

Christopher G Wilson

List of Publications by Year in descending order

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43
papers

1,273
citations

623734

14
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

1399
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of vagus nerve stimulation as a therapeutic intervention. <i>Journal of Inflammation Research</i> , 2018, Volume 11, 203-213.	3.5	345
2	Respiratory rhythm generation in neonatal and adult mammals: the hybrid pacemaker network model. <i>Respiration Physiology</i> , 2000, 122, 131-147.	2.7	249
3	Functional Imaging, Spatial Reconstruction, and Biophysical Analysis of a Respiratory Motor Circuit Isolated <i>In Vitro</i> . <i>Journal of Neuroscience</i> , 2008, 28, 2353-2365.	3.6	107
4	Adenosine A _{2A} receptors mediate GABAergic inhibition of respiration in immature rats. <i>Journal of Applied Physiology</i> , 2006, 100, 91-97.	2.5	87
5	Arrest of 5HT neuron differentiation delays respiratory maturation and impairs neonatal homeostatic responses to environmental challenges. <i>Respiratory Physiology and Neurobiology</i> , 2007, 159, 85-101.	1.6	86
6	Vagal afferents modulate cytokine-mediated respiratory control at the neonatal medulla oblongata. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 458-464.	1.6	71
7	Prenatal Hypoxia/Ischemia Induces Abnormalities in CA3 Microstructure, Potassium Chloride Co-Transporter 2 Expression and Inhibitory Tone. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 347.	3.7	39
8	Lung and brainstem cytokine levels are associated with breathing pattern changes in a rodent model of acute lung injury. <i>Respiratory Physiology and Neurobiology</i> , 2011, 178, 429-438.	1.6	38
9	Newborn Hypoxia/Anoxia Inhibits Cardiomyocyte Proliferation and Decreases Cardiomyocyte Endowment in the Developing Heart: Role of Endothelin-1. <i>PLoS ONE</i> , 2015, 10, e0116600.	2.5	27
10	Intrapulmonary lipopolysaccharide exposure upregulates cytokine expression in the neonatal brainstem. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2012, 101, 466-471.	1.5	21
11	Vagal nerve stimulation attenuates IL-6 and TNF α expression in respiratory regions of the developing rat brainstem. <i>Respiratory Physiology and Neurobiology</i> , 2016, 229, 1-4.	1.6	21
12	Lung inflammation induces IL-1 β expression in hypoglossal neurons in rat brainstem. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 21-28.	1.6	20
13	What to do about apnea of prematurity?. <i>Journal of Applied Physiology</i> , 2009, 107, 1015-1016.	2.5	18
14	Eupnea, tachypnea, and autoresuscitation in a closed-loop respiratory control model. <i>Journal of Neurophysiology</i> , 2017, 118, 2194-2215.	1.8	18
15	Brain organoids: A promising model to assess oxidative stress-induced central nervous system damage. <i>Developmental Neurobiology</i> , 2021, 81, 653-670.	3.0	15
16	Perinatal hyperoxic exposure reconfigures the central respiratory network contributing to intolerance to anoxia in newborn rat pups. <i>Journal of Applied Physiology</i> , 2014, 116, 47-53.	2.5	13
17	Interferon downstream signaling is activated early in pre-symptomatic Niemann-Pick disease type C. <i>Neuroscience Letters</i> , 2019, 706, 43-50.	2.1	13
18	Loss of amyloid precursor protein exacerbates early inflammation in Niemann-Pick disease type C. <i>Journal of Neuroinflammation</i> , 2019, 16, 269.	7.2	11

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19	Differential effects of the retinopathy of prematurity exam on the physiology of premature infants. <i>Journal of Perinatology</i> , 2019, 39, 708-716.	2.0	10
20	Acute lung injury in neonatal rats causes postsynaptic depression in nucleus tractus solitarii second-order neurons. <i>Respiratory Physiology and Neurobiology</i> , 2019, 269, 103250.	1.6	9
21	Long-term high-altitude hypoxia influences pulmonary arterial L-type calcium channel-mediated Ca^{2+} signals and contraction in fetal and adult sheep. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R433-R446.	1.8	8
22	Drive latencies in hypoglossal motoneurons indicate developmental change in the brainstem respiratory network. <i>Journal of Neural Engineering</i> , 2011, 8, 065011.	3.5	7
23	Vagus nerve stimulation in pregnant rats and effects on inflammatory markers in the brainstem of neonates. <i>Pediatric Research</i> , 2018, 83, 514-519.	2.3	6
24	Modeling hypoglossal motoneurons in the developing rat. <i>Respiratory Physiology and Neurobiology</i> , 2019, 265, 40-48.	1.6	6
25	Changes in the Morphology of Hypoglossal Motor Neurons in the Brainstem of Developing Rats. <i>Anatomical Record</i> , 2019, 302, 869-892.	1.4	6
26	Estimation of Gestational Age via Image Analysis of Anterior Lens Capsule Vascularity in Preterm Infants: A Pilot Study. <i>Frontiers in Pediatrics</i> , 2019, 7, 43.	1.9	5
27	Short-term exposure to dietary cholesterol is associated with downregulation of interleukin-15, reduced thigmotaxis and memory impairment in mice. <i>Behavioural Brain Research</i> , 2020, 393, 112779.	2.2	4
28	Effects of inflammation on the developing respiratory system: Focus on hypoglossal (XII) neuron morphology, brainstem neurochemistry, and control of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2020, 275, 103389.	1.6	4
29	Neuroprotective role of nitric oxide inhalation and nitrite in a Neonatal Rat Model of Hypoxic-Ischemic Injury. <i>PLoS ONE</i> , 2022, 17, e0268282.	2.5	4
30	Preparation of Rhythmically-active In Vitro Neonatal Rodent Brainstem-spinal Cord and Thin Slice. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	1
31	Post-traumatic Neuroinflammation: Relevance to Pediatrics. <i>Pediatric Neurology</i> , 2021, 122, 50-58.	2.1	1
32	Loss of APP in mice increases thigmotaxis and is associated with elevated brain expression of IL-13 and IP-10/CXCL10. <i>Physiology and Behavior</i> , 2021, 240, 113533.	2.1	1
33	An overview of developmental dysregulation of autonomic control in infants. <i>Birth Defects Research</i> , 2021, 113, 864-871.	1.5	1
34	Long-Term Hypoxia Negatively Influences Ca^{2+} Signaling in Basilar Arterial Myocytes of Fetal and Adult Sheep. <i>Frontiers in Physiology</i> , 2021, 12, 760176.	2.8	1
35	To model or not to model – the physiologist's dilemma. <i>Journal of Physiology</i> , 2020, 598, 4747-4748.	2.9	0
36	A Free/Libre Open-Source (FLOSS) Suite of Interactive Tools for Physiology Data Analysis. <i>FASEB Journal</i> , 2015, 29, 814.15.	0.5	0

#	ARTICLE	IF	CITATIONS
37	Acute Hypoxia Differentially Modifies Ca ²⁺ Waves in Pulmonary Arterial Smooth Muscle Cells of Intact Arteries from Fetal and Adult Sheep. FASEB Journal, 2015, 29, 1031.9.	0.5	0
38	Activation Of L-type Calcium Channels Influences Calcium Waves After Long-Term Hypoxia And Developmental Maturation. FASEB Journal, 2015, 29, 662.1.	0.5	0
39	Chronic and Acute Hypoxia Markedly Alter Ca ²⁺ Signaling in Adult and Fetal Pulmonary Arterial Myocytes. FASEB Journal, 2016, 30, 774.7.	0.5	0
40	Long Term Hypoxia Reduces Ca ²⁺ Oscillations in Basilar Arterial Myocytes of Fetal and Adult Sheep. FASEB Journal, 2018, 32, 858.9.	0.5	0
41	Long Term Hypoxia Negatively Influences Ca ²⁺ Signaling in Basilar Arterial Myocytes of Fetal and Adult Sheep. FASEB Journal, 2019, 33, 551.7.	0.5	0
42	Synthetic Corticotropin Therapy Reduces Microglial Activation in a Rodent TBI Model. FASEB Journal, 2019, 33, 557.12.	0.5	0
43	Comparison of Local and Systemic Inflammation During Invasive Versus Noninvasive Ventilation in Rats. Journal of Interferon and Cytokine Research, 0, , .	1.2	0