

Richard L Horner

List of Publications by Year in descending order

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84
papers

3,501
citations

109264

35
h-index

143943

57
g-index

84
all docs

84
docs citations

84
times ranked

1904
citing authors

#	ARTICLE	IF	CITATIONS
1	Motor Control of the Pharyngeal Musculature and Implications for the Pathogenesis of Obstructive Sleep Apnea. <i>Sleep</i> , 1996, 19, 827-853.	0.6	240
2	Serotonin at the Laterodorsal Tegmental Nucleus Suppresses Rapid-Eye-Movement Sleep in Freely Behaving Rats. <i>Journal of Neuroscience</i> , 1997, 17, 7541-7552.	1.7	187
3	Endogenous Excitatory Drive Modulating Respiratory Muscle Activity across Sleep-Wake States. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 174, 1264-1273.	2.5	169
4	Pre-Bötzing Complex Neurokinin-1 Receptor-Expressing Neurons Mediate Opioid-Induced Respiratory Depression. <i>Journal of Neuroscience</i> , 2011, 31, 1292-1301.	1.7	159
5	Identification of the Mechanism Mediating Genioglossus Muscle Suppression in REM Sleep. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 311-319.	2.5	158
6	Microdialysis perfusion of 5-HT into hypoglossal motor nucleus differentially modulates genioglossus activity across natural sleep-wake states in rats. <i>Journal of Physiology</i> , 2001, 532, 467-481.	1.3	151
7	Opioid receptor mechanisms at the hypoglossal motor pool and effects on tongue muscle activity <i>in vivo</i> . <i>Journal of Physiology</i> , 2009, 587, 2677-2692.	1.3	111
8	Role of Endogenous Serotonin in Modulating Genioglossus Muscle Activity in Awake and Sleeping Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2005, 172, 1338-1347.	2.5	107
9	Role of inhibitory amino acids in control of hypoglossal motor outflow to genioglossus muscle in naturally sleeping rats. <i>Journal of Physiology</i> , 2003, 552, 975-991.	1.3	97
10	Activation of a distinct arousal state immediately after spontaneous awakening from sleep. <i>Brain Research</i> , 1997, 778, 127-134.	1.1	86
11	Obstructive Sleep Apnoea: From pathogenesis to treatment: Current controversies and future directions. <i>Respirology</i> , 2010, 15, 587-595.	1.3	86
12	Selected Contribution: Effects of sleep-wake state on the genioglossus vs. diaphragm muscle responses to CO ₂ in rats. <i>Journal of Applied Physiology</i> , 2002, 92, 878-887.	1.2	85
13	Opposing muscarinic and nicotinic modulation of hypoglossal motor output to genioglossus muscle <i>in vivo</i> . <i>Journal of Physiology</i> , 2005, 565, 965-980.	1.3	78
14	Autonomic Consequences of Arousal From Sleep: Mechanisms and Implications. <i>Sleep</i> , 1996, 19, S193-S195.	0.6	77
15	State-dependent and reflex drives to the upper airway: basic physiology with clinical implications. <i>Journal of Applied Physiology</i> , 2014, 116, 325-336.	1.2	75
16	GABA _A receptor antagonism at the hypoglossal motor nucleus increases genioglossus muscle activity in NREM but not REM sleep. <i>Journal of Physiology</i> , 2003, 548, 569-583.	1.3	74
17	Neuromodulation of hypoglossal motoneurons during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 179-196.	0.7	72
18	The neuropharmacology of upper airway motor control in the awake and asleep states: implications for obstructive sleep apnoea. <i>Respiratory Research</i> , 2001, 2, 286.	1.4	69

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19	Circadian rhythms and sleep have additive effects on respiration in the rat. <i>Journal of Physiology</i> , 2001, 536, 225-235.	1.3	60
20	The ventilatory response to arousal from sleep is not fully explained by differences in CO ₂ levels between sleep and wakefulness. <i>Journal of Physiology</i> , 2001, 534, 881-890.	1.3	60
21	Identification of a Pharmacological Target for Genioglossus Reactivation throughout Sleep. <i>Sleep</i> , 2014, 37, 41-50.	0.6	56
22	5-HT at hypoglossal motor nucleus and respiratory control of genioglossus muscle in anesthetized rats. <i>Respiratory Physiology and Neurobiology</i> , 2003, 138, 205-221.	0.7	55
23	Respiratory motor activity: influence of neuromodulators and implications for sleep disordered breathing This paper is one of a selection of papers published in this Special Issue, entitled Young Investigators' Forum.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2007, 85, 155-165.	0.7	54
24	Pathophysiology of Obstructive Sleep Apnea. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , 2008, 28, 289-298.	1.2	54
25	Inhibition of serotonergic medullary raphe obscurus neurons suppresses genioglossus and diaphragm activities in anesthetized but not conscious rats. <i>Journal of Applied Physiology</i> , 2006, 100, 1807-1821.	1.2	52
26	Emerging principles and neural substrates underlying tonic sleep-state-dependent influences on respiratory motor activity. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 2553-2564.	1.8	50
27	A resource of potential drug targets and strategic decision-making for obstructive sleep apnoea pharmacotherapy. <i>Respirology</i> , 2017, 22, 861-873.	1.3	50
28	Impact of brainstem sleep mechanisms on pharyngeal motor control. <i>Respiration Physiology</i> , 2000, 119, 113-121.	2.8	46
29	Endogenous Glutamatergic Control of Rhythmically Active Mammalian Respiratory Motoneurons In Vivo. <i>Journal of Neuroscience</i> , 2008, 28, 6826-6835.	1.7	42
30	Pentobarbital Sedation Increases Genioglossus Respiratory Activity in Sleeping Rats. <i>Sleep</i> , 2007, 30, 478-488.	0.6	41
31	Selected Contribution: Regulation of sleep-wake states in response to intermittent hypoxic stimuli applied only in sleep. <i>Journal of Applied Physiology</i> , 2001, 90, 2490-2501.	1.2	40
32	Electrocortical changes associating sedation and respiratory depression by the opioid analgesic fentanyl. <i>Scientific Reports</i> , 2019, 9, 14122.	1.6	40
33	Glycine at hypoglossal motor nucleus: genioglossus activity, CO ₂ responses, and the additive effects of GABA. <i>Journal of Applied Physiology</i> , 2002, 93, 1786-1796.	1.2	39
34	Neural Control of the Upper Airway: Integrative Physiological Mechanisms and Relevance for Sleep Disordered Breathing. , 2012, 2, 479-535.		38
35	K ⁺ Channel modulation causes genioglossus inhibition in REM sleep and is a strategy for reactivation. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 277-288.	0.7	38
36	Endogenous Cholinergic Input to the Pontine REM Sleep Generator Is Not Required for REM Sleep to Occur. <i>Journal of Neuroscience</i> , 2014, 34, 14198-14209.	1.7	38

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37	The Sublaterodorsal Tegmental Nucleus Functions to Couple Brain State and Motor Activity during REM Sleep and Wakefulness. <i>Current Biology</i> , 2019, 29, 3803-3813.e5.	1.8	35
38	On-line detection of sleep-wake states and application to produce intermittent hypoxia only in sleep in rats. <i>Journal of Applied Physiology</i> , 2001, 90, 2130-2140.	1.2	33
39	Systemic vs. Central Administration of Common Hypnotics Reveals Opposing Effects on Genioglossus Muscle Activity in Rats. <i>Sleep</i> , 2008, 31, 355-365.	0.6	32
40	Genioglossus muscle activity and serotonergic modulation of hypoglossal motor output in obese Zucker rats. <i>Journal of Applied Physiology</i> , 2007, 102, 2240-2250.	1.2	27
41	Activation of the Hypoglossal to Tongue Musculature Motor Pathway by Remote Control. <i>Scientific Reports</i> , 2017, 7, 45860.	1.6	27
42	Contribution of the respiratory network to rhythm and motor output revealed by modulation of GIRK channels, somatostatin and neurokinin-1 receptors. <i>Scientific Reports</i> , 2016, 6, 32707.	1.6	26
43	Thalamic \hat{I} -Subunit Containing GABA _A Receptors Promote Electrocardial Signatures of Deep Non-REM Sleep But Do Not Mediate the Effects of Etomidate at the Thalamus <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2014, 34, 12253-12266.	1.7	24
44	Evaluating the Evidence Surrounding Pontine Cholinergic Involvement in REM Sleep Generation. <i>Frontiers in Neurology</i> , 2015, 6, 190.	1.1	24
45	Neurexins 3 R451C mutation alters electroencephalography spectral activity in an animal model of autism spectrum disorders. <i>Molecular Brain</i> , 2017, 10, 10.	1.3	24
46	Predictive factors for sleep apnoea in patients on opioids for chronic pain. <i>BMJ Open Respiratory Research</i> , 2019, 6, e000523.	1.2	23
47	Nitric oxide activates hypoglossal motoneurons by cGMP-dependent inhibition of TASK channels and cGMP-independent activation of HCN channels. <i>Journal of Neurophysiology</i> , 2012, 107, 1489-1499.	0.9	22
48	The persistence of a respiratory "personality" into stage IV sleep in man. <i>Respiration Physiology</i> , 1990, 80, 33-44.	2.8	19
49	Modulation of Genioglossus Muscle Activity Across Sleep-Wake States by Histamine at the Hypoglossal Motor Pool. <i>Sleep</i> , 2009, 32, 1313-1324.	0.6	19
50	Reduced expression of \hat{I} 5GABAA receptors elicits autism-like alterations in EEG patterns and sleep-wake behavior. <i>Neurotoxicology and Teratology</i> , 2017, 61, 115-122.	1.2	19
51	Caffeine in the neonatal period induces long-lasting changes in sleep and breathing in adult rats. <i>Journal of Physiology</i> , 2009, 587, 5493-5507.	1.3	17
52	Mechanisms of REM sleep in health and disease. <i>Current Opinion in Pulmonary Medicine</i> , 2014, 20, 527-532.	1.2	17
53	TASK Channels on Basal Forebrain Cholinergic Neurons Modulate Electrocardial Signatures of Arousal by Histamine. <i>Journal of Neuroscience</i> , 2015, 35, 13555-13567.	1.7	16
54	Cyclic Nucleotides Modulate Genioglossus and Hypoglossal Responses to Excitatory Inputs in Rats. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 555-565.	2.5	15

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55	State-Dependent Contribution of the Hyperpolarization-Activated Na ⁺ /K ⁺ and Persistent Na ⁺ Currents to Respiratory Rhythmogenesis <i>In Vivo</i> . <i>Journal of Neuroscience</i> , 2013, 33, 8716-8728.	1.7	15
56	Update in Sleep and Control of Ventilation 2006. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007, 175, 426-431.	2.5	12
57	State-dependent vs. central motor effects of ethanol on breathing. <i>Journal of Applied Physiology</i> , 2010, 108, 387-400.	1.2	12
58	Differential activating effects of thyrotropin-releasing hormone and its analog taltirelin on motor output to the tongue musculature in vivo. <i>Sleep</i> , 2020, 43, .	0.6	11
59	SLEEP AS A TEACHING TOOL FOR INTEGRATING RESPIRATORY PHYSIOLOGY AND MOTOR CONTROL. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2001, 25, 29-44.	0.8	10
60	Control of Genioglossus Muscle by Sleep State-Dependent Neuromodulators. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 262-267.	0.8	10
61	Evaluating the effects of general anesthesia on sleep in children undergoing elective surgery: an observational case-control study. <i>Sleep</i> , 2018, 41, .	0.6	10
62	Modulation of TASK-1/3 channels at the hypoglossal motoneuron pool and effects on tongue motor output and responses to excitatory inputs in vivo: implications for strategies for obstructive sleep apnea pharmacotherapy. <i>Sleep</i> , 2021, 44, .	0.6	9
63	Enhanced Thalamic Spillover Inhibition during Non-rapid-eye-movement Sleep Triggers an Electrocardiac Signature of Anesthetic Hypnosis. <i>Anesthesiology</i> , 2016, 125, 964-978.	1.3	8
64	Update in Sleep and Control of Ventilation 2008. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 528-532.	2.5	6
65	A Focal Inactivation and Computational Study of Ventrolateral Periaqueductal Gray and Deep Mesencephalic Reticular Nucleus Involvement in Sleep State Switching and Bistability. <i>ENeuro</i> , 2020, 7, ENEURO.0451-19.2020.	0.9	6
66	Î-subunit Containing GABA _A Receptors Modulate Respiratory Networks. <i>Scientific Reports</i> , 2017, 7, 18105.	1.6	5
67	Morphine-Induced Acetylcholine Release at the Hypoglossal Motor Nucleus: Implications for Opiate-Induced Respiratory Suppression. <i>Sleep</i> , 2007, 30, 551-552.	0.6	4
68	Update in Sleep and Control of Ventilation 2007. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 177, 947-951.	2.5	4
69	<i>Respiratory Physiology</i> , 2011, , 237-249.		4
70	Control of Breathing and Upper Airways During Sleep. , 2016, , 1511-1526.e1.		4
71	<i>Respiratory Physiology</i> , 2017, , 155-166.e5.		4
72	Measurement and State-Dependent Modulation of Hypoglossal Motor Excitability and Responsivity In-Vivo. <i>Scientific Reports</i> , 2020, 10, 550.	1.6	4

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73	Protein kinase A activators produce a short-term, but not long-term, increase in respiratory-drive transmission at the hypoglossal motor nucleus in vivo. <i>Neuroscience Letters</i> , 2010, 486, 14-18.	1.0	3
74	Update in Sleep and Control of Ventilation 2005. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 173, 827-832.	2.5	2
75	Role of the pre-Bötzing Complex in opioid-induced respiratory depression in adult rats in vivo. <i>FASEB Journal</i> , 2009, 23, 960.5.	0.2	2
76	Long term impact of neonatal caffeine on sleep architecture in freely behaving adult rats. <i>FASEB Journal</i> , 2007, 21, A1443.	0.2	2
77	Human Behavior: Sleep in Hunter-Gatherer Societies. <i>Current Biology</i> , 2015, 25, R1133-R1135.	1.8	1
78	Exposure to Sustained Hypoxia Impairs Subsequent Arousal Responses to Compromised Ventilation. <i>Sleep</i> , 2006, 29, 603-605.	0.6	0
79	On using the pathophysiology of obstructive sleep apnea as a teaching tool. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2009, 33, 135-136.	0.8	0
80	Optical Stimulation of Thalamic Spindle Circuitry Sustains Electroencephalogram Patterns of General Anesthesia but not Duration of Loss of Consciousness. <i>Neuroscience</i> , 2021, 468, 110-122.	1.1	0
81	Neonatal caffeine persistently increases breathing across sleep-wake states in freely behaving adult rats. <i>FASEB Journal</i> , 2007, 21, A1443.	0.2	0
82	Enhancement of the hypoxic ventilatory response in adult rats subjected to neonatal maternal separation is not affected by sleep-wake states. <i>FASEB Journal</i> , 2008, 22, 1172.4.	0.2	0
83	Effects of Ethanol on Sleep and Central Respiratory Motor Activity. <i>FASEB Journal</i> , 2009, 23, 1010.10.	0.2	0
84	Autonomic consequences of arousal from sleep and neural mechanisms of arousal. , 2011, , 128-156.		0