

John L Carroll

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

8,199
citations

66343

42
h-index

46799

89
g-index

122
all docs

122
docs citations

122
times ranked

4353
citing authors

#	ARTICLE	IF	CITATIONS
1	Haploinsufficiency of <i>Col5a1</i> causes intrinsic lung and respiratory changes in a mouse model of classical Ehlers-Danlos syndrome. <i>Physiological Reports</i> , 2022, 10, e15275.	1.7	4
2	Infant inclined sleep product safety: A model for using biomechanics to explore safe infant product design. <i>Journal of Biomechanics</i> , 2021, 128, 110706.	2.1	4
3	Control of Breathing During Sleep and Wakefulness in the Fetus, Newborn, and Child. , 2021, , 19-31.		0
4	Postmenstrual age at discharge in premature infants with and without ventilatory pattern instability. <i>Journal of Perinatology</i> , 2020, 40, 157-162.	2.0	2
5	Do inclined sleeping surfaces impact infants' muscle activity and movement? A safe sleep product design perspective. <i>Journal of Biomechanics</i> , 2020, 111, 109999.	2.1	5
6	Transition From an ICU Ventilator to a Portable Home Ventilator in Children. <i>Respiratory Care</i> , 2020, 65, respcare.07641.	1.6	8
7	Respiratory defects in the <i>Crtap</i> KO mouse model of osteogenesis imperfecta. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L592-L605.	2.9	11
8	On the road to value-based payment for children with chronic respiratory disease: Are we there yet?. <i>Pediatric Pulmonology</i> , 2019, 54, 1650-1651.	2.0	0
9	Pre-Vent: the prematurity-related ventilatory control study. <i>Pediatric Research</i> , 2019, 85, 769-776.	2.3	33
10	High-Quality Pediatric Spirometry Via Telemedicine. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, AB103.	2.9	1
11	Cardioventilatory Control in Preterm-born Children and the Risk of Obstructive Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 1596-1603.	5.6	27
12	Delivery of high-quality pediatric spirometry in rural communities: A novel use for telemedicine. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2018, 6, 1042-1044.	3.8	12
13	Assessing ventilatory instability using the response to spontaneous sighs during sleep in preterm infants. <i>Sleep</i> , 2018, 41, .	1.1	10
14	Neonatal nonepileptic myoclonus is a prominent clinical feature of <i>KCNQ2</i> gain-of-function variants R201C and R201H. <i>Epilepsia</i> , 2017, 58, 436-445.	5.1	80
15	Improving knowledge, technical skills, and confidence among pediatric health care providers in the management of chronic tracheostomy using a simulation model. <i>Pediatric Pulmonology</i> , 2016, 51, 696-704.	2.0	53
16	An Official American Thoracic Society Clinical Practice Guideline: Pediatric Chronic Home Invasive Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, e16-e35.	5.6	180
17	Clinical characteristics and epidemiology of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA) in children with cystic fibrosis from a center with a high MRSA prevalence. <i>American Journal of Infection Control</i> , 2016, 44, 409-415.	2.3	16
18	Transition of respiratory technology dependent patients from pediatric to adult pulmonology care. <i>Pediatric Pulmonology</i> , 2015, 50, 1294-1300.	2.0	21

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19	Characteristics and Surgical and Clinical Outcomes of Severely Obese Children with Obstructive Sleep Apnea. <i>Journal of Clinical Sleep Medicine</i> , 2015, 11, 467-474.	2.6	33
20	Hydrogen sulfide and hypoxia-induced changes in TASK (K2P3/9) activity and intracellular Ca ²⁺ concentration in rat carotid body glomus cells. <i>Respiratory Physiology and Neurobiology</i> , 2015, 215, 30-38.	1.6	17
21	Peanuts. <i>Clinical Pediatrics</i> , 2015, 54, 393-395.	0.8	0
22	Possible Role of TRP Channels in Rat Glomus Cells. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 227-232.	1.6	7
23	Effect of Chronic Hypoxia on the Carotid Body Glomus Cell Mitochondrial Response to Acute Hypoxia. <i>FASEB Journal</i> , 2015, 29, LB691.	0.5	0
24	Hydrogen Sulfide and Hypoxia-induced Changes in K2P3/9 (TASK) current and [Ca ²⁺] i in Rat Carotid Body Glomus Cells. <i>FASEB Journal</i> , 2015, 29, 682.8.	0.5	0
25	Respiratory Physiology and Pathophysiology During Sleep. , 2014, , 179-194.		3
26	Predictors and Outcome of Low Initial Forced Expiratory Volume in 1 Second Measurement in Children with Cystic Fibrosis. <i>Journal of Pediatrics</i> , 2014, 164, 832-838.	1.8	30
27	Effects of modulators of AMP-activated protein kinase on TASK-1/3 and intracellular Ca ²⁺ concentration in rat carotid body glomus cells. <i>Respiratory Physiology and Neurobiology</i> , 2014, 195, 19-26.	1.6	22
28	Non-additive interactions between mitochondrial complex IV blockers and hypoxia in rat carotid body responses. <i>Respiratory Physiology and Neurobiology</i> , 2014, 190, 62-69.	1.6	5
29	Perinatal hyperoxia exposure impairs hypoxia-induced depolarization in rat carotid body glomus cells. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 9-14.	1.6	9
30	Carotid chemoreceptor "resetting" revisited. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 30-43.	1.6	31
31	Foreword. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 1-2.	1.6	0
32	The Impact of Technology Dependence on Children and Their Families. <i>Journal of Pediatric Health Care</i> , 2013, 27, 451-459.	1.2	47
33	Role of a Respiratory Therapist in Improving Adherence to Positive Airway Pressure Treatment in a Pediatric Sleep Apnea Clinic. <i>Respiratory Care</i> , 2013, 58, 2038-2044.	1.6	40
34	NAD(P)H autofluorescence induction by Compound C in rat carotid chemoreceptor cells. <i>FASEB Journal</i> , 2013, 27, 1137.29.	0.5	0
35	Purinergic Modulation of Carotid Body Glomus Cell Hypoxia Response During Postnatal Maturation in Rats. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 249-253.	1.6	9
36	Postnatal Hyperoxia Impairs Acute Oxygen Sensing of Rat Glomus Cells by Reduced Membrane Depolarization. <i>Advances in Experimental Medicine and Biology</i> , 2012, 758, 49-54.	1.6	8

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37	Chemoreceptors, Breathing, and Sleep. , 2012, , 133-151.		0
38	Periodic Limb Movements during Sleep in Children with Narcolepsy. Journal of Clinical Sleep Medicine, 2011, 07, 597-601.	2.6	22
39	Role of MaxiK-type calcium dependent K ⁺ channels in rat carotid body hypoxia transduction during postnatal development. Respiratory Physiology and Neurobiology, 2011, 177, 1-8.	1.6	6
40	Recovery of carotid body O ₂ sensitivity following chronic postnatal hyperoxia in rats. Respiratory Physiology and Neurobiology, 2011, 177, 47-55.	1.6	20
41	Changes in oxygen sensitivity of TASK in carotid body glomus cells during early postnatal development. Respiratory Physiology and Neurobiology, 2011, 177, 228-235.	1.6	18
42	Characterization of an ATP-sensitive K ⁺ channel in rat carotid body glomus cells. Respiratory Physiology and Neurobiology, 2011, 177, 247-255.	1.6	14
43	Reference gene validation for qPCR in rat carotid body during postnatal development. BMC Research Notes, 2011, 4, 440.	1.4	35
44	Chronic Lung Disease of Childhood: Control of Breathing During Wake and Sleep. Pediatric, Allergy, Immunology, and Pulmonology, 2011, 24, 39-43.	0.8	2
45	NIH Consensus Development Conference Statement: Inhaled Nitric-Oxide Therapy for Premature Infants. Pediatrics, 2011, 127, 363-369.	2.1	183
46	Development of ventilatory control in infants. Paediatric Respiratory Reviews, 2010, 11, 199-207.	1.8	64
47	Evaluation and management of pulmonary disease in ataxia-teleangiectasia. Pediatric Pulmonology, 2010, 45, 847-859.	2.0	67
48	Report of two patients with associated conditions in addition to cystic fibrosis. Journal of Cystic Fibrosis, 2010, 9, 269-271.	0.7	4
49	Impaired intracellular calcium homeostasis during acute prolonged severe hypoxia in rat carotid body cells. FASEB Journal, 2010, 24, 1042.6.	0.5	0
50	Time course of alterations in pre- and post-synaptic chemoreceptor function during developmental hyperoxia. Respiratory Physiology and Neurobiology, 2009, 168, 189-197.	1.6	25
51	Heteromeric TASK ₁ /TASK ₃ is the major oxygen-sensitive background K ⁺ channel in rat carotid body glomus cells. Journal of Physiology, 2009, 587, 2963-2975.	2.9	127
52	Fluoresceinated Peanut Agglutinin (PNA) is a Marker for Live O ₂ Sensing Glomus Cells in Rat Carotid Body. Advances in Experimental Medicine and Biology, 2009, 648, 185-190.	1.6	9
53	Developmental Maturation of Chemosensitivity to Hypoxia of Peripheral Arterial Chemoreceptors – Invited Article. Advances in Experimental Medicine and Biology, 2009, 648, 243-255.	1.6	38
54	Time-Dependence of Hyperoxia-Induced Impairment in Peripheral Chemoreceptor Activity and Glomus Cell Calcium Response. Advances in Experimental Medicine and Biology, 2009, 648, 299-306.	1.6	6

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55	Modification of Relative Gene Expression Ratio Obtained from Real Time qPCR with Whole Carotid Body by Using Mathematical Equations. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 125-135.	1.6	0
56	Functional expression of background K ⁺ channels in rat carotid body cells.. <i>FASEB Journal</i> , 2009, 23, .	0.5	0
57	TASK and TREK channels in rat carotid body chemoreceptor cells during postnatal development. <i>FASEB Journal</i> , 2009, 23, 1002.3.	0.5	0
58	Diagnosis of pediatric obstructive sleep disordered breathing: beyond the gold standard. <i>Expert Review of Respiratory Medicine</i> , 2008, 2, 791-809.	2.5	14
59	Postnatal development of carotid body glomus cell response to hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 356-371.	1.6	30
60	Long-term follow-up of oropharyngeal dysphagia in children without apparent risk factors. <i>Pediatric Pulmonology</i> , 2006, 41, 1040-1048.	2.0	94
61	Modulation of Gene Expression in Subfamilies of TASK K ⁺ Channels by Chronic Hyperoxia Exposure in Rat Carotid Body. , 2006, 580, 37-41.		8
62	Postnatal Changes in Gene Expression of Subfamilies of TASK K ⁺ Channels in Rat Carotid Body. , 2006, 580, 43-47.		7
63	Gene expression of TREK K ⁺ channels in rat carotid body (CB). <i>FASEB Journal</i> , 2006, 20, A1230.	0.5	0
64	Left ventricular function in children with sleep-disordered breathing. <i>American Journal of Cardiology</i> , 2005, 95, 801-804.	1.6	201
65	Postnatal development of E-4031-sensitive potassium current in rat carotid chemoreceptor cells. <i>Journal of Applied Physiology</i> , 2005, 98, 1469-1477.	2.5	15
66	Perinatal hyperoxia for 14 days increases nerve conduction time and the acute unitary response to hypoxia of rat carotid body chemoreceptors. <i>Journal of Applied Physiology</i> , 2005, 99, 114-119.	2.5	40
67	Dopamine D2 receptor modulation of carotid body type 1 cell intracellular calcium in developing rats. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 288, L910-L916.	2.9	27
68	Mitochondrial Function and Carotid Body Transduction. <i>High Altitude Medicine and Biology</i> , 2005, 6, 121-132.	0.9	16
69	Postnatal development of carotid body glomus cell O ₂ sensitivity. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 201-215.	1.6	44
70	Neurotransmitters in carotid body development. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 217-232.	1.6	58
71	Twenty-four-hour Ambulatory Blood Pressure in Children with Sleep-disordered Breathing. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 950-956.	5.6	317
72	Apparent life threatening event (ALTE) assessment. <i>Pediatric Pulmonology</i> , 2004, 37, 108-109.	2.0	12

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73	Ca ²⁺ signalling and cortical re-organisation during the transition from meiosis to mitosis in mammalian oocytes. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2004, 115, S61-S67.	1.1	10
74	Obstructive sleep-disordered breathing in children: new controversies, new directions. <i>Clinics in Chest Medicine</i> , 2003, 24, 261-282.	2.1	125
75	Cell Cycle-dependent Regulation of Structure of Endoplasmic Reticulum and Inositol 1,4,5-Trisphosphate-induced Ca ²⁺ Release in Mouse Oocytes and Embryos. <i>Molecular Biology of the Cell</i> , 2003, 14, 288-301.	2.1	78
76	Ca ²⁺ oscillations at fertilization in mammals are regulated by the formation of pronuclei. <i>Development (Cambridge)</i> , 2003, 130, 1461-1472.	2.5	114
77	Differential Changes in Dopamine D ₂ - and D ₁ -Receptor mRNA Levels Induced by Hypoxia in the Arterial Chemoreflex Pathway Organs in One-Day-Old and Adult Rabbits. <i>Neonatology</i> , 2003, 84, 222-231.	2.0	11
78	Invited Review: Developmental plasticity in respiratory control. <i>Journal of Applied Physiology</i> , 2003, 94, 375-389.	2.5	177
79	Calcium wave pacemakers in eggs. <i>Journal of Cell Science</i> , 2002, 115, 3557-3564.	2.0	80
80	Night-to-night variability of polysomnography in children with suspected obstructive sleep apnea. <i>Journal of Pediatrics</i> , 2002, 140, 589-594.	1.8	141
81	The dynamics of plasma membrane PtdIns(4,5)P ₂ at fertilization of mouse eggs. <i>Journal of Cell Science</i> , 2002, 115, 2139-2149.	2.0	60
82	The dynamics of plasma membrane PtdIns(4,5)P(2) at fertilization of mouse eggs. <i>Journal of Cell Science</i> , 2002, 115, 2139-49.	2.0	50
83	The initiation and regulation of Ca ²⁺ signalling at fertilization in mammals. <i>Seminars in Cell and Developmental Biology</i> , 2001, 12, 37-43.	5.0	74
84	Inositol 1,4,5-Trisphosphate Receptors Are Downregulated in Mouse Oocytes in Response to Sperm or Adenophostin A but Not to Increases in Intracellular Ca ²⁺ or Egg Activation. <i>Developmental Biology</i> , 2000, 223, 251-265.	2.0	120
85	Autoreceptor mechanism regulating carotid body dopamine release from adult and 10-day-old rabbits. <i>Respiration Physiology</i> , 2000, 120, 27-34.	2.7	19
86	Postnatal maturation of carotid body and type I cell chemoreception in the rat. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 276, L875-L884.	2.9	40
87	Cardiorespiratory Sleep Studies in Children. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 160, 1381-1387.	5.6	262
88	Resetting and postnatal maturation of oxygen chemosensitivity in rat carotid chemoreceptor cells. <i>Journal of Physiology</i> , 1999, 514, 493-503.	2.9	80
89	Dynamic ventilatory responses in rats: normal development and effects of prenatal nicotine exposure. <i>Respiration Physiology</i> , 1999, 117, 29-40.	2.7	64
90	Expression of dopamine D1-receptor mRNA in the carotid body of adult rabbits, cats and rats. <i>Neuroscience Research</i> , 1998, 31, 147-154.	1.9	35

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91	Sleep-disordered breathing in children with achondroplasia. <i>Journal of Pediatrics</i> , 1998, 132, 667-671.	1.8	90
92	Expression of Inositol 1,4,5-Trisphosphate Receptors in Mouse Oocytes and Early Embryos: The Type I Isoform Is Upregulated in Oocytes and Downregulated after Fertilization. <i>Developmental Biology</i> , 1998, 203, 451-461.	2.0	111
93	Blood Pressure in Children with Obstructive Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1998, 157, 1098-1103.	5.6	400
94	Arousal and ventilatory responses during sleep in children with obstructive sleep apnea. <i>Journal of Applied Physiology</i> , 1998, 84, 1926-1936.	2.5	128
95	High Prevalence of Allergic Sensitization in Children With Habitual Snoring and Obstructive Sleep Apnea. <i>Chest</i> , 1997, 111, 170-173.	0.8	192
96	Consequences of sleep-disordered breathing in childhood. <i>Current Opinion in Pulmonary Medicine</i> , 1997, 3, 456-463.	2.6	69
97	The cardiorespiratory response to anoxia: normal development and the effect of nicotine. <i>Respiration Physiology</i> , 1997, 109, 231-239.	2.7	39
98	Ventral medullary neuronal responses to peripheral chemoreceptor stimulation. <i>Neuroscience</i> , 1996, 73, 989-998.	2.3	20
99	Effect of nicotine exposure on postnatal ventilatory responses to hypoxia and hypercapnia. <i>Respiration Physiology</i> , 1996, 106, 1-11.	2.7	96
100	Sleep-Related Upper-Airway Obstruction in Children and Adolescents. <i>Child and Adolescent Psychiatric Clinics of North America</i> , 1996, 5, 617-648.	1.9	14
101	Polysomnography in the Evaluation of Readiness for Decannulation in Children. <i>JAMA Otolaryngology</i> , 1996, 122, 721-724.	1.2	44
102	Standards and indications for cardiopulmonary sleep studies in children. American Thoracic Society.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1996, 153, 866-878.	5.6	1,165
103	Mechanisms of Carotid Chemoreceptor Resetting after Birth. <i>Advances in Experimental Medicine and Biology</i> , 1996, 410, 73-77.	1.6	4
104	Inability of Clinical History to Distinguish Primary Snoring From Obstructive Sleep Apnea Syndrome in Children. <i>Chest</i> , 1995, 108, 610-618.	0.8	591
105	Supplemental oxygen during sleep in children with sleep-disordered breathing.. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1995, 152, 1297-1301.	5.6	90
106	Ventral medullary surface responses to hypoxic and hyperoxic transient ventilatory challenges in the cat. <i>Life Sciences</i> , 1995, 57, 319-324.	4.3	7
107	Upper airway collapsibility in children with obstructive sleep apnea syndrome. <i>Journal of Applied Physiology</i> , 1994, 77, 918-924.	2.5	228
108	Effects of domperidone on neonatal and adult carotid chemoreceptors in the cat. <i>Journal of Applied Physiology</i> , 1994, 77, 1274-1280.	2.5	25

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109	Afferent contributions to intermediate area of the cat ventral medullary surface during mild hypoxia. <i>Neuroscience Letters</i> , 1994, 178, 73-76.	2.1	14
110	Determinants of growth in children with the obstructive sleep apnea syndrome. <i>Journal of Pediatrics</i> , 1994, 125, 556-562.	1.8	313
111	Polysomnographic characteristics of patients with Rett syndrome. <i>Journal of Pediatrics</i> , 1994, 125, 218-224.	1.8	82
112	Intracellular Calcium Responses to Hypoxia and Cyanide in Cultured Type I Cells from Newborn and Adult Rabbits. <i>Advances in Experimental Medicine and Biology</i> , 1994, 360, 325-328.	1.6	0
113	The Role of Endogenous Dopamine as an Inhibitory Neuromodulator in Neonatal and Adult Carotid Bodies. <i>Advances in Experimental Medicine and Biology</i> , 1994, 360, 321-323.	1.6	1
114	Cardiorespiratory Recordings From Infants Dying Suddenly And Unexpectedly at Home. <i>Pediatrics</i> , 1994, 93, 44-49.	2.1	195
115	Disordered Control of Breathing in Infants and Children. <i>Pediatrics in Review</i> , 1993, 14, 51-65.	0.4	9
116	Respiratory Compromise After Adenotonsillectomy in Children With Obstructive Sleep Apnea. <i>JAMA Otolaryngology</i> , 1992, 118, 940-943.	1.2	335
117	Diagnostic criteria for obstructive sleep apnea syndrome in children. <i>Pediatric Pulmonology</i> , 1992, 14, 71-74.	2.0	119
118	Peripheral chemoreceptor CO ₂ response during hyperoxia in the 14-day-old awake lamb. <i>Respiration Physiology</i> , 1988, 73, 339-349.	2.7	17
119	Hypophosphatemia and Reye's syndrome. <i>Critical Care Medicine</i> , 1985, 13, 480-482.	0.9	4
120	Early pneumococcal sepsis after pulmonary aspiration and the adult respiratory distress syndrome. <i>Critical Care Medicine</i> , 1983, 11, 906-907.	0.9	5