

# Anthony E Pickering

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Simultaneous brain, brainstem and spinal cord pharmacological-fMRI reveals involvement of an endogenous opioid network in attentional analgesia.. <i>ELife</i> , <b>2022</b> , 11,	8.9	2
104	Evaluating the association of TRPA1 gene polymorphisms with pain sensitivity: a protocol for an adaptive recall by genotype study.. <i>BMC Medical Genomics</i> , <b>2022</b> , 15, 9	3.7	1
103	Quantitative evaluation of aerosol generation during manual facemask ventilation. <i>Anaesthesia</i> , <b>2022</b> , 77, 22-27	6.6	2
102	Advancing respiratory-cardiovascular physiology with the working heart-brainstem preparation over 25 years.. <i>Journal of Physiology</i> , <b>2022</b> ,	3.9	1
101	A quantitative evaluation of aerosol generation during tracheal intubation and extubation: a reply. <i>Anaesthesia</i> , <b>2021</b> , 76 Suppl 3, 16-18	6.6	15
100	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> , <b>2021</b> , 368, 109419	3	0
99	Turn it off and on again: characteristics and control of torpor.. <i>Wellcome Open Research</i> , <b>2021</b> , 6, 313	4.8	0
98	Aerosol generating procedures: are they of relevance for transmission of SARS-CoV-2?. <i>Lancet Respiratory Medicine</i> , <b>2021</b> , 9, 687-689	35.1	24
97	Central pain modulatory mechanisms of attentional analgesia are preserved in fibromyalgia. <i>Pain</i> , <b>2021</b> ,	8	1
96	Identification of the source events for aerosol generation during oesophago-gastro-duodenoscopy. <i>Gut</i> , <b>2021</b> ,	19.2	11
95	A quantitative evaluation of aerosol generation during tracheal intubation and extubation. <i>Anaesthesia</i> , <b>2021</b> , 76, 174-181	6.6	77
94	Parallel cortical-brainstem pathways to attentional analgesia. <i>NeuroImage</i> , <b>2021</b> , 226, 117548	7.9	11
93	The effects of xenon on sevoflurane anesthesia-induced acidosis and brain cell apoptosis in immature rats. <i>Paediatric Anaesthesia</i> , <b>2021</b> , 31, 372-374	1.8	3
92	Airway procedures: the importance of distinguishing between high risk and aerosol generation. <i>Anaesthesia</i> , <b>2021</b> , 76 Suppl 3, 28-29	6.6	0
91	Loss of cortical control over the descending pain modulatory system determines the development of the neuropathic pain state in rats. <i>ELife</i> , <b>2021</b> , 10,	8.9	6
90	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , <b>2021</b> , 76, 1577-1584	6.6	6
89	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , <b>2021</b> ,	6.6	0

88	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> , <b>2021</b> , 21, e137-e139	1.9	1
87	Anatomically and functionally distinct locus coeruleus efferents mediate opposing effects on anxiety-like behavior. <i>Neurobiology of Stress</i> , <b>2020</b> , 13, 100284	7.6	8
86	Noradrenaline Release from Locus Coeruleus Terminals in the Hippocampus Enhances Excitation-Spike Coupling in CA1 Pyramidal Neurons Via $\beta$ Adrenoceptors. <i>Cerebral Cortex</i> , <b>2020</b> , 30, 6135-6151	5.1	10
85	Locus coeruleus norepinephrine activity mediates sensory-evoked awakenings from sleep. <i>Science Advances</i> , <b>2020</b> , 6, eaaz4232	14.3	40
84	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , <b>2020</b> , 5, 43	4.8	6
83	Probabilistic, spinally-gated control of bladder pressure and autonomous micturition by Barrington's nucleus CRH neurons. <i>ELife</i> , <b>2020</b> , 9,	8.9	10
82	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , <b>2020</b> , 5, 43	4.8	4
81	Regulation of food intake by astrocytes in the brainstem dorsal vagal complex. <i>Glia</i> , <b>2020</b> , 68, 1241-1254		28
80	Acceptability of a primary care-based opioid and pain review service: a mixed-methods evaluation in England. <i>British Journal of General Practice</i> , <b>2020</b> , 70, e120-e129	1.6	7
79	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> , <b>2020</b> , 70, e111-e119	1.6	7
78	Platelet dysfunction after Out of Hospital Cardiac Arrest. Results from POHCAR: A prospective observational, cohort study. <i>Resuscitation</i> , <b>2019</b> , 136, 105-111	4	5
77	Behavioral correlates of activity of optogenetically identified locus coeruleus noradrenergic neurons in rats performing T-maze tasks. <i>Scientific Reports</i> , <b>2019</b> , 9, 1361	4.9	11
76	On the presence and functional significance of sympathetic premotor neurons with collateralized spinal axons in the rat. <i>Journal of Physiology</i> , <b>2019</b> , 597, 3407-3423	3.9	17
75	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> , <b>2019</b> , 176, 2227-2237	8.6	10
74	Redefining Noradrenergic Neuromodulation of Behavior: Impacts of a Modular Locus Coeruleus Architecture. <i>Journal of Neuroscience</i> , <b>2019</b> , 39, 8239-8249	6.6	52
73	Assessing Long-term Neurodevelopmental Outcome Following General Anesthesia in Early Childhood: Challenges and Opportunities. <i>Anesthesia and Analgesia</i> , <b>2019</b> , 128, 681-694	3.9	22
72	Hedonic drinking engages a supraspinal inhibition of thermal nociception in adult rats. <i>Pain</i> , <b>2019</b> , 160, 1059-1069	8	11
71	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> , <b>2019</b> , 124, 163-173	5.6	6

70	Locus Coeruleus tracking of prediction errors optimises cognitive flexibility: An Active Inference model. <i>PLoS Computational Biology</i> , <b>2019</b> , 15, e1006267	5	39
69	Characterization of mouse neuro-urolological dynamics in a novel decerebrate arterially perfused mouse (DAPM) preparation. <i>Neurourology and Urodynamics</i> , <b>2018</b> , 37, 1302-1312	2.3	6
68	Ultrasound-guided, open-source microneurography: Approaches to improve recordings from peripheral nerves in man. <i>Clinical Neurophysiology</i> , <b>2018</b> , 129, 2475-2481	4.3	6
67	Modulation of Bladder Wall Micromotions Alters Intravesical Pressure Activity in the Isolated Bladder. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1937	4.6	3
66	Abnormal Locus Coeruleus Sleep Activity Alters Sleep Signatures of Memory Consolidation and Impairs Place Cell Stability and Spatial Memory. <i>Current Biology</i> , <b>2018</b> , 28, 3599-3609.e4	6.3	40
65	Resolving the Brainstem Contributions to Attentional Analgesia. <i>Journal of Neuroscience</i> , <b>2017</b> , 37, 22796-2291	36	
64	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> , <b>2017</b> , 7,	3.4	12
63	Deep brain stimulation of the periaqueductal gray releases endogenous opioids in humans. <i>NeuroImage</i> , <b>2017</b> , 146, 833-842	7.9	32
62	Muro-Neuro-Urodynamics; a Review of the Functional Assessment of Mouse Lower Urinary Tract Function. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 49	4.6	19
61	Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats. <i>ELife</i> , <b>2017</b> , 6,	8.9	99
60	Author response: Functional dichotomy in spinal- vs prefrontal-projecting locus coeruleus modules splits descending noradrenergic analgesia from ascending aversion and anxiety in rats <b>2017</b> ,		2
59	Characterising the Analgesic Effect of Different Targets for Deep Brain Stimulation in Trigeminal Anaesthesia Dolorosa. <i>Stereotactic and Functional Neurosurgery</i> , <b>2016</b> , 94, 174-81	1.6	10
58	Retrograde optogenetic characterization of the pontospinal module of the locus coeruleus with a canine adenoviral vector. <i>Brain Research</i> , <b>2016</b> , 1641, 274-90	3.7	46
57	Activation of Brainstem Pro-opiomelanocortin Neurons Produces Opioidergic Analgesia, Bradycardia and Bradypnoea. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153187	3.7	22
56	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. <i>Journal of Physiology</i> , <b>2016</b> , 594, 7249-7265	3.9	47
55	144 Does Home-Based, Slow Deep Breathing Training Reduce Central Sympathetic Outflow and Enhance Baroreflex Sensitivity in Primary Hypertension?. <i>Heart</i> , <b>2015</b> , 101, A83.1-A83	5.1	1
54	Influence of age on respiratory modulation of muscle sympathetic nerve activity, blood pressure and baroreflex function in humans. <i>Experimental Physiology</i> , <b>2015</b> , 100, 1039-51	2.4	13
53	Intrathecal reboxetine suppresses evoked and ongoing neuropathic pain behaviours by restoring spinal noradrenergic inhibitory tone. <i>Pain</i> , <b>2015</b> , 156, 328-334	8	27

52	Modelling the vascular response to sympathetic postganglionic nerve activity. <i>Journal of Theoretical Biology</i> , <b>2015</b> , 371, 102-16	2.3	10
51	DISTINCT BRAINSTEM ORIGINS OF CARDIAC VAGAL TONE AND RESPIRATORY SINUS ARRHYTHMIA. <i>FASEB Journal</i> , <b>2015</b> , 29, 1056.3	0.9	1
50	Optoactivation of locus ceruleus neurons evokes bidirectional changes in thermal nociception in rats. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 4148-60	6.6	91
49	Increased intrinsic excitability of muscle vasoconstrictor preganglionic neurons may contribute to the elevated sympathetic activity in hypertensive rats. <i>Journal of Neurophysiology</i> , <b>2014</b> , 112, 2756-78	3.2	8
48	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> , <b>2014</b> , 592, 2215-36	3.9	14
47	Prolonged ketamine infusion as a therapy for complex regional pain syndrome: synergism with antagonism?. <i>British Journal of Clinical Pharmacology</i> , <b>2014</b> , 77, 233-8	3.8	10
46	Device-guided slow deep breathing in essential hypertension: is cardiac or sympathetic baroreflex sensitivity altered? (1132.7). <i>FASEB Journal</i> , <b>2014</b> , 28, 1132.7	0.9	
45	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> , <b>2014</b> , 28, 1170.4	0.9	
44	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> , <b>2013</b> , 154, 1680-1690 <sup>8</sup> <sub>65</sub>		
43	A functional analysis of the influence of B-adrenoceptors on the rat micturition cycle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2013</b> , 347, 506-15	4.7	38
42	Influence of age on respiratory modulation of muscle sympathetic nerve activity and blood pressure in humans. <i>FASEB Journal</i> , <b>2013</b> , 27, 1118.23	0.9	
41	In vivo patch-clamp recording from locus coeruleus neurones in the rat brainstem. <i>Journal of Physiology</i> , <b>2012</b> , 590, 2225-31	3.9	28
40	Cross-talk Between Body Systems <b>2012</b> , 151-155		1
39	An exploration of the control of micturition using a novel in situ arterially perfused rat preparation. <i>Frontiers in Neuroscience</i> , <b>2011</b> , 5, 62	5.1	20
38	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. <i>Journal of Physiology</i> , <b>2011</b> , 589, 5801-18	3.9	49
37	Deep brain stimulation relieves refractory hypertension. <i>Neurology</i> , <b>2011</b> , 76, 405-7	6.5	44
36	Altered respiratory related bursting of muscle sympathetic nerve activity in humans with essential hypertension. <i>FASEB Journal</i> , <b>2011</b> , 25, 1076.2	0.9	1
35	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> , <b>2010</b> , 31, 1960-73	3.5	72

34	Is augmented central respiratory-sympathetic coupling involved in the generation of hypertension?. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 174, 89-97	2.8	37
33	Increased intrinsic excitability of muscle vasoconstrictor sympathetic preganglionic neurones in neonatal spontaneously hypertensive rats. <i>FASEB Journal</i> , <b>2010</b> , 24, 809.13	0.9	1
32	The potency of different serotonergic agonists in counteracting opioid evoked cardiorespiratory disturbances. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2009</b> , 364, 2611-23	5.8	34
31	Retrograde viral vector-mediated inhibition of pontospinal noradrenergic neurons causes hyperalgesia in rats. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 12855-64	6.6	33
30	Analgesia in conjunction with normalisation of thermal sensation following deep brain stimulation for central post-stroke pain. <i>Pain</i> , <b>2009</b> , 147, 299-304	8	27
29	Retrograde adenoviral vector targeting of nociceptive pontospinal noradrenergic neurons in the rat in vivo. <i>Journal of Comparative Neurology</i> , <b>2009</b> , 512, 141-57	3.4	55
28	Amplified respiratory-sympathetic coupling in the spontaneously hypertensive rat: does it contribute to hypertension?. <i>Journal of Physiology</i> , <b>2009</b> , 587, 597-610	3.9	162
27	Homotopic stimulation can reduce the area of allodynia in patients with neuropathic pain. <i>European Journal of Pain</i> , <b>2009</b> , 13, 942-8	3.7	14
26	Gap junction coupling-mediated membrane potential oscillations drive activity in cutaneous but not muscle vasoconstrictor sympathetic preganglionic neurones in situ. <i>FASEB Journal</i> , <b>2009</b> , 23, 611.9	0.9	
25	Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity. <i>Journal of Physiology</i> , <b>2008</b> , 586, 3253-65	3.9	198
24	Dominant role of aortic baroreceptors in the cardiac baroreflex of the rat in situ. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2008</b> , 142, 32-9	2.4	28
23	Increased sympathetic activity in rats submitted to chronic intermittent hypoxia (CIH) is coupled to enhanced late expiratory activity. <i>FASEB Journal</i> , <b>2008</b> , 22, 739.1	0.9	
22	Hierarchical recruitment of the sympathetic and parasympathetic limbs of the baroreflex in normotensive and spontaneously hypertensive rats. <i>Journal of Physiology</i> , <b>2007</b> , 579, 473-86	3.9	40
21	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> , <b>2007</b> , 293, R1954-60 <sup>3.2</sup>		48
20	A decerebrate, artificially-perfused in situ preparation of rat: utility for the study of autonomic and nociceptive processing. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 155, 260-71	3	58
19	Reflexly evoked coactivation of cardiac vagal and sympathetic motor outflows: observations and functional implications. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2006</b> , 33, 1245-50	3	44
18	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> , <b>2006</b> , 575, 727-38	3.9	14
17	A spinal vasopressinergic mechanism mediates hyperosmolality-induced sympathoexcitation. <i>Journal of Physiology</i> , <b>2006</b> , 576, 569-83	3.9	67

16	The yin and yang of cardiac autonomic control: vago-sympathetic interactions revisited. <i>Brain Research Reviews</i> , <b>2005</b> , 49, 555-65		219
15	Tactile allodynia in patients with postherpetic neuralgia: lack of change in skin blood flow upon dynamic stimulation. <i>Pain</i> , <b>2005</b> , 117, 154-61	8	19
14	Targeting brain stem centers of cardiovascular control using adenoviral vectors: impact of promoters on transgene expression. <i>Physiological Genomics</i> , <b>2005</b> , 20, 165-72	3.6	51
13	Nociception attenuates parasympathetic but not sympathetic baroreflex via NK1 receptors in the rat nucleus tractus solitarii. <i>Journal of Physiology</i> , <b>2003</b> , 551, 589-99	3.9	52
12	The nucleus of the solitary tract: an integrating station for nociceptive and cardiorespiratory afferents. <i>Experimental Physiology</i> , <b>2002</b> , 87, 259-66	2.4	86
11	Double-blind, placebo-controlled analgesic study of ibuprofen or rofecoxib in combination with paracetamol for tonsillectomy in children. <i>British Journal of Anaesthesia</i> , <b>2002</b> , 88, 72-7	5.4	133
10	Investigation of systemic bupivacaine toxicity using the in situ perfused working heart-brainstem preparation of the rat. <i>Anesthesiology</i> , <b>2002</b> , 97, 1550-6	4.3	15
9	Effect of combined spinal-epidural ambulatory labor analgesia on balance. <i>Anesthesiology</i> , <b>1999</b> , 91, 436-41	4.1	36
8	Electrotonic coupling between rat sympathetic preganglionic neurones in vitro. <i>Journal of Physiology</i> , <b>1996</b> , 495 ( Pt 2), 491-502	3.9	71
7	Excitation of sympathetic preganglionic neurons via metabotropic excitatory amino acid receptors. <i>Neuroscience</i> , <b>1995</b> , 68, 1247-61	3.9	24
6	5-Hydroxytryptamine evokes depolarizations and membrane potential oscillations in rat sympathetic preganglionic neurones. <i>Journal of Physiology</i> , <b>1994</b> , 480 ( Pt 1), 109-21	3.9	57
5	Inhibition of sympathetic preganglionic neurons by spinal glycinergic interneurons. <i>Neuroscience</i> , <b>1994</b> , 62, 205-16	3.9	28
4	Whole-cell recordings from sympathetic preganglionic neurons in rat spinal cord slices. <i>Neuroscience Letters</i> , <b>1991</b> , 130, 237-42	3.3	51
3	Locus Coeruleus tracking of prediction errors optimises cognitive flexibility: an Active Inference model		4
2	Locus-coeruleus norepinephrine activity gates sensory-evoked awakenings from sleep		4
1	Turn it off and on again: characteristics and control of torpor. <i>Wellcome Open Research</i> , <b>6</b> , 313	4.8	0