tail artery in vitro. <i>British Journal of Pharmacology</i> , 2005, 146, 854-861.	5.4	13
49	Transmitter Release from Sympathetic Nerve Terminals on an Impulse-by-Impulse Basis and Presynaptic Receptors. <i>Annals of the New York Academy of Sciences</i> , 1990, 604, 176-187.	3.8	12
50	Inhibition of purinergic transmission by prostaglandin E_1 and E_2 in the guinea-pig vas deferens: an electrophysiological study. <i>British Journal of Pharmacology</i> , 1996, 118, 776-782.	5.4	12
51	Prominent contribution of L-type Ca^{2+} channels to cutaneous neurovascular transmission that is revealed after spinal cord injury augments vasoconstriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 302, H752-H762.	3.2	12
52	Spinal cord thermosensitivity: An afferent phenomenon?. <i>Temperature</i> , 2016, 3, 232-239.	3.0	12
53	Barium ions inhibit the dynamic response of guinea-pig corneal cold receptors to heating but not to cooling. <i>Journal of Physiology</i> , 2006, 575, 573-581.	2.9	11
54	Postnatal androgen deprivation dissociates the development of smooth muscle innervation from functional neurotransmission in mouse vas deferens. <i>Journal of Physiology</i> , 2007, 581, 665-678.	2.9	11

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55	Inhibition of KATPchannels in the rat tail artery by neurally released noradrenaline acting on postjunctional β_2 -adrenoceptors. <i>Journal of Physiology</i> , 2007, 581, 757-765.	2.9	10
56	Spinal cord injury increases the reactivity of rat tail artery to angiotensin II. <i>Frontiers in Neuroscience</i> , 2015, 8, 435.	2.8	10
57	Changes in sympathetic neurovascular function following spinal cord injury. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2018, 209, 25-36.	2.8	10
58	Early urinary tract infection after spinal cord injury: a retrospective inpatient cohort study. <i>Spinal Cord</i> , 2020, 58, 25-34.	1.9	10
59	Characterization of $\text{Na}^{\text{V}}1.6$ -mediated Na^+ currents in smooth muscle cells isolated from mouse vas deferens. <i>Journal of Cellular Physiology</i> , 2010, 223, 234-243.	4.1	9
60	Optimal Bladder Management Following Spinal Cord Injury: Evidence, Practice and a Cooperative Approach Driving Future Directions in Australia. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 2118-2121.	0.9	9
61	Effects of A_1 -adenosine receptor antagonists on purinergic transmission in the guinea-pig vas deferens in vitro. <i>British Journal of Pharmacology</i> , 1999, 126, 1761-1768.	5.4	8
62	Slow and incomplete sympathetic reinnervation of rat tail artery restores the amplitude of nerve-evoked contractions provided a perivascular plexus is present. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H541-H554.	3.2	8
63	Streptozotocin-induced diabetes differentially affects sympathetic innervation and control of plantar metatarsal and mesenteric arteries in the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2013, 304, H215-H228.	3.2	7
64	Analysis of the ghrelin receptor-independent vascular actions of ulimorelin. <i>European Journal of Pharmacology</i> , 2015, 752, 34-39.	3.5	7
65	Effects of modulating Ca^{2+} entry and activating prejunctional receptors on facilitation of excitatory junction potentials in the guinea-pig vas deferens in vitro. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001, 363, 515-525.	3.0	6
66	Nerve-Evoked Constriction of Rat Tail Veins Is Potentiated and Venous Diameter Is Reduced after Chronic Spinal Cord Transection. <i>Journal of Neurotrauma</i> , 2011, 28, 821-829.	3.4	5
67	Removal of half the sympathetic innervation does not reduce vasoconstrictor responses in rat tail artery. <i>Journal of Physiology</i> , 2013, 591, 2867-2884.	2.9	4
68	Electrophysiology of Corneal Cold Receptor Nerve Terminals. <i>Advances in Experimental Medicine and Biology</i> , 2002, 508, 19-23.	1.6	4
69	Potentiation by neostigmine of responses to vagal nerve stimulation in the sinus venosus of the toad. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2000, 82, 109-114.	2.8	3
70	Increased peripherin in sympathetic axons innervating plantar metatarsal arteries in STZ-induced type I diabetic rats. <i>Frontiers in Neuroscience</i> , 2014, 8, 99.	2.8	3
71	Sea anemone α -stingatin isolates IB4 -negative sensory neurones. <i>Journal of Physiology</i> , 2010, 588, 11-11.	2.9	2
72	Modified Cytoplasmic Ca^{2+} Sequestration Contributes to Spinal Cord Injury-Induced Augmentation of Nerve-Evoked Contractions in the Rat Tail Artery. <i>PLoS ONE</i> , 2014, 9, e111804.	2.5	2

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73	Two mechanisms underlie the slow noradrenergic depolarization in the rat tail artery in vitro. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011, 159, 45-50.	2.8	1
74	Hydrogen peroxide increases nerve-evoked contractions in mouse tail artery by an endothelium-dependent mechanism. <i>European Journal of Pharmacology</i> , 2013, 698, 362-369.	3.5	1
75	Angiotensin II increases nerve-evoked contractions in mouse tail artery by a T-type Ca ²⁺ channel-dependent mechanism. <i>European Journal of Pharmacology</i> , 2015, 761, 11-18.	3.5	1
76	Evidence for specialized junctional receptors for adrenaline and acetylcholine in the sinus venosus of the toad. <i>Journal of the Autonomic Nervous System</i> , 1991, 33, 177-178.	1.9	0
77	HIGHLIGHTS IN BASIC AUTONOMIC NEUROSCIENCES. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2009, 150, 1-4.	2.8	0
78	Reply to Letter re: "Optimal Bladder Management Following Spinal Cord Injury: Evidence, Practice and a Cooperative Approach Driving Future Directions in Australia". <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 1793-1794.	0.9	0