Luke A Henderson

List of Publications by Year in descending order

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76326 91884 5,663 136 40 69 citations h-index g-index papers 140 140 140 5419 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Brain Morphology Associated with Obstructive Sleep Apnea. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 1382-1387.	5.6	506
2	Anatomical Changes in Human Motor Cortex and Motor Pathways following Complete Thoracic Spinal Cord Injury. Cerebral Cortex, 2009, 19, 224-232.	2.9	216
3	Different Pain, Different Brain: Thalamic Anatomy in Neuropathic and Non-Neuropathic Chronic Pain Syndromes. Journal of Neuroscience, 2011, 31, 5956-5964.	3.6	200
4	Functional Reorganization of the Brain in Humans Following Spinal Cord Injury: Evidence for Underlying Changes in Cortical Anatomy. Journal of Neuroscience, 2011, 31, 2630-2637.	3.6	165
5	Somatotopic organization of the processing of muscle and cutaneous pain in the left and right insula cortex: A single-trial fMRI study. Pain, 2007, 128, 20-30.	4.2	151
6	Chronic Pain: Lost Inhibition?. Journal of Neuroscience, 2013, 33, 7574-7582.	3.6	148
7	Pain and Plasticity: Is Chronic Pain Always Associated with Somatosensory Cortex Activity and Reorganization?. Journal of Neuroscience, 2012, 32, 14874-14884.	3.6	138
8	fMRI responses to cold pressor challenges in control and obstructive sleep apnea subjects. Journal of Applied Physiology, 2003, 94, 1583-1595.	2.5	128
9	Chronic Neuropathic Pain: It's about the Rhythm. Journal of Neuroscience, 2016, 36, 1008-1018.	3.6	110
10	Disruption of default mode network dynamics in acute and chronic pain states. NeuroImage: Clinical, 2018, 17, 222-231.	2.7	106
11	Neural responses during Valsalva maneuvers in obstructive sleep apnea syndrome. Journal of Applied Physiology, 2003, 94, 1063-1074.	2.5	104
12	Brain Responses Associated With the Valsalva Maneuver Revealed by Functional Magnetic Resonance Imaging. Journal of Neurophysiology, 2002, 88, 3477-3486.	1.8	102
13	Gender differences in brain activity evoked by muscle and cutaneous pain: A retrospective study of single-trial fMRI data. NeuroImage, 2008, 39, 1867-1876.	4.2	96
14	Distinct forebrain activity patterns during deep versus superficial pain. Pain, 2006, 120, 286-296.	4.2	95
15	Functional magnetic resonance imaging responses to expiratory loading in obstructive sleep apnea. Respiratory Physiology and Neurobiology, 2003, 138, 275-290.	1.6	91
16	Brainstem Pain-Control Circuitry Connectivity in Chronic Neuropathic Pain. Journal of Neuroscience, 2018, 38, 465-473.	3.6	90
17	Functional magnetic resonance signal changes in neural structures to baroreceptor reflex activation. Journal of Applied Physiology, 2004, 96, 693-703.	2.5	89
18	Movement imagery increases pain in people with neuropathic pain following complete thoracic spinal cord injury. Pain, 2008, 137, 237-244.	4.2	86

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19	The ventrolateral periaqueductal gray projects to caudal brainstem depressor regions: a functional-anatomical and physiological study. Neuroscience, 1997, 82, 201-221.	2.3	85
20	Realâ€time imaging of the medullary circuitry involved in the generation of spontaneous muscle sympathetic nerve activity in awake subjects. Human Brain Mapping, 2010, 31, 539-549.	3.6	85
21	Pain inhibits pain; human brainstem mechanisms. Neurolmage, 2016, 124, 54-62.	4.2	85
22	Inspiratory loading elicits aberrant fMRI signal changes in obstructive sleep apnea. Respiratory Physiology and Neurobiology, 2006, 151, 44-60.	1.6	83
23	Longstanding neuropathic pain after spinal cord injury is refractory to transcranial direct current stimulation: A randomized controlled trial. Pain, 2013, 154, 2178-2184.	4.2	79
24	Neural sites involved in the sustained increase in muscle sympathetic nerve activity induced by inspiratory capacity apnea: a fMRI study. Journal of Applied Physiology, 2006, 100, 266-273.	2.5	75
25	Brain circuitry underlying pain in response to imagined movement in people with spinal cord injury. Pain, 2010, 148, 438-445.	4.2	74
26	Functional and structural changes in the brain associated with the increase in muscle sympathetic nerve activity in obstructive sleep apnoea. NeuroImage: Clinical, 2014, 6, 275-283.	2.7	73
27	Cortical and brain stem changes in neural activity during static handgrip and postexercise ischemia in humans. Journal of Applied Physiology, 2010, 108, 1691-1700.	2.5	72
28	Differential brain activity in subjects with painful trigeminal neuropathy and painful temporomandibular disorder. Pain, 2014, 155, 467-475.	4.2	68
29	Effects of deep and superficial experimentally induced acute pain on muscle sympathetic nerve activity in human subjects. Journal of Physiology, 2009, 587, 183-193.	2.9	66
30	Cortical influences on brainstem circuitry responsible for conditioned pain modulation in humans. Human Brain Mapping, 2016, 37, 2630-2644.	3.6	66
31	Cardiovascular effects of microinjections of opioid agonists into the `Depressor Region' of the ventrolateral periaqueductal gray region. Brain Research, 1997, 762, 61-71.	2.2	64
32	Acute and Chronic Pain Processing in the Thalamocortical System of Humans and Animal Models. Neuroscience, 2018, 387, 58-71.	2.3	62
33	Changes in Brainstem Pain Modulation Circuitry Function over the Migraine Cycle. Journal of Neuroscience, 2018, 38, 10479-10488.	3.6	61
34	Real-time imaging of cortical and subcortical control of muscle sympathetic nerve activity in awake human subjects. Neurolmage, 2013, 70, 59-65.	4.2	60
35	Deep in the brain: Changes in subcortical function immediately preceding a migraine attack. Human Brain Mapping, 2018, 39, 2651-2663.	3.6	54
36	Brainstem changes associated with increased muscle sympathetic drive in obstructive sleep apnoea. Neurolmage, 2014, 103, 258-266.	4.2	48

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37	Autonomic markers of emotional processing: skin sympathetic nerve activity in humans during exposure to emotionally charged images. Frontiers in Physiology, 2012, 3, 394.	2.8	47
38	Reduced integrity of the uncinate fasciculus and cingulum in depression: A stem-by-stem analysis. Journal of Affective Disorders, 2018, 235, 220-228.	4.1	47
39	Differential activation of the human trigeminal nuclear complex by noxious and nonâ€noxious orofacial stimulation. Human Brain Mapping, 2009, 30, 3772-3782.	3.6	46
40	Identification of sites of sympathetic outflow at rest and during emotional arousal: Concurrent recordings of sympathetic nerve activity and fMRI of the brain. International Journal of Psychophysiology, 2013, 89, 451-459.	1.0	45
41	"Real-time―imaging of cortical and subcortical sites of cardiovascular control: concurrent recordings of sympathetic nerve activity and fMRI in awake subjects. Journal of Neurophysiology, 2016, 116, 1199-1207.	1.8	45
42	Similarity of suffering: Equivalence of psychological and psychosocial factors in neuropathic and non-neuropathic orofacial pain patients. Pain, 2011, 152, 825-832.	4.2	42
43	Brainstem neuroimaging of nociception and pain circuitries. Pain Reports, 2019, 4, e745.	2.7	40
44	Effects of 12 Months Continuous Positive Airway Pressure on Sympathetic Activity Related Brainstem Function and Structure in Obstructive Sleep Apnea. Frontiers in Neuroscience, 2016, 10, 90.	2.8	39
45	Identification of the human sympathetic connectome involved in blood pressure regulation. Neurolmage, 2019, 202, 116119.	4.2	39
46	Altered brainstem anatomy in migraine. Cephalalgia, 2018, 38, 476-486.	3.9	38
47	Discrete Changes in Cortical Activation during Experimentally Induced Referred Muscle Pain: A Single-Trial fMRI Study. Cerebral Cortex, 2007, 17, 2050-2059.	2.9	35
48	Real-time imaging of cortical areas involved in the generation of increases in skin sympathetic nerve activity when viewing emotionally charged images. NeuroImage, 2012, 62, 30-40.	4.2	34
49	Real-time imaging of brain areas involved in the generation of spontaneous skin sympathetic nerve activity at rest. Neurolmage, 2013, 74, 188-194.	4.2	33
50	Anatomical Changes at the Level of the Primary Synapse in Neuropathic Pain: Evidence from the Spinal Trigeminal Nucleus. Journal of Neuroscience, 2015, 35, 2508-2515.	3.6	33
51	Grey matter volume in adolescents with anorexia nervosa and associated eating disorder symptoms. European Journal of Neuroscience, 2017, 46, 2297-2307.	2.6	33
52	Brainstem Mechanisms of Pain Modulation: A within-Subjects 7T fMRI Study of Placebo Analgesic and Nocebo Hyperalgesic Responses. Journal of Neuroscience, 2021, 41, 9794-9806.	3.6	33
53	Caudal midline medulla mediates behaviourally-coupled but not baroreceptor-mediated vasodepression. Neuroscience, 2000, 98, 779-792.	2.3	32
54	Anatomical changes within the medullary dorsal horn in chronic temporomandibular disorder pain. Neurolmage, 2015, 117, 258-266.	4.2	32

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55	Withinâ€limb somatotopic representation of acute muscle pain in the human contralateral dorsal posterior insula. Human Brain Mapping, 2011, 32, 1592-1601.	3.6	31
56	Chronic Migraine Pathophysiology and Treatment: A Review of Current Perspectives. Frontiers in Pain Research, 2021, 2, 705276.	2.0	31
57	Effects of deep and superficial experimentally induced acute pain on skin sympathetic nerve activity in human subjects. Experimental Brain Research, 2009, 195, 317-324.	1.5	30
58	Trigeminal Nerve Anatomy in Neuropathic and Non-neuropathic Orofacial Pain Patients. Journal of Pain, 2013, 14, 865-872.	1.4	30
59	Hypotension following acute hypovolaemia depends on the caudal midline medulla. NeuroReport, 1998, 9, 1839-1844.	1.2	29
60	Exploring the Effects of Near Infrared Light on Resting and Evoked Brain Activity in Humans Using Magnetic Resonance Imaging. Neuroscience, 2019, 422, 161-171.	2.3	29
61	Noxious activation of spinal or vagal afferents evokes distinct patterns of fos-like immunoreactivity in the ventrolateral periaqueductal gray of unanaesthetised rats. Brain Research, 2002, 948, 122-130.	2.2	28
62	Effects of Intramuscular Anesthesia on the Expression of Primary and Referred Pain Induced by Intramuscular Injection of Hypertonic Saline. Journal of Pain, 2009, 10, 829-835.	1.4	28
63	Reversal of functional changes in the brain associated with obstructive sleep apnoea following 6Âmonths of CPAP. NeuroImage: Clinical, 2015, 7, 799-806.	2.7	28
64	The relationship between thalamic <scp>GABA</scp> content and resting cortical rhythm in neuropathic pain. Human Brain Mapping, 2018, 39, 1945-1956.	3.6	28
65	Altered regional cerebral blood flow and hypothalamic connectivity immediately prior to a migraine headache. Cephalalgia, 2020, 40, 448-460.	3.9	28
66	Diffusion Tensor Imaging to Aid Subgenual Cingulum Target Selection for Deep Brain Stimulation in Depression. Stereotactic and Functional Neurosurgery, 2012, 90, 225-232.	1.5	27
67	Brain stem activity changes associated with restored sympathetic drive following CPAP treatment in OSA subjects: a longitudinal investigation. Journal of Neurophysiology, 2015, 114, 893-901.	1.8	26
68	Pain and Personality: Do Individuals with Different Forms of Chronic Pain Exhibit a Mutual Personality?. Pain Practice, 2016, 16, 486-494.	1.9	26
69	Identification of Sites of Sympathetic Outflow During Concurrent Recordings of Sympathetic Nerve Activity and fMRI. Anatomical Record, 2012, 295, 1396-1403.	1.4	24
70	Diffusion Tensor Imaging Investigation of Uncinate Fasciculus Anatomy in Healthy Controls: Description of a Subgenual Stem. Neuropsychobiology, 2017, 75, 132-140.	1.9	24
71	The effects of catastrophizing on central motor activity. European Journal of Pain, 2016, 20, 639-651.	2.8	23
72	Asymmetric sympathetic output: The dorsomedial hypothalamus as a potential link between emotional stress and cardiac arrhythmias. Autonomic Neuroscience: Basic and Clinical, 2017, 207, 22-27.	2.8	23

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73	Altered resting activity patterns and connectivity in individuals with complex regional pain syndrome. Human Brain Mapping, 2020, 41, 3781-3793.	3.6	22
74	??- and ??-opioid receptors in the caudal midline medulla mediate haemorrhage-evoked hypotension. NeuroReport, 2002, 13, 729-733.	1.2	20
75	Autonomic responses to exercise: Cortical and subcortical responses during post-exercise ischaemia and muscle pain. Autonomic Neuroscience: Basic and Clinical, 2015, 188, 10-18.	2.8	20
76	Fluctuating Regional Brainstem Diffusion Imaging Measures of Microstructure across the Migraine Cycle. ENeuro, 2019, 6, ENEURO.0005-19.2019.	1.9	20
77	Regional brain response patterns to Cheyne–Stokes breathing. Respiratory Physiology and Neurobiology, 2006, 150, 87-93.	1.6	19
78	Imaging Acute and Chronic Pain in the Human Brainstem and Spinal Cord. Neuroscientist, 2018, 24, 84-96.	3.5	19
79	How and why does photobiomodulation change brain activity?. Neural Regeneration Research, 2020, 15, 2243.	3.0	19
80	Subtle Alterations in Brain Anatomy May Change an Individual's Personality in Chronic Pain. PLoS ONE, 2014, 9, e109664.	2.5	18
81	Unraveling the Effects of Plasticity and Pain on Personality. Journal of Pain, 2013, 14, 1642-1652.	1.4	17
82	Obstructive Sleep Apnoea and Hypertension: the Role of the Central Nervous System. Current Hypertension Reports, 2016, 18, 59.	3.5	17
83	Neural responses to intravenous serotonin revealed by functional magnetic resonance imaging. Journal of Applied Physiology, 2002, 92, 331-342.	2.5	16
84	Functional magnetic resonance imaging during hypotension in the developing animal. Journal of Applied Physiology, 2004, 97, 2248-2257.	2.5	16
85	Changes in the Spatiotemporal Expression of Local and Referred Pain Following Repeated Intramuscular Injections of Hypertonic Saline: A Longitudinal Study. Journal of Pain, 2010, 11, 737-745.	1.4	16
86	Functional Imaging of the Human Brainstem during Somatosensory Input and Autonomic Output. Frontiers in Human Neuroscience, 2013, 7, 569.	2.0	16
87	Muscle sympathetic nerve activityâ€coupled changes in brain activity during sustained muscle pain. Brain and Behavior, 2018, 8, e00888.	2.2	16
88	Stress in obstructive sleep apnea. Scientific Reports, 2021, 11, 12631.	3.3	16
89	Medicinal cannabis in the treatment of chronic pain. Australian Journal of General Practice, 2021, 50, 724-732.	0.8	15
90	Exploring alterations in sensory pathways in migraine. Journal of Headache and Pain, 2022, 23, 5.	6.0	15

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91	<p>Altered Brainstem Pain-Modulation Circuitry Connectivity During Spontaneous Pain Intensity Fluctuations</p> . Journal of Pain Research, 2020, Volume 13, 2223-2235.	2.0	14
92	Effect of Expectation on Pain Processing: A Psychophysics and Functional MRI Analysis. Frontiers in Neuroscience, 2020, 14, 6.	2.8	13
93	Brainstem Pain-Modulation Circuitry and Its Plasticity in Neuropathic Pain: Insights From Human Brain Imaging Investigations. Frontiers in Pain Research, 2021, 2, 705345.	2.0	13
94	Stimulation of the dorsolateral prefrontal cortex modulates muscle sympathetic nerve activity and blood pressure in humans. Cerebral Cortex Communications, 2022, 3, tgac017.	1.6	12
95	Hypotensive but not normotensive haemorrhage increases tryptophan hydroxylase-2 mRNA in caudal midline medulla. Neuroscience Letters, 2006, 398, 314-318.	2.1	11
96	Central circuitry responsible for the divergent sympathetic responses to tonic muscle pain in humans. Human Brain Mapping, 2017, 38, 869-881.	3.6	11
97	Microstructural changes in the trigeminal nerve of patients with episodic migraine assessed using magnetic resonance imaging. Journal of Headache and Pain, 2020, 21, 59.	6.0	11
98	Altered regional brain T2 relaxation times in individuals with chronic orofacial neuropathic pain. NeuroImage: Clinical, 2018, 19, 167-173.	2.7	10
99	Brainstem functional oscillations across the migraine cycle: A longitudinal investigation. Neurolmage: Clinical, 2021, 30, 102630.	2.7	10
100	Alterations in pain processing circuitries in episodic migraine. Journal of Headache and Pain, 2022, 23, 9.	6.0	10
101	Resting regional brain activity and connectivity vary with resting blood pressure but not muscle sympathetic nerve activity in normotensive humans: An exploratory study. Journal of Cerebral Blood Flow and Metabolism, 2019, 39, 2433-2444.	4.3	9
102	Identifying Increases in Activity of the Human RVLM Through MSNA-Coupled fMRI. Frontiers in Neuroscience, 2019, 13, 1369.	2.8	9
103	Altered Brainstem Pain Modulating Circuitry Functional Connectivity in Chronic Painful Temporomandibular Disorder. Journal of Pain, 2021, 22, 219-232.	1.4	9
104	Increase in ACC GABA+ levels correlate with decrease in migraine frequency, intensity and disability over time. Journal of Headache and Pain, 2021, 22, 150.	6.0	9
105	Altered basal ganglia infraslow oscillation and resting functional connectivity in complex regional pain syndrome. Journal of Neuroscience Research, 2022, 100, 1487-1505.	2.9	9
106	How do neuroanatomical changes in individuals with chronic pain result in the constant perception of pain?. Pain Management, 2016, 6, 147-159.	1.5	8
107	<p>Effects of the glial modulator palmitoylethanolamide on chronic pain intensity and brain function</p> . Journal of Pain Research, 2019, Volume 12, 2427-2439.	2.0	8
108	Beat-to-beat blood pressure variability in patients with obstructive sleep apnea. Journal of Clinical Sleep Medicine, 2021, 17, 381-392.	2.6	8

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109	Somatic and visceral afferents to the †vasodepressor region†of the caudal midline medulla in the rat. European Journal of Neuroscience, 2003, 17, 1135-1149.	2.6	7
110	Dorsal raphe nucleus and harm avoidance: A resting-state investigation. Cognitive, Affective and Behavioral Neuroscience, 2016, 16, 561-569.	2.0	7
111	Does photobiomodulation influence the resting-state brain networks in young human subjects?. Experimental Brain Research, 2021, 239, 435-449.	1.5	7
112	The role of the dorsomedial and ventromedial hypothalamus in regulating behaviorally coupled and resting autonomic drive. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2021, 180, 187-200.	1.8	7
113	Regional hypothalamic, amygdala, and midbrain periaqueductal gray matter recruitment during acute pain in awake humans: A 7-Tesla functional magnetic resonance imaging study. Neurolmage, 2022, 259, 119408.	4.2	7
114	Differences in regional grey matter volume of the brain are related to mean blood pressure and muscle sympathetic nerve activity in normotensive humans. Journal of Hypertension, 2020, 38, 303-313.	0.5	6
115	CRPS Is Not Associated with Altered Sensorimotor Cortex GABA or Glutamate. ENeuro, 2020, 7, ENEURO.0389-19.2020.	1.9	6
116	Breathing rate variability in obstructive sleep apnea during wakefulness. Journal of Clinical Sleep Medicine, 2022, 18, 825-833.	2.6	6
117	A device for feline head positioning and stabilization during magnetic resonance imaging. Magnetic Resonance Imaging, 2001, 19, 1031-1036.	1.8	5
118	Structural mechanisms underlying autonomic reactions in pediatric arousal. Sleep Medicine, 2002, 3, \$53-\$56.	1.6	5
119	Structural abnormalities in the temporalis musculo-aponeurotic complex in chronic muscular temporomandibular disorders. Pain, 2020, 161, 1787-1797.	4.2	5
120	Functional organization of the insula in men and women with obstructive sleep apnea during Valsalva. Sleep, 2021, 44, .	1.1	5
121	DTI-basedÂupper limit of voxel free water fraction. Heliyon, 2018, 4, e00700.	3.2	4
122	Insular functional organization during handgrip in females and males with obstructive sleep apnea. PLoS ONE, 2021, 16, e0246368.	2.5	4
123	Physical and Emotional Pain. , 2010, , 54-63.		3
124	Predicting the spatiotemporal expression of local and referred acute muscle pain in individual subjects. Experimental Brain Research, 2012, 223, 11-18.	1.5	3
125	Imaging of Brainstem Sites Involved in Cardiovascular Control. , 2012, , 13-16.		1
126	Subcaudate Tractotomy White Matter Anatomy and Variability: A Diffusion Tensor Imaging Study. Stereotactic and Functional Neurosurgery, 2018, 96, 71-82.	1.5	1

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127	Trigeminal neuropathic pain: Evidence of central changes from human brain imaging investigations. Australian Endodontic Journal, 2018, 44, 125-135.	1.5	1
128	Baroreflex sensitivity during rest and pressor challenges in obstructive sleep apnea patients with and without CPAP. Sleep Medicine, 2022, , .	1.6	1
129	The pain conductor: brainstem modulation in acute and chronic pain. Current Opinion in Supportive and Palliative Care, 2022, 16, 71-77.	1.3	1
130	CENTRAL NEURAL MECHANISMS UNDERLYING DISORDERED BREATHING AND CARDIOVASCULAR CONTROL DURING SLEEP. , 2005, , 371-386.		0
131	315 MOVEMENT IMAGERY EVOKES PAIN IN SPINAL CORD INJURED PATIENTS. European Journal of Pain, 2007, 11, S139-S140.	2.8	O
132	221 STRUCTURAL CHANGES ASSOCIATED WITH PAIN IN SPINAL CORD INJURED PATIENTS. European Journal of Pain, 2007, 11, S97-S98.	2.8	0
133	Real-time imaging of the medullary circuitry involved in the generation of spontaneous muscle sympathetic nerve activity in awake human subjects. Nature Precedings, 2008, , .	0.1	0
134	356 BRAIN ANATOMY CHANGES ASSOCIATED WITH NEUROPATHIC PAIN FOLLOWING COMPLETE SPINAL CORD INJURY. European Journal of Pain Supplements, 2010, 4, 102-102.	0.0	0
135	The effects of audiovisual distraction on the muscle sympathetic responses to experimental muscle pain. Experimental Brain Research, 2018, 236, 1919-1925.	1.5	O
136	Cortical and subcortical contributions to muscle sympathetic nerve activity in awake humans: a functional connectivity fMRI analysis (686.30). FASEB Journal, 2014, 28, 686.30.	0.5	0