

# Anthony E Pickering

## List of Publications by Year in descending order

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105  
papers

4,374  
citations

94433

37  
h-index

128289

60  
g-index

140  
all docs

140  
docs citations

140  
times ranked

4165  
citing authors

#	ARTICLE	IF	CITATIONS
1	The yin and yang of cardiac autonomic control: Vago-sympathetic interactions revisited. <i>Brain Research Reviews</i> , 2005, 49, 555-565.	9.0	280
2	Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity. <i>Journal of Physiology</i> , 2008, 586, 3253-3265.	2.9	211
3	Amplified respiratoryâ€“sympathetic coupling in the spontaneously hypertensive rat: does it contribute to hypertension?. <i>Journal of Physiology</i> , 2009, 587, 597-610.	2.9	178
4	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, .	6.0	178
5	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, 72-77.	3.4	170
6	A quantitative evaluation of aerosol generation during tracheal intubation and extubation. <i>Anaesthesia</i> , 2021, 76, 174-181.	3.8	159
7	Optoactivation of Locus Coeruleus Neurons Evokes Bidirectional Changes in Thermal Nociception in Rats. <i>Journal of Neuroscience</i> , 2014, 34, 4148-4160.	3.6	134
8	Redefining Noradrenergic Neuromodulation of Behavior: Impacts of a Modular Locus Coeruleus Architecture. <i>Journal of Neuroscience</i> , 2019, 39, 8239-8249.	3.6	132
9	Locus coeruleus norepinephrine activity mediates sensory-evoked awakenings from sleep. <i>Science Advances</i> , 2020, 6, eaaz4232.	10.3	124
10	The Nucleus of the Solitary Tract: An Integrating Station for Nociceptive and Cardiorespiratory Afferents. <i>Experimental Physiology</i> , 2002, 87, 259-266.	2.0	99
11	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.	3.9	95
12	Retrograde optogenetic characterization of the pontospinal module of the locus coeruleus with a canine adenoviral vector. <i>Brain Research</i> , 2016, 1641, 274-290.	2.2	81
13	TRPA1â€“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, 1960-1973.	2.6	80
14	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.	4.2	79
15	Brainstem sources of cardiac vagal tone and respiratory sinus arrhythmia. <i>Journal of Physiology</i> , 2016, 594, 7249-7265.	2.9	79
16	Electrotonic coupling between rat sympathetic preganglionic neurones in vitro.. <i>Journal of Physiology</i> , 1996, 495, 491-502.	2.9	78
17	A spinal vasopressinergic mechanism mediates hyperosmolalityâ€“induced sympathoexcitation. <i>Journal of Physiology</i> , 2006, 576, 569-583.	2.9	74
18	Retrograde adenoviral vector targeting of nociresponsive pontospinal noradrenergic neurons in the rat in vivo. <i>Journal of Comparative Neurology</i> , 2009, 512, 141-157.	1.6	68

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19	Locus Coeruleus tracking of prediction errors optimises cognitive flexibility: An Active Inference model. <i>PLoS Computational Biology</i> , 2019, 15, e1006267.	3.2	68
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> , 2006, 155, 260-271.	2.5	65
21	Processing of central and reflex vagal drives by rat cardiac ganglion neurones: an intracellular analysis. <i>Journal of Physiology</i> , 2011, 589, 5801-5818.	2.9	63
22	5 $\alpha$ -Hydroxytryptamine evokes depolarizations and membrane potential oscillations in rat sympathetic preganglionic neurones.. <i>Journal of Physiology</i> , 1994, 480, 109-121.	2.9	60
23	Deep brain stimulation of the periaqueductal gray releases endogenous opioids in humans. <i>NeuroImage</i> , 2017, 146, 833-842.	4.2	58
24	Whole-cell recordings from sympathetic preganglionic neurons in rat spinal cord slices. <i>Neuroscience Letters</i> , 1991, 130, 237-242.	2.1	56
25	Nociception attenuates parasympathetic but not sympathetic baroreflex via NK 1 receptors in the rat nucleus tractus solitarii. <i>Journal of Physiology</i> , 2003, 551, 589-599.	2.9	56
26	Targeting brain stem centers of cardiovascular control using adenoviral vectors: impact of promoters on transgene expression. <i>Physiological Genomics</i> , 2005, 20, 165-172.	2.3	56
27	Deep brain stimulation relieves refractory hypertension. <i>Neurology</i> , 2011, 76, 405-407.	1.1	53
28	Resolving the Brainstem Contributions to Attentional Analgesia. <i>Journal of Neuroscience</i> , 2017, 37, 2279-2291.	3.6	52
29	Aerosol generating procedures: are they of relevance for transmission of SARS-CoV-2?. <i>Lancet Respiratory Medicine</i> , 2021, 9, 687-689.	10.7	51
30	Regulation of food intake by astrocytes in the brainstem dorsal vagal complex. <i>Glia</i> , 2020, 68, 1241-1254.	4.9	50
31	REFLEXLY EVOKED COACTIVATION OF CARDIAC VAGAL AND SYMPATHETIC MOTOR OUTFLOWS: OBSERVATIONS AND FUNCTIONAL IMPLICATIONS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2006, 33, 1245-1250.	1.9	49
32	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-R1960.	1.8	49
33	Hierarchical recruitment of the sympathetic and parasympathetic limbs of the baroreflex in normotensive and spontaneously hypertensive rats. <i>Journal of Physiology</i> , 2007, 579, 473-486.	2.9	48
34	Assessing Long-term Neurodevelopmental Outcome Following General Anesthesia in Early Childhood: Challenges and Opportunities. <i>Anesthesia and Analgesia</i> , 2019, 128, 681-694.	2.2	48
35	A Functional Analysis of the Influence of $\alpha$ -adrenoceptors on the Rat Micturition Cycle. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2013, 347, 506-515.	2.5	46
36	Effect of Combined Spinal-Epidural Ambulatory Labor Analgesia on Balance. <i>Anesthesiology</i> , 1999, 91, 436-441.	2.5	42

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37	Retrograde Viral Vector-Mediated Inhibition of Pontospinal Noradrenergic Neurons Causes Hyperalgesia in Rats. <i>Journal of Neuroscience</i> , 2009, 29, 12855-12864.	3.6	39
38	Is augmented central respiratory sympathetic coupling involved in the generation of hypertension?. <i>Respiratory Physiology and Neurobiology</i> , 2010, 174, 89-97.	1.6	39
39	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, 2611-2623.	4.0	37
40	<i>In vivo</i> patch-clamp recording from locus coeruleus neurones in the rat brainstem. <i>Journal of Physiology</i> , 2012, 590, 2225-2231.	2.9	37
41	Intrathecal reboxetine suppresses evoked and ongoing neuropathic pain behaviours by restoring spinal noradrenergic inhibitory tone. <i>Pain</i> , 2015, 156, 328-334.	4.2	36
42	Anatomically and functionally distinct locus coeruleus efferents mediate opposing effects on anxiety-like behavior. <i>Neurobiology of Stress</i> , 2020, 13, 100284.	4.0	33
43	Dominant role of aortic baroreceptors in the cardiac baroreflex of the rat in situ. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 142, 32-39.	2.8	32
44	Identification of the source events for aerosol generation during oesophago-gastro-duodenoscopy. <i>Gut</i> , 2022, 71, 871-878.	12.1	32
45	Inhibition of sympathetic preganglionic neurons by spinal glycinergic interneurons. <i>Neuroscience</i> , 1994, 62, 205-216.	2.3	31
46	Activation of Brainstem Pro-opiomelanocortin Neurons Produces Opioidergic Analgesia, Bradycardia and Bradypnoea. <i>PLoS ONE</i> , 2016, 11, e0153187.	2.5	31
47	Analgesia in conjunction with normalisation of thermal sensation following deep brain stimulation for central post-stroke pain. <i>Pain</i> , 2009, 147, 299-304.	4.2	30
48	Noradrenaline Release from Locus Coeruleus Terminals in the Hippocampus Enhances Excitation-Spike Coupling in CA1 Pyramidal Neurons Via $\beta^2$ -Adrenoceptors. <i>Cerebral Cortex</i> , 2020, 30, 6135-6151.	2.9	29
49	Behavioral correlates of activity of optogenetically identified locus coeruleus noradrenergic neurons in rats performing T-maze tasks. <i>Scientific Reports</i> , 2019, 9, 1361.	3.3	28
50	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.	2.9	28
51	An Exploration of the Control of Micturition Using a Novel in Situ Arterially Perfused Rat Preparation. <i>Frontiers in Neuroscience</i> , 2011, 5, 62.	2.8	27
52	Muro-Neuro-Urodynamics; a Review of the Functional Assessment of Mouse Lower Urinary Tract Function. <i>Frontiers in Physiology</i> , 2017, 8, 49.	2.8	27
53	Parallel cortical-brainstem pathways to attentional analgesia. <i>NeuroImage</i> , 2021, 226, 117548.	4.2	26
54	Excitation of sympathetic preganglionic neurons via metabotropic excitatory amino acid receptors. <i>Neuroscience</i> , 1995, 68, 1247-1261.	2.3	25

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55	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.	5.4	24
56	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , 2021, 76, 1577-1584.	3.8	23
57	Simultaneous brain, brainstem, and spinal cord pharmacological-fMRI reveals involvement of an endogenous opioid network in attentional analgesia. <i>ELife</i> , 2022, 11, .	6.0	23
58	Tactile allodynia in patients with postherpetic neuralgia: Lack of change in skin blood flow upon dynamic stimulation. <i>Pain</i> , 2005, 117, 154-161.	4.2	22
59	Characterising the Analgesic Effect of Different Targets for Deep Brain Stimulation in Trigeminal Anaesthesia Dolorosa. <i>Stereotactic and Functional Neurosurgery</i> , 2016, 94, 174-181.	1.5	22
60	Advancing respiratory cardiovascular physiology with the working heart-brainstem preparation over 25 years. <i>Journal of Physiology</i> , 2022, 600, 2049-2075.	2.9	22
61	Investigation of Systemic Bupivacaine Toxicity using the In situ Perfused Working Heart-Brainstem Preparation of the Rat. <i>Anesthesiology</i> , 2002, 97, 1550-1556.	2.5	20
62	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, .	6.0	20
63	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, 9.	2.3	19
64	A quantitative evaluation of aerosol generation during tracheal intubation and extubation: a reply. <i>Anaesthesia</i> , 2021, 76, 16-18.	3.8	19
65	Probabilistic, spinally-gated control of bladder pressure and autonomous micturition by Barrington's nucleus CRH neurons. <i>ELife</i> , 2020, 9, .	6.0	19
66	Prolonged ketamine infusion as a therapy for complex regional pain syndrome: synergism with antagonism?. <i>British Journal of Clinical Pharmacology</i> , 2014, 77, 233-238.	2.4	18
67	Influence of age on respiratory modulation of muscle sympathetic nerve activity, blood pressure and baroreflex function in humans. <i>Experimental Physiology</i> , 2015, 100, 1039-1051.	2.0	17
68	Hedonic drinking engages a supraspinal inhibition of thermal nociception in adult rats. <i>Pain</i> , 2019, 160, 1059-1069.	4.2	17
69	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, 727-738.	2.9	16
70	Homotopic stimulation can reduce the area of allodynia in patients with neuropathic pain. <i>European Journal of Pain</i> , 2009, 13, 942-948.	2.8	16
71	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, 2215-2236.	2.9	15
72	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, 2756-2778.	1.8	14

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73	Quantitative evaluation of aerosol generation during manual facemask ventilation. <i>Anaesthesia</i> , 2022, 77, 22-27.	3.8	14
74	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.	1.4	12
75	Ultrasound-guided, open-source microneurography: Approaches to improve recordings from peripheral nerves in man. <i>Clinical Neurophysiology</i> , 2018, 129, 2475-2481.	1.5	11
76	A quantitative evaluation of aerosol generation during supraglottic airway insertion and removal. <i>Anaesthesia</i> , 2022, 77, 230-231.	3.8	11
77	Neurons in the Dorsomedial Hypothalamus Promote, Prolong, and Deepen Torpor in the Mouse. <i>Journal of Neuroscience</i> , 2022, 42, 4267-4277.	3.6	11
78	Modelling the vascular response to sympathetic postganglionic nerve activity. <i>Journal of Theoretical Biology</i> , 2015, 371, 102-116.	1.7	10
79	Characterization of mouse neuroeurological dynamics in a novel decerebrate arterially perfused mouse (DAPM) preparation. <i>Neurourology and Urodynamics</i> , 2018, 37, 1302-1312.	1.5	10
80	Central pain modulatory mechanisms of attentional analgesia are preserved in fibromyalgia. <i>Pain</i> , 2022, 163, 125-136.	4.2	9
81	Platelet dysfunction after Out of Hospital Cardiac Arrest. Results from POHCAR: A prospective observational, cohort study. <i>Resuscitation</i> , 2019, 136, 105-111.	3.0	8
82	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.	2.5	8
83	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , 2020, 5, 43.	1.8	8
84	Modulation of Bladder Wall Micromotions Alters Intravesical Pressure Activity in the Isolated Bladder. <i>Frontiers in Physiology</i> , 2018, 9, 1937.	2.8	7
85	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.	1.4	7
86	The effects of xenon on sevoflurane anaesthesia-induced acidosis and brain cell apoptosis in immature rats. <i>Paediatric Anaesthesia</i> , 2021, 31, 372-374.	1.1	7
87	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	6
88	Sweet taste does not modulate pain perception in adult humans. <i>Wellcome Open Research</i> , 2020, 5, 43.	1.8	6
89	Quantitative evaluation of aerosol generation from upper airway suctioning assessed during tracheal intubation and extubation sequences in anaesthetized patients. <i>Journal of Hospital Infection</i> , 2022, 124, 13-21.	2.9	6
90	Airway procedures: the importance of distinguishing between high risk and aerosol generation. <i>Anaesthesia</i> , 2021, 76, 28-29.	3.8	3

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91	Turn it off and on again: characteristics and control of torpor. Wellcome Open Research, 0, 6, 313.	1.8	3
92	Cross-talk Between Body Systems. , 2012, , 151-155.		2
93	DISTINCT BRAINSTEM ORIGINS OF CARDIAC VAGAL TONE AND RESPIRATORY SINUS ARRHYTHMIA. FASEB Journal, 2015, 29, 1056.3.	0.5	2
94	Turn it off and on again: characteristics and control of torpor. Wellcome Open Research, 2021, 6, 313.	1.8	2
95	Evaluating the association of TRPA1 gene polymorphisms with pain sensitivity: a protocol for an adaptive recall by genotype study. BMC Medical Genomics, 2022, 15, 9.	1.5	2
96	144â€¦Does Home-Based, Slow Deep Breathing Training Reduce Central Sympathetic Outflow and Enhance Baroreflex Sensivity in Primary Hypertension?. Heart, 2015, 101, A83.1-A83.	2.9	1
97	Increased intrinsic excitability of muscle vasoconstrictor sympathetic preganglionic neurones in neonatal spontaneously hypertensive rats. FASEB Journal, 2010, 24, 809.13.	0.5	1
98	Altered respiratory related bursting of muscle sympathetic nerve activity in humans with essential hypertension. FASEB Journal, 2011, 25, 1076.2.	0.5	1
99	Multisite silicon probes enable simultaneous recording of spontaneous and evoked activity in multiple isolated C-fibres in rat saphenous nerve. Journal of Neuroscience Methods, 2021, 368, 109419.	2.5	1
100	A NOVEL IN SITU APPROACH FOR STUDYING THE HYPOTHALAMIC CONTROL OF HYPEROSMOLALITY INDUCED SYMPATHOEXCITATION. FASEB Journal, 2006, 20, .	0.5	0
101	Increased sympathetic activity in rats submitted to chronic intermittent hypoxia (CIH) is coupled to enhanced late expiratory activity. FASEB Journal, 2008, 22, 739.1.	0.5	0
102	Gap junction couplingâ€¦mediated membrane potential oscillations drive activity in cutaneous but not muscle vasoconstrictor sympathetic preganglionic neurones in situ. FASEB Journal, 2009, 23, 611.9.	0.5	0
103	Influence of age on respiratory modulation of muscle sympathetic nerve activity and blood pressure in humans. FASEB Journal, 2013, 27, 1118.23.	0.5	0
104	Deviceâ€¦guided slow deep breathing in essential hypertension: is cardiac or sympathetic baroreflex sensitivity altered? (1132.7). FASEB Journal, 2014, 28, 1132.7.	0.5	0
105	Effect of device guided slow deep breathing on central sympathetic outflow and arterial baroreflex sensitivity in young healthy individuals (1170.4). FASEB Journal, 2014, 28, 1170.4.	0.5	0