

John L Carroll

List of Publications by Year in descending order

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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	Standards and indications for cardiopulmonary sleep studies in children. American Thoracic Society.. American Journal of Respiratory and Critical Care Medicine, 1996, 153, 866-878.	5.6	1,165
2	Inability of Clinical History to Distinguish Primary Snoring From Obstructive Sleep Apnea Syndrome in Children. Chest, 1995, 108, 610-618.	0.8	591
3	Blood Pressure in Children with Obstructive Sleep Apnea. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 1098-1103.	5.6	400
4	Respiratory Compromise After Adenotonsillectomy in Children With Obstructive Sleep Apnea. JAMA Otolaryngology, 1992, 118, 940-943.	1.2	335
5	Twenty-four-hour Ambulatory Blood Pressure in Children with Sleep-disordered Breathing. American Journal of Respiratory and Critical Care Medicine, 2004, 169, 950-956.	5.6	317
6	Determinants of growth in children with the obstructive sleep apnea syndrome. Journal of Pediatrics, 1994, 125, 556-562.	1.8	313
7	Cardiorespiratory Sleep Studies in Children. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 1381-1387.	5.6	262
8	Upper airway collapsibility in children with obstructive sleep apnea syndrome. Journal of Applied Physiology, 1994, 77, 918-924.	2.5	228
9	Left ventricular function in children with sleep-disordered breathing. American Journal of Cardiology, 2005, 95, 801-804.	1.6	201
10	Cardiorespiratory Recordings From Infants Dying Suddenly And Unexpectedly at Home. Pediatrics, 1994, 93, 44-49.	2.1	195
11	High Prevalence of Allergic Sensitization in Children With Habitual Snoring and Obstructive Sleep Apnea. Chest, 1997, 111, 170-173.	0.8	192
12	NIH Consensus Development Conference Statement: Inhaled Nitric-Oxide Therapy for Premature Infants. Pediatrics, 2011, 127, 363-369.	2.1	183
13	An Official American Thoracic Society Clinical Practice Guideline: Pediatric Chronic Home Invasive Ventilation. American Journal of Respiratory and Critical Care Medicine, 2016, 193, e16-e35.	5.6	180
14	Invited Review: Developmental plasticity in respiratory control. Journal of Applied Physiology, 2003, 94, 375-389.	2.5	177
15	Night-to-night variability of polysomnography in children with suspected obstructive sleep apnea. Journal of Pediatrics, 2002, 140, 589-594.	1.8	141
16	Arousal and ventilatory responses during sleep in children with obstructive sleep apnea. Journal of Applied Physiology, 1998, 84, 1926-1936.	2.5	128
17	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
18	Obstructive sleep-disordered breathing in children: new controversies, new directions. Clinics in Chest Medicine, 2003, 24, 261-282.	2.1	125

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19	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
20	Diagnostic criteria for obstructive sleep apnea syndrome in children. <i>Pediatric Pulmonology</i> , 1992, 14, 71-74.	2.0	119
21	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
22	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
23	Effect of nicotine exposure on postnatal ventilatory responses to hypoxia and hypercapnia. <i>Respiration Physiology</i> , 1996, 106, 1-11.	2.7	96
24	Long-term follow-up of oropharyngeal dysphagia in children without apparent risk factors. <i>Pediatric Pulmonology</i> , 2006, 41, 1040-1048.	2.0	94
25	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
26	Sleep-disordered breathing in children with achondroplasia. <i>Journal of Pediatrics</i> , 1998, 132, 667-671.	1.8	90
27	Polysomnographic characteristics of patients with Rett syndrome. <i>Journal of Pediatrics</i> , 1994, 125, 218-224.	1.8	82
28	Resetting and postnatal maturation of oxygen chemosensitivity in rat carotid chemoreceptor cells. <i>Journal of Physiology</i> , 1999, 514, 493-503.	2.9	80
29	Calcium wave pacemakers in eggs. <i>Journal of Cell Science</i> , 2002, 115, 3557-3564.	2.0	80
30	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
31	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
32	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
33	Consequences of sleep-disordered breathing in childhood. <i>Current Opinion in Pulmonary Medicine</i> , 1997, 3, 456-463.	2.6	69
34	Evaluation and management of pulmonary disease in ataxia-telangiectasia. <i>Pediatric Pulmonology</i> , 2010, 45, 847-859.	2.0	67
35	Dynamic ventilatory responses in rats: normal development and effects of prenatal nicotine exposure. <i>Respiration Physiology</i> , 1999, 117, 29-40.	2.7	64
36	Development of ventilatory control in infants. <i>Paediatric Respiratory Reviews</i> , 2010, 11, 199-207.	1.8	64

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37	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
38	Neurotransmitters in carotid body development. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 217-232.	1.6	58
39	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
40	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
41	The Impact of Technology Dependence on Children and Their Families. <i>Journal of Pediatric Health Care</i> , 2013, 27, 451-459.	1.2	47
42	Polysomnography in the Evaluation of Readiness for Decannulation in Children. <i>JAMA Otolaryngology</i> , 1996, 122, 721-724.	1.2	44
43	Postnatal development of carotid body glomus cell O ₂ sensitivity. <i>Respiratory Physiology and Neurobiology</i> , 2005, 149, 201-215.	1.6	44
44	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
45	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
46	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
47	The cardiorespiratory response to anoxia: normal development and the effect of nicotine. <i>Respiration Physiology</i> , 1997, 109, 231-239.	2.7	39
48	Developmental Maturation of Chemosensitivity to Hypoxia of Peripheral Arterial Chemoreceptors – Invited Article. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 243-255.	1.6	38
49	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
50	Reference gene validation for qPCR in rat carotid body during postnatal development. <i>BMC Research Notes</i> , 2011, 4, 440.	1.4	35
51	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
52	Pre-Vent: the prematurity-related ventilatory control study. <i>Pediatric Research</i> , 2019, 85, 769-776.	2.3	33
53	Carotid chemoreceptor resetting revisited. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 30-43.	1.6	31
54	Postnatal development of carotid body glomus cell response to hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2006, 154, 356-371.	1.6	30

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55	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
56	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
57	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
58	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
59	Time course of alterations in pre- and post-synaptic chemoreceptor function during developmental hyperoxia. <i>Respiratory Physiology and Neurobiology</i> , 2009, 168, 189-197.	1.6	25
60	Periodic Limb Movements during Sleep in Children with Narcolepsy. <i>Journal of Clinical Sleep Medicine</i> , 2011, 07, 597-601.	2.6	22
61	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
62	Transition of respiratory technology dependent patients from pediatric to adult pulmonology care. <i>Pediatric Pulmonology</i> , 2015, 50, 1294-1300.	2.0	21
63	Ventral medullary neuronal responses to peripheral chemoreceptor stimulation. <i>Neuroscience</i> , 1996, 73, 989-998.	2.3	20
64	Recovery of carotid body O ₂ sensitivity following chronic postnatal hyperoxia in rats. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 47-55.	1.6	20
65	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
66	Changes in oxygen sensitivity of TASK in carotid body glomus cells during early postnatal development. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 228-235.	1.6	18
67	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
68	Hydrogen sulfide and hypoxia-induced changes in TASK (K ₂ P3/9) 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
69	Mitochondrial Function and Carotid Body Transduction. <i>High Altitude Medicine and Biology</i> , 2005, 6, 121-132.	0.9	16
70	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
71	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
72	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

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73	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
74	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
75	Characterization of an ATP-sensitive K ⁺ channel in rat carotid body glomus cells. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 247-255.	1.6	14
76	Apparent life threatening event (ALTE) assessment. <i>Pediatric Pulmonology</i> , 2004, 37, 108-109.	2.0	12
77	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
78	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
79	Respiratory defects in the <i>Crtp</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
80	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
81	Assessing ventilatory instability using the response to spontaneous sighs during sleep in preterm infants. <i>Sleep</i> , 2018, 41, .	1.1	10
82	Disordered Control of Breathing in Infants and Children. <i>Pediatrics in Review</i> , 1993, 14, 51-65.	0.4	9
83	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
84	Fluoresceinated Peanut Agglutinin (PNA) is a Marker for Live O ₂ Sensing Glomus Cells in Rat Carotid Body. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 185-190.	1.6	9
85	Purinerbic 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
86	Transition From an ICU Ventilator to a Portable Home Ventilator in Children. <i>Respiratory Care</i> , 2020, 65, respcare.07641.	1.6	8
87	Modulation of Gene Expression in Subfamilies of TASK K ⁺ Channels by Chronic Hyperoxia Exposure in Rat Carotid Body. , 2006, 580, 37-41.		8
88	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
89	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
90	Postnatal Changes in Gene Expression of Subfamilies of TASK K ⁺ Channels in Rat Carotid Body. , 2006, 580, 43-47.		7

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91	Possible Role of TRP Channels in Rat Glomus Cells. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 227-232.	1.6	7
92	Role of MaxiK-type calcium dependent K ⁺ channels in rat carotid body hypoxia transduction during postnatal development. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 1-8.	1.6	6
93	Time-Dependence of Hyperoxia-Induced Impairment in Peripheral Chemoreceptor Activity and Glomus Cell Calcium Response. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 299-306.	1.6	6
94	Early pneumococcal sepsis after pulmonary aspiration and the adult respiratory distress syndrome. <i>Critical Care Medicine</i> , 1983, 11, 906-907.	0.9	5
95	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
96	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
97	Hypophosphatemia and Reye's syndrome. <i>Critical Care Medicine</i> , 1985, 13, 480-482.	0.9	4
98	Report of two patients with associated conditions in addition to cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2010, 9, 269-271.	0.7	4
99	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
100	Mechanisms of Carotid Chemoreceptor Resetting after Birth. <i>Advances in Experimental Medicine and Biology</i> , 1996, 410, 73-77.	1.6	4
101	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
102	<i>Respiratory Physiology and Pathophysiology During Sleep.</i> , 2014, , 179-194.		3
103	Chronic Lung Disease of Childhood: Control of Breathing During Wake and Sleep. <i>Pediatric, Allergy, Immunology, and Pulmonology</i> , 2011, 24, 39-43.	0.8	2
104	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
105	High-Quality Pediatric Spirometry Via Telemedicine. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, AB103.	2.9	1
106	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
107	Foreword. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 1-2.	1.6	0
108	Peanuts. <i>Clinical Pediatrics</i> , 2015, 54, 393-395.	0.8	0

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109	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
110	Control of Breathing During Sleep and Wakefulness in the Fetus, Newborn, and Child. , 2021, , 19-31.		0
111	Gene expression of TREK K+ channels in rat carotid body (CB). <i>FASEB Journal</i> , 2006, 20, A1230.	0.5	0
112	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
113	Functional expression of background K+ channels in rat carotid body cells.. <i>FASEB Journal</i> , 2009, 23, .	0.5	0
114	TASK and TREK channels in rat carotid body chemoreceptor cells during postnatal development. <i>FASEB Journal</i> , 2009, 23, 1002.3.	0.5	0
115	Impaired intracellular calcium homeostasis during acute prolonged severe hypoxia in rat carotid body cells. <i>FASEB Journal</i> , 2010, 24, 1042.6.	0.5	0
116	Chemoreceptors, Breathing, and Sleep. , 2012, , 133-151.		0
117	NAD(P)H autofluorescence induction by Compound C in rat carotid chemoreceptor cells. <i>FASEB Journal</i> , 2013, 27, 1137.29.	0.5	0
118	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
119	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
120	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