

Anthony E Pickering

List of Publications by Citations

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105
papers

3,040
citations

34
h-index

52
g-index

140
ext. papers

3,839
ext. citations

4.9
avg, IF

5.45
L-index

#	Paper	IF	Citations
105	The yin and yang of cardiac autonomic control: vago-sympathetic interactions revisited. <i>Brain Research Reviews</i> , 2005 , 49, 555-65		219
104	Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity. <i>Journal of Physiology</i> , 2008 , 586, 3253-65	3.9	198
103	Amplified respiratory-sympathetic coupling in the spontaneously hypertensive rat: does it contribute to hypertension?. <i>Journal of Physiology</i> , 2009 , 587, 597-610	3.9	162
102	Double-blind, placebo-controlled analgesic study of ibuprofen or rofecoxib in combination with paracetamol for tonsillectomy in children. <i>British Journal of Anaesthesia</i> , 2002 , 88, 72-7	5.4	133
101	Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats. <i>ELife</i> , 2017 , 6,	8.9	99
100	Optoactivation of locus ceruleus neurons evokes bidirectional changes in thermal nociception in rats. <i>Journal of Neuroscience</i> , 2014 , 34, 4148-60	6.6	91
99	The nucleus of the solitary tract: an integrating station for nociceptive and cardiorespiratory afferents. <i>Experimental Physiology</i> , 2002 , 87, 259-66	2.4	86
98	A quantitative evaluation of aerosol generation during tracheal intubation and extubation. <i>Anaesthesia</i> , 2021 , 76, 174-181	6.6	77
97	TRPA1-expressing primary afferents synapse with a morphologically identified subclass of substantia gelatinosa neurons in the adult rat spinal cord. <i>European Journal of Neuroscience</i> , 2010 , 31, 1960-73	3.5	72
96	Electrotonic coupling between rat sympathetic preganglionic neurones in vitro. <i>Journal of Physiology</i> , 1996 , 495 (Pt 2), 491-502	3.9	71
95	A spinal vasopressinergic mechanism mediates hyperosmolality-induced sympathoexcitation. <i>Journal of Physiology</i> , 2006 , 576, 569-83	3.9	67
94	Endogenous analgesic action of the pontospinal noradrenergic system spatially restricts and temporally delays the progression of neuropathic pain following tibial nerve injury. <i>Pain</i> , 2013 , 154, 1680-1690	8.5	65
93	A decerebrate, artificially-perfused in situ preparation of rat: utility for the study of autonomic and nociceptive processing. <i>Journal of Neuroscience Methods</i> , 2006 , 155, 260-71	3	58
92	5-Hydroxytryptamine evokes depolarizations and membrane potential oscillations in rat sympathetic preganglionic neurones. <i>Journal of Physiology</i> , 1994 , 480 (Pt 1), 109-21	3.9	57
91	Retrograde adenoviral vector targeting of nociresponsive pontospinal noradrenergic neurons in the rat in vivo. <i>Journal of Comparative Neurology</i> , 2009 , 512, 141-57	3.4	55
90	Redefining Noradrenergic Neuromodulation of Behavior: Impacts of a Modular Locus Coeruleus Architecture. <i>Journal of Neuroscience</i> , 2019 , 39, 8239-8249	6.6	52
89	Nociception attenuates parasympathetic but not sympathetic baroreflex via NK1 receptors in the rat nucleus tractus solitarii. <i>Journal of Physiology</i> , 2003 , 551, 589-99	3.9	52

88	Targeting brain stem centers of cardiovascular control using adenoviral vectors: impact of promoters on transgene expression. <i>Physiological Genomics</i> , 2005 , 20, 165-72	3.6	51
87	Whole-cell recordings from sympathetic preganglionic neurons in rat spinal cord slices. <i>Neuroscience Letters</i> , 1991 , 130, 237-42	3.3	51
86	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. <i>Journal of Physiology</i> , 2011 , 589, 5801-18	3.9	49
85	Differential baroreflex control of sympathetic drive by angiotensin II in the nucleus tractus solitarii. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 293, R1954-60	3.2	48
84	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. <i>Journal of Physiology</i> , 2016 , 594, 7249-7265	3.9	47
83	Retrograde optogenetic characterization of the pontospinal module of the locus coeruleus with a canine adenoviral vector. <i>Brain Research</i> , 2016 , 1641, 274-90	3.7	46
82	Deep brain stimulation relieves refractory hypertension. <i>Neurology</i> , 2011 , 76, 405-7	6.5	44
81	Reflexly evoked coactivation of cardiac vagal and sympathetic motor outflows: observations and functional implications. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006 , 33, 1245-50	3	44
80	Locus coeruleus norepinephrine activity mediates sensory-evoked awakenings from sleep. <i>Science Advances</i> , 2020 , 6, eaaz4232	14.3	40
79	Hierarchical recruitment of the sympathetic and parasympathetic limbs of the baroreflex in normotensive and spontaneously hypertensive rats. <i>Journal of Physiology</i> , 2007 , 579, 473-86	3.9	40
78	Abnormal Locus Coeruleus Sleep Activity Alters Sleep Signatures of Memory Consolidation and Impairs Place Cell Stability and Spatial Memory. <i>Current Biology</i> , 2018 , 28, 3599-3609.e4	6.3	40
77	Locus Coeruleus tracking of prediction errors optimises cognitive flexibility: An Active Inference model. <i>PLoS Computational Biology</i> , 2019 , 15, e1006267	5	39
76	A functional analysis of the influence of β -adrenoceptors on the rat micturition cycle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013 , 347, 506-15	4.7	38
75	Is augmented central respiratory-sympathetic coupling involved in the generation of hypertension?. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 174, 89-97	2.8	37
74	Resolving the Brainstem Contributions to Attentional Analgesia. <i>Journal of Neuroscience</i> , 2017 , 37, 22796-22801	6.2	36
73	Effect of combined spinal-epidural ambulatory labor analgesia on balance. <i>Anesthesiology</i> , 1999 , 91, 436-41	4.1	36
72	The potency of different serotonergic agonists in counteracting opioid evoked cardiorespiratory disturbances. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2611-23	5.8	34
71	Retrograde viral vector-mediated inhibition of pontospinal noradrenergic neurons causes hyperalgesia in rats. <i>Journal of Neuroscience</i> , 2009 , 29, 12855-64	6.6	33

70	Deep brain stimulation of the periaqueductal gray releases endogenous opioids in humans. <i>NeuroImage</i> , 2017 , 146, 833-842	7.9	32
69	In vivo patch-clamp recording from locus coeruleus neurones in the rat brainstem. <i>Journal of Physiology</i> , 2012 , 590, 2225-31	3.9	28
68	Dominant role of aortic baroreceptors in the cardiac baroreflex of the rat in situ. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008 , 142, 32-9	2.4	28
67	Inhibition of sympathetic preganglionic neurons by spinal glycinergic interneurons. <i>Neuroscience</i> , 1994 , 62, 205-16	3.9	28
66	Regulation of food intake by astrocytes in the brainstem dorsal vagal complex. <i>Glia</i> , 2020 , 68, 1241-1254		28
65	Intrathecal reboxetine suppresses evoked and ongoing neuropathic pain behaviours by restoring spinal noradrenergic inhibitory tone. <i>Pain</i> , 2015 , 156, 328-334	8	27
64	Analgesia in conjunction with normalisation of thermal sensation following deep brain stimulation for central post-stroke pain. <i>Pain</i> , 2009 , 147, 299-304	8	27
63	Excitation of sympathetic preganglionic neurons via metabotropic excitatory amino acid receptors. <i>Neuroscience</i> , 1995 , 68, 1247-61	3.9	24
62	Aerosol generating procedures: are they of relevance for transmission of SARS-CoV-2?. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 687-689	35.1	24
61	Activation of Brainstem Pro-opiomelanocortin Neurons Produces Opioidergic Analgesia, Bradycardia and Bradypnoea. <i>PLoS ONE</i> , 2016 , 11, e0153187	3.7	22
60	Assessing Long-term Neurodevelopmental Outcome Following General Anesthesia in Early Childhood: Challenges and Opportunities. <i>Anesthesia and Analgesia</i> , 2019 , 128, 681-694	3.9	22
59	An exploration of the control of micturition using a novel in situ arterially perfused rat preparation. <i>Frontiers in Neuroscience</i> , 2011 , 5, 62	5.1	20
58	Muro-Neuro-Urodynamics; a Review of the Functional Assessment of Mouse Lower Urinary Tract Function. <i>Frontiers in Physiology</i> , 2017 , 8, 49	4.6	19
57	Tactile allodynia in patients with postherpetic neuralgia: lack of change in skin blood flow upon dynamic stimulation. <i>Pain</i> , 2005 , 117, 154-61	8	19
56	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. <i>Journal of Physiology</i> , 2019 , 597, 3407-3423	3.9	17
55	Investigation of systemic bupivacaine toxicity using the in situ perfused working heart-brainstem preparation of the rat. <i>Anesthesiology</i> , 2002 , 97, 1550-6	4.3	15
54	A quantitative evaluation of aerosol generation during tracheal intubation and extubation: a reply. <i>Anaesthesia</i> , 2021 , 76 Suppl 3, 16-18	6.6	15
53	Mapping the cellular electrophysiology of rat sympathetic preganglionic neurones to their roles in cardiorespiratory reflex integration: a whole cell recording study in situ. <i>Journal of Physiology</i> , 2014 , 592, 2215-36	3.9	14

52	Homotopic stimulation can reduce the area of allodynia in patients with neuropathic pain. <i>European Journal of Pain</i> , 2009 , 13, 942-8	3.7	14
51	Disinhibition of the cardiac limb of the arterial baroreflex in rat: a role for metabotropic glutamate receptors in the nucleus tractus solitarii. <i>Journal of Physiology</i> , 2006 , 575, 727-38	3.9	14
50	Influence of age on respiratory modulation of muscle sympathetic nerve activity, blood pressure and baroreflex function in humans. <i>Experimental Physiology</i> , 2015 , 100, 1039-51	2.4	13
49	Single Electrode Deep Brain Stimulation with Dual Targeting at Dual Frequency for the Treatment of Chronic Pain: A Case Series and Review of the Literature. <i>Brain Sciences</i> , 2017 , 7,	3.4	12
48	Behavioral correlates of activity of optogenetically identified locus coeruleus noradrenergic neurons in rats performing T-maze tasks. <i>Scientific Reports</i> , 2019 , 9, 1361	4.9	11
47	Identification of the source events for aerosol generation during oesophago-gastro-duodenoscopy. <i>Gut</i> , 2021 ,	19.2	11
46	Hedonic drinking engages a supraspinal inhibition of thermal nociception in adult rats. <i>Pain</i> , 2019 , 160, 1059-1069	8	11
45	Parallel cortical-brainstem pathways to attentional analgesia. <i>NeuroImage</i> , 2021 , 226, 117548	7.9	11
44	Influence of sildenafil on the purinergic components of nerve-mediated and urothelial ATP release from the bladder of normal and spinal cord injured mice. <i>British Journal of Pharmacology</i> , 2019 , 176, 2227-2237 ¹⁰	8.6	10
43	Noradrenaline Release from Locus Coeruleus Terminals in the Hippocampus Enhances Excitation-Spike Coupling in CA1 Pyramidal Neurons Via β Adrenoceptors. <i>Cerebral Cortex</i> , 2020 , 30, 6135-6151	5.1	10
42	Characterising the Analgesic Effect of Different Targets for Deep Brain Stimulation in Trigeminal Anaesthesia Dolorosa. <i>Stereotactic and Functional Neurosurgery</i> , 2016 , 94, 174-81	1.6	10
41	Modelling the vascular response to sympathetic postganglionic nerve activity. <i>Journal of Theoretical Biology</i> , 2015 , 371, 102-16	2.3	10
40	Prolonged ketamine infusion as a therapy for complex regional pain syndrome: synergism with antagonism?. <i>British Journal of Clinical Pharmacology</i> , 2014 , 77, 233-8	3.8	10
39	Probabilistic, spinally-gated control of bladder pressure and autonomous micturition by Barrington's nucleus CRH neurons. <i>ELife</i> , 2020 , 9,	8.9	10
38	Anatomically and functionally distinct locus coeruleus efferents mediate opposing effects on anxiety-like behavior. <i>Neurobiology of Stress</i> , 2020 , 13, 100284	7.6	8
37	Increased intrinsic excitability of muscle vasoconstrictor preganglionic neurons may contribute to the elevated sympathetic activity in hypertensive rats. <i>Journal of Neurophysiology</i> , 2014 , 112, 2756-78	3.2	8
36	Acceptability of a primary care-based opioid and pain review service: a mixed-methods evaluation in England. <i>British Journal of General Practice</i> , 2020 , 70, e120-e129	1.6	7
35	Evaluation of a primary care-based opioid and pain review service: a mixed-methods evaluation in two GP practices in England. <i>British Journal of General Practice</i> , 2020 , 70, e111-e119	1.6	7

34	Characterization of mouse neuro-urological dynamics in a novel decerebrate arterially perfused mouse (DAPM) preparation. <i>Neurourology and Urodynamics</i> , 2018 , 37, 1302-1312	2.3	6
33	Ultrasound-guided, open-source microneurography: Approaches to improve recordings from peripheral nerves in man. <i>Clinical Neurophysiology</i> , 2018 , 129, 2475-2481	4.3	6
32	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , 2020 , 5, 43	4.8	6
31	Sildenafil, a phosphodiesterase type 5 inhibitor, augments sphincter bursting and bladder afferent activity to enhance storage function and voiding efficiency in mice. <i>BJU International</i> , 2019 , 124, 163-173 ^{5.6}	5.6	6
30	Loss of cortical control over the descending pain modulatory system determines the development of the neuropathic pain state in rats. <i>ELife</i> , 2021 , 10,	8.9	6
29	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , 2021 , 76, 1577-1584	6.6	6
28	Platelet dysfunction after Out of Hospital Cardiac Arrest. Results from POHCAR: A prospective observational, cohort study. <i>Resuscitation</i> , 2019 , 136, 105-111	4	5
27	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , 2020 , 5, 43	4.8	4
26	Locus Coeruleus tracking of prediction errors optimises cognitive flexibility: an Active Inference model		4
25	Locus-coeruleus norepinephrine activity gates sensory-evoked awakenings from sleep		4
24	Modulation of Bladder Wall Micromotions Alters Intravesical Pressure Activity in the Isolated Bladder. <i>Frontiers in Physiology</i> , 2018 , 9, 1937	4.6	3
23	The effects of xenon on sevoflurane anesthesia-induced acidosis and brain cell apoptosis in immature rats. <i>Paediatric Anaesthesia</i> , 2021 , 31, 372-374	1.8	3
22	Simultaneous brain, brainstem and spinal cord pharmacological-fMRI reveals involvement of an endogenous opioid network in attentional analgesia.. <i>ELife</i> , 2022 , 11,	8.9	2
21	Author response: Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats 2017 ,		2
20	Quantitative evaluation of aerosol generation during manual facemask ventilation. <i>Anaesthesia</i> , 2022 , 77, 22-27	6.6	2
19	144 Does Home-Based, Slow Deep Breathing Training Reduce Central Sympathetic Outflow and Enhance Baroreflex Sensitivity in Primary Hypertension?. <i>Heart</i> , 2015 , 101, A83.1-A83	5.1	1
18	Cross-talk Between Body Systems 2012 , 151-155		1
17	Evaluating the association of TRPA1 gene polymorphisms with pain sensitivity: a protocol for an adaptive recall by genotype study.. <i>BMC Medical Genomics</i> , 2022 , 15, 9	3.7	1

16	DISTINCT BRAINSTEM ORIGINS OF CARDIAC VAGAL TONE AND RESPIRATORY SINUS ARRHYTHMIA. <i>FASEB Journal</i> , 2015 , 29, 1056.3	0.9	1
15	Increased intrinsic excitability of muscle vasoconstrictor sympathetic preganglionic neurones in neonatal spontaneously hypertensive rats. <i>FASEB Journal</i> , 2010 , 24, 809.13	0.9	1
14	Altered respiratory related bursting of muscle sympathetic nerve activity in humans with essential hypertension. <i>FASEB Journal</i> , 2011 , 25, 1076.2	0.9	1
13	Central pain modulatory mechanisms of attentional analgesia are preserved in fibromyalgia. <i>Pain</i> , 2021 ,	8	1
12	The safety of anaesthetists and intensivists during the first COVID-19 surge supports extension of use of airborne protection PPE to ward staff. <i>Clinical Medicine</i> , 2021 , 21, e137-e139	1.9	1
11	Advancing respiratory-cardiovascular physiology with the working heart-brainstem preparation over 25 years.. <i>Journal of Physiology</i> , 2022 ,	3.9	1
10	Multisite silicon probes enable simultaneous recording of spontaneous and evoked activity in multiple isolated C-fibres in rat saphenous nerve. <i>Journal of Neuroscience Methods</i> , 2021 , 368, 109419	3	0
9	Turn it off and on again: characteristics and control of torpor.. <i>Wellcome Open Research</i> , 2021 , 6, 313	4.8	0
8	Airway procedures: the importance of distinguishing between high risk and aerosol generation. <i>Anaesthesia</i> , 2021 , 76 Suppl 3, 28-29	6.6	0
7	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , 2021 ,	6.6	0
6	Turn it off and on again: characteristics and control of torpor. <i>Wellcome Open Research</i> , 2021 , 6, 313	4.8	0
5	Increased sympathetic activity in rats submitted to chronic intermittent hypoxia (CIH) is coupled to enhanced late expiratory activity. <i>FASEB Journal</i> , 2008 , 22, 739.1	0.9	
4	Device-guided slow deep breathing in essential hypertension: is cardiac or sympathetic baroreflex sensitivity altered? (1132.7). <i>FASEB Journal</i> , 2014 , 28, 1132.7	0.9	
3	Effect of device guided slow deep breathing on central sympathetic outflow and arterial baroreflex sensitivity in young healthy individuals (1170.4). <i>FASEB Journal</i> , 2014 , 28, 1170.4	0.9	
2	Gap junction coupling-mediated membrane potential oscillations drive activity in cutaneous but not muscle vasoconstrictor sympathetic preganglionic neurones in situ. <i>FASEB Journal</i> , 2009 , 23, 611.9	0.9	
1	Influence of age on respiratory modulation of muscle sympathetic nerve activity and blood pressure in humans. <i>FASEB Journal</i> , 2013 , 27, 1118.23	0.9	