

James Duffin

List of Publications by Year in descending order

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Version: 2024-02-01

263
papers

8,543
citations

41258

49
h-index

71532

76
g-index

429
all docs

429
docs citations

429
times ranked

4512
citing authors

#	ARTICLE	IF	CITATIONS
1	The Physiological Basis of Cerebrovascular Measurements. <i>Neuromethods</i> , 2022, , 1-18.	0.2	1
2	Does breathing pattern affect cerebrovascular reactivity?. <i>Experimental Physiology</i> , 2022, 107, 183-191.	0.9	0
3	Assessing Cerebrovascular Resistance in Patients With Sickle Cell Disease. <i>Frontiers in Physiology</i> , 2022, 13, 847969.	1.3	3
4	A physiology-based mathematical model for the selection of appropriate ventilator controls for lung and diaphragm protection. <i>Journal of Clinical Monitoring and Computing</i> , 2021, 35, 363-378.	0.7	7
5	A Promising Subject-Level Classification Model for Acute Concussion Based on Cerebrovascular Reactivity Metrics. <i>Journal of Neurotrauma</i> , 2021, 38, 1036-1047.	1.7	12
6	The value of a shorter-delay arterial spin labeling protocol for detecting cerebrovascular impairment. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 608-619.	1.1	5
7	Control of Cerebral Blood Flow by Blood Gases. <i>Frontiers in Physiology</i> , 2021, 12, 640075.	1.3	19
8	The Reproducibility of Cerebrovascular Reactivity Across MRI Scanners. <i>Frontiers in Physiology</i> , 2021, 12, 668662.	1.3	11
9	The Effect of CO2 on Resting-State Functional Connectivity: Isocapnia vs. Poikilocapnia. <i>Frontiers in Physiology</i> , 2021, 12, 639782.	1.3	2
10	Normal BOLD Response to a Step CO2 Stimulus After Correction for Partial Volume Averaging. <i>Frontiers in Physiology</i> , 2021, 12, 639360.	1.3	0
11	Differential regional cerebral blood flow reactivity to alterations in end-tidal gases in healthy volunteers. <i>Canadian Journal of Anaesthesia</i> , 2021, 68, 1497-1506.	0.7	4
12	Measuring Cerebrovascular Reactivity: Sixteen Avoidable Pitfalls. <i>Frontiers in Physiology</i> , 2021, 12, 665049.	1.3	8
13	Editorial: Imaging Cerebrovascular Reactivity: Physiology, Physics and Therapy. <i>Frontiers in Physiology</i> , 2021, 12, 740792.	1.3	1
14	Perfusion MRI using endogenous deoxyhemoglobin as a contrast agent: Preliminary data. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 3012-3021.	1.9	17
15	A mathematical model of cerebral blood flow control in anaemia and hypoxia. <i>Journal of Physiology</i> , 2020, 598, 717-730.	1.3	23
16	Cerebrovascular Reactivity Assays Collateral Function in Carotid Stenosis. <i>Frontiers in Physiology</i> , 2020, 11, 1031.	1.3	10
17	Accelerated ethanol elimination via the lungs. <i>Scientific Reports</i> , 2020, 10, 19249.	1.6	1
18	Fail-safe aspects of oxygen supply. <i>Journal of Physiology</i> , 2020, 598, 4859-4867.	1.3	5

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19	Hypercapnia During Wakefulness Attenuates Ventricular Ectopy. <i>Circulation: Heart Failure</i> , 2020, 13, e006837.	1.6	2
20	Slowed Temporal and Parietal Cerebrovascular Response in Patients with Alzheimer's Disease. <i>Canadian Journal of Neurological Sciences</i> , 2020, 47, 366-373.	0.3	18
21	Sickle Cell Cerebrovascular Reactivity to a CO2 Stimulus Is Both Too Little and Too Slow. <i>Blood</i> , 2020, 136, 55-55.	0.6	1
22	Measuring Peripheral Chemoreflex Hypersensitivity in Heart Failure. <i>Frontiers in Physiology</i> , 2020, 11, 595486.	1.3	12
23	Simultaneous assessment of central and peripheral chemoreflex regulation of muscle sympathetic nerve activity and ventilation in healthy young men. <i>Journal of Physiology</i> , 2019, 597, 3281-3296.	1.3	48
24	Cerebrovascular Resistance in Healthy Aging and Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 79.	1.7	23
25	Impact of Graded Passive Cycling on Hemodynamics, Brain, and Heart Perfusion in Healthy Adults. <i>Frontiers in Medicine</i> , 2019, 6, 186.	1.2	4
26	The effect of acute morphine on obstructive sleep apnoea: a randomised double-blind placebo-controlled crossover trial. <i>Thorax</i> , 2019, 74, 177-184.	2.7	29
27	Improved White Matter Cerebrovascular Reactivity after Revascularization in Patients with Steno-Occlusive Disease. <i>American Journal of Neuroradiology</i> , 2019, 40, 45-50.	1.2	21
28	Comparative Assessment of Central and Peripheral Chemoreceptor Reflex Regulation of Muscle Sympathetic Nerve Activity and Ventilation. <i>FASEB Journal</i> , 2019, 33, 560.2.	0.2	0
29	Measurement of Cerebrovascular Reactivity as Blood Oxygen Level-Dependent Magnetic Resonance Imaging Signal Response to a Hypercapnic Stimulus in Mechanically Ventilated Patients. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 301-308.	0.7	16
30	Evaluation of Cerebrovascular Reactivity in Subjects with and without Obstructive Sleep Apnea. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018, 27, 162-168.	0.7	14
31	Long-term changes in cerebrovascular reactivity following EC-IC bypass for intracranial steno-occlusive disease. <i>Journal of Clinical Neuroscience</i> , 2018, 54, 77-82.	0.8	9
32	Patient-Specific Alterations in CO2 Cerebrovascular Responsiveness in Acute and Sub-Acute Sports-Related Concussion. <i>Frontiers in Neurology</i> , 2018, 9, 23.	1.1	43
33	Importance of Collateralization in Patients With Large Artery Intracranial Occlusive Disease: Long-Term Longitudinal Assessment of Cerebral Hemodynamic Function. <i>Frontiers in Neurology</i> , 2018, 9, 226.	1.1	8
34	The aging brain and cerebrovascular reactivity. <i>NeuroImage</i> , 2018, 181, 132-141.	2.1	53
35	Cerebrovascular Resistance: The Basis of Cerebrovascular Reactivity. <i>Frontiers in Neuroscience</i> , 2018, 12, 409.	1.4	33
36	Assessing cerebrovascular reactivity by the pattern of response to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017, 38, 3415-3427.	1.9	41

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37	A non-invasive magnetic resonance imaging approach for assessment of real-time microcirculation dynamics. <i>Scientific Reports</i> , 2017, 7, 7468.	1.6	17
38	The role of vascular resistance in BOLD responses to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017, 38, 5590-5602.	1.9	31
39	A Novel Stress-Diathesis Model to Predict Risk of Post-operative Delirium: Implications for Intra-operative Management. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 274.	1.7	18
40	Neuroimaging Assessment of Cerebrovascular Reactivity in Concussion: Current Concepts, Methodological Considerations, and Review of the Literature. <i>Frontiers in Neurology</i> , 2016, 7, 61.	1.1	76
41	Longitudinal Brain Magnetic Resonance Imaging CO ₂ Stress Testing in Individual Adolescent Sports-Related Concussion Patients: A Pilot Study. <i>Frontiers in Neurology</i> , 2016, 7, 107.	1.1	32
42	and T ₁ assessment of abdominal tissue response to graded hypoxia and hypercapnia using a controlled gas mixing circuit for small animals. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 305-316.	1.9	17
43	Relationship between retinal blood flow and arterial oxygen. <i>Journal of Physiology</i> , 2016, 594, 625-640.	1.3	31
44	Sequential gas delivery provides precise control of alveolar gas exchange. <i>Respiratory Physiology and Neurobiology</i> , 2016, 225, 60-69.	0.7	40
45	Clamping end-tidal carbon dioxide during graded exercise with control of inspired oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2016, 231, 28-36.	0.7	4
46	Impaired dynamic cerebrovascular response to hypercapnia predicts development of white matter hyperintensities. <i>NeuroImage: Clinical</i> , 2016, 11, 796-801.	1.4	41
47	MRI-based cerebrovascular reactivity using transfer function analysis reveals temporal group differences between patients with sickle cell disease and healthy controls. <i>NeuroImage: Clinical</i> , 2016, 12, 624-630.	1.4	25
48	Development of White Matter Hyperintensity Is Preceded by Reduced Cerebrovascular Reactivity. <i>Annals of Neurology</i> , 2016, 80, 277-285.	2.8	87
49	Vascular Dysfunction in Leukoaraiosis. <i>American Journal of Neuroradiology</i> , 2016, 37, 2258-2264.	1.2	34
50	Cerebrovascular reactivity and white matter integrity. <i>Neurology</i> , 2016, 87, 2333-2339.	1.5	39
51	Identifying Significant Changes in Cerebrovascular Reactivity to Carbon Dioxide. <i>American Journal of Neuroradiology</i> , 2016, 37, 818-824.	1.2	45
52	Brain magnetic resonance imaging CO ₂ stress testing in adolescent postconcussion syndrome. <i>Journal of Neurosurgery</i> , 2016, 125, 648-660.	0.9	69
53	Limb movement frequency is a significant modulator of the ventilatory response during submaximal cycling exercise in humans. <i>Respiratory Physiology and Neurobiology</i> , 2016, 220, 10-16.	0.7	10
54	Oxygen dissociation curves in altitude and sea-level residents. <i>Experimental Physiology</i> , 2015, 100, 341-341.	0.9	0

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55	Non-invasive measurement of cardiac output using an iterative, respiration-based method. <i>British Journal of Anaesthesia</i> , 2015, 114, 406-413.	1.5	4
56	The dynamics of cerebrovascular reactivity shown with transfer function analysis. <i>NeuroImage</i> , 2015, 114, 207-216.	2.1	73
57	Measuring Cerebrovascular Reactivity: The Dynamic Response to a Step Hypercapnic Stimulus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1746-1756.	2.4	88
58	Assessing Cerebrovascular Reactivity Abnormality by Comparison to a Reference Atlas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 213-220.	2.4	79
59	Comparing the effect of hypercapnia and hypoxia on the electroencephalogram during wakefulness. <i>Clinical Neurophysiology</i> , 2015, 126, 103-109.	0.7	43
60	AltitudeOmicS: Resetting of Cerebrovascular CO ₂ Reactivity Following Acclimatization to High Altitude. <i>Frontiers in Physiology</i> , 2015, 6, 394.	1.3	9
61	Rates of carbon monoxide elimination in males and females. <i>Physiological Reports</i> , 2014, 2, e12237.	0.7	20
62	The fast exercise drive to breathe. <i>Journal of Physiology</i> , 2014, 592, 445-451.	1.3	23
63	Factors affecting the determination of cerebrovascular reactivity. <i>Brain and Behavior</i> , 2014, 4, 775-788.	1.0	57
64	Circadian cerebrovascular reactivity to CO ₂ . <i>Respiratory Physiology and Neurobiology</i> , 2014, 197, 15-18.	0.7	10
65	Normal hypercapnic cerebrovascular conductance in obstructive sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2014, 190, 47-53.	0.7	9
66	A conceptual model for CO ₂ -induced redistribution of cerebral blood flow with experimental confirmation using BOLD MRI. <i>NeuroImage</i> , 2014, 92, 56-68.	2.1	126
67	From the Journal archives: Assessing the effect of anesthetic agents on the respiratory chemoreflex control of breathing. <i>Canadian Journal of Anaesthesia</i> , 2014, 61, 664-670.	0.7	0
68	Non-invasive accurate measurement of arterial PCO ₂ in a pediatric animal model. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 147-155.	0.7	13
69	Measuring cerebrovascular reactivity: what stimulus to use?. <i>Journal of Physiology</i> , 2013, 591, 5809-5821.	1.3	248
70	Postoperative hypercapnia-induced hyperpnoea accelerates recovery from sevoflurane anaesthesia: a prospective randomised controlled trial. <i>Acta Anaesthesiologica Scandinavica</i> , 2013, 57, 623-630.	0.7	14
71	The in-vivo oxyhaemoglobin dissociation curve at sea level and high altitude. <i>Respiratory Physiology and Neurobiology</i> , 2013, 186, 45-52.	0.7	38
72	Unknown in vivo factors influencing the oxygen dissociation curve?. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 81.	0.7	1

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73	Foreword. <i>Respiratory Physiology and Neurobiology</i> , 2013, 188, 231-232.	0.7	0
74	Model Validation and Control Issues in the Respiratory System. <i>Lecture Notes in Mathematics</i> , 2013, , 133-162.	0.1	3
75	Rebuttal from James Duffin and Jason H. Mateika. <i>Journal of Physiology</i> , 2013, 591, 4363-4363.	1.3	3
76	CrossTalk opposing view: Peripheral and central chemoreflexes have additive effects on ventilation in humans. <i>Journal of Physiology</i> , 2013, 591, 4351-4353.	1.3	33
77	Instability of the Middle Cerebral Artery Blood Flow in Response to CO ₂ . <i>PLoS ONE</i> , 2013, 8, e70751.	1.1	16
78	Cerebral Oxygen Saturation: Graded Response to Carbon Dioxide with Isoxia and Graded Response to Oxygen with Isocapnia. <i>PLoS ONE</i> , 2013, 8, e57881.	1.1	18
79	Changes in exercise hyperpnea are more attributable to limb movement frequency than pedal loading. <i>FASEB Journal</i> , 2013, 27, lb869.	0.2	0
80	Increased Carbon Monoxide Clearance during Exercise in Humans. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 2118-2124.	0.2	21
81	Response to letter from Teppema and Berendsen concerning Fan <i>et al.</i> (2012): Acetazolamide and cerebrovascular function at high altitude™. <i>Journal of Physiology</i> , 2012, 590, 3623-3623.	1.3	1
82	The interaction of carbon dioxide and hypoxia in the control of cerebral blood flow. <i>Pflugers Archiv European Journal of Physiology</i> , 2012, 464, 345-351.	1.3	58
83	Approaches to Brain Stress Testing: BOLD Magnetic Resonance Imaging with Computer-Controlled Delivery of Carbon Dioxide. <i>PLoS ONE</i> , 2012, 7, e47443.	1.1	41
84	Central-peripheral respiratory chemoreflex interaction in humans. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 126-131.	0.7	33
85	Commentaries on Viewpoint: Initiating inspiration outside the medulla does produce eupneic breathing. <i>Journal of Applied Physiology</i> , 2011, 110, 857-858.	1.2	1
86	Increased lung clearance of isoflurane shortens emergence in obesity: a prospective randomized-controlled trial. <i>Acta Anaesthesiologica Scandinavica</i> , 2011, 55, 995-1001.	0.7	14
87	Phenotyping interindividual variability in obstructive sleep apnoea response to temazepam using ventilatory chemoreflexes during wakefulness. <i>Journal of Sleep Research</i> , 2011, 20, 526-532.	1.7	45
88	The cerebrovascular response to carbon dioxide in humans. <i>Journal of Physiology</i> , 2011, 589, 3039-3048.	1.3	233
89	Rapid elimination of CO through the lungs: coming full circle 100 years on. <i>Experimental Physiology</i> , 2011, 96, 1262-1269.	0.9	22
90	Measuring the respiratory chemoreflexes in humans. <i>Respiratory Physiology and Neurobiology</i> , 2011, 177, 71-79.	0.7	96

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91	Respiratory, cerebrovascular and cardiovascular responses to isocapnic hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2011, 179, 259-268.	0.7	14
92	End-inspiratory rebreathing reduces the end-tidal to arterial PCO ₂ gradient in mechanically ventilated pigs. <i>Intensive Care Medicine</i> , 2011, 37, 1543-1550.	3.9	28
93	The effects of continuous positive airway pressure (CPAP) on the metabolic cost and work of breathing at rest, and during exercise, in healthy individuals wearing a gas mask. <i>FASEB Journal</i> , 2011, 25, 1055.3.	0.2	0
94	The role of the central chemoreceptors: A modeling perspective. <i>Respiratory Physiology and Neurobiology</i> , 2010, 173, 230-243.	0.7	50
95	Differences in the control of breathing between Himalayan and sea-level residents. <i>Journal of Physiology</i> , 2010, 588, 1591-1606.	1.3	21
96	Differences in the control of breathing between Andean highlanders and lowlanders after 10 days acclimatization at 3850 m. <i>Journal of Physiology</i> , 2010, 588, 1607-1621.	1.3	19
97	Identification of a Novel Form of Noradrenergic-Dependent Respiratory Motor Plasticity Triggered by Vagal Feedback. <i>Journal of Neuroscience</i> , 2010, 30, 16886-16895.	1.7	24
98	Measuring the Hypoxic Ventilatory Response. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 221-224.	0.8	1
99	Repeated Obstructive Apneas Induce Long-term Facilitation of Genioglossus Muscle Tone. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 297-301.	0.8	9
100	Hypoventilation and Hyperventilation Syndromes. , 2010, , 1859-1880.		3
101	Integration of cerebrovascular CO ₂ reactivity and chemoreflex control of breathing: mechanisms of regulation, measurement, and interpretation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R1473-R1495.	0.9	462
102	A simple and portable breathing circuit designed for ventilatory muscle endurance training (VMET). <i>Respiratory Medicine</i> , 2009, 103, 1822-1827.	1.3	0
103	Decreased chemosensitivity and improvement of sleep apnea by nocturnal hemodialysis. <i>Sleep Medicine</i> , 2009, 10, 47-54.	0.8	53
104	Non-invasive prospective targeting of arterial P_{aO_2} in subjects at rest. <i>Journal of Physiology</i> , 2008, 586, 3675-3682.	1.3	131
105	Intermittent Hypoxia Induces Respiratory Long-Term Facilitation in Postnatal Rats. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 233-238.	0.8	3
106	Physiological mechanisms of hyperventilation during human pregnancy. <i>Respiratory Physiology and Neurobiology</i> , 2008, 161, 76-86.	0.7	55
107	Frequency of movements and respiratory control in exercise. <i>Respiratory Physiology and Neurobiology</i> , 2008, 161, 221-222.	0.7	1
108	Pacemakers handshake synchronization mechanism of mammalian respiratory rhythmogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18000-18005.	3.3	61

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109	Respiratory Muscle Training and the Performance of a Simulated Anti-G Straining Maneuver. <i>Aviation, Space, and Environmental Medicine</i> , 2007, 78, 1035-1041.	0.6	10
110	Long-term facilitation of breathing is absent after episodes of hypercapnic hypoxia in awake humans. <i>Respiratory Physiology and Neurobiology</i> , 2007, 156, 132-136.	0.7	18
111	The ventilatory response to sine wave variation in exercise loads and limb movement frequency. <i>Respiratory Physiology and Neurobiology</i> , 2007, 158, 45-50.	0.7	15
112	Prospective targeting and control of end-tidal CO ₂ and O ₂ concentrations. <i>Journal of Physiology</i> , 2007, 581, 1207-1219.	1.3	268
113	Inspiratory activation is not required for episodic hypoxia-induced respiratory long-term facilitation in postnatal rats. <i>Journal of Physiology</i> , 2007, 585, 593-606.	1.3	15
114	Measuring the ventilatory response to hypoxia. <i>Journal of Physiology</i> , 2007, 584, 285-293.	1.3	95
115	Enhanced chemo-responsiveness in patients with sleep apnoea and end-stage renal disease. <i>European Respiratory Journal</i> , 2006, 28, 151-158.	3.1	115
116	Transmission of respiratory rhythm: Midline-crossing connections at the level of the phrenic motor nucleus?. <i>Respiratory Physiology and Neurobiology</i> , 2006, 153, 139-147.	0.7	15
117	Rapid increases in ventilation accompany the transition from passive to active movement. <i>Respiratory Physiology and Neurobiology</i> , 2006, 152, 128-142.	0.7	31
118	The initial phase of exercise hyperpnoea in humans is depressed during a cognitive task. <i>Experimental Physiology</i> , 2005, 90, 357-365.	0.9	20
119	Effects of concurrent inspiratory and expiratory muscle training on respiratory and exercise performance in competitive swimmers. <i>European Journal of Applied Physiology</i> , 2005, 94, 527-540.	1.2	91
120	Modelling the Respiratory Chemoreflex Control of Acid-Base Balance. , 2005, 2005, 5836-9.		2
121	Role of acid-base balance in the chemoreflex control of breathing. <i>Journal of Applied Physiology</i> , 2005, 99, 2255-2265.	1.2	93
122	Changes in respiratory control after 5 days at altitude. <i>Respiratory Physiology and Neurobiology</i> , 2005, 145, 41-52.	0.7	32
123	Overnight changes of chemoreflex control in obstructive sleep apnoea patients. <i>Respiratory Physiology and Neurobiology</i> , 2005, 146, 279-290.	0.7	34
124	Functional organization of respiratory neurones: a brief review of current questions and speculations. <i>Experimental Physiology</i> , 2004, 89, 517-529.	0.9	65
125	Anxiety sensitivity as a predictor of panic attacks. <i>Psychiatry Research</i> , 2004, 129, 273-278.	1.7	16
126	Cardio-respiratory measures following isocapnic voluntary hyperventilation. <i>Respiratory Physiology and Neurobiology</i> , 2004, 142, 13-25.	0.7	5

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127	Developmental changes in transmission of respiratory rhythm in the rat. <i>Respiratory Physiology and Neurobiology</i> , 2004, 142, 153-163.	0.7	9
128	The effects of carbon monoxide on respiratory chemoreflexes in humans. <i>Environmental Research</i> , 2004, 94, 227-233.	3.7	6
129	Epidural Catheter Penetration of Human Dural Tissue. <i>Anesthesiology</i> , 2004, 100, 1491-1496.	1.3	14
130	Respiratory response to passive limb movement is suppressed by a cognitive task. <i>Journal of Applied Physiology</i> , 2004, 97, 2112-2120.	1.2	24
131	The respiratory effects of two modes of passive exercise. <i>European Journal of Applied Physiology</i> , 2003, 88, 544-552.	1.2	31
132	Inhibitory connections among rostral medullary expiratory neurones detected with cross-correlation in the decerebrate rat*. <i>Pflügers Archiv European Journal of Physiology</i> , 2003, 446, 365-372.	1.3	21
133	Connections between respiratory neurones in the neonatal rat transverse medullary slice studied with cross-correlation. <i>Journal of Physiology</i> , 2003, 549, 327-332.	1.3	19
134	A commentary on eupnoea and gasping. <i>Respiratory Physiology and Neurobiology</i> , 2003, 139, 105-111.	0.7	22
135	Adaptation in the respiratory control system. <i>Canadian Journal of Physiology and Pharmacology</i> , 2003, 81, 765-773.	0.7	41
136	Dural Tissue Trauma and Cerebrospinal Fluid Leak after Epidural Needle Puncture. <i>Anesthesiology</i> , 2003, 99, 1376-1382.	1.3	46
137	CO ₂ does not affect passive exercise ventilatory decline. <i>Journal of Applied Physiology</i> , 2003, 95, 322-329.	1.2	12
138	Changes in respiratory control after three hours of isocapnic hypoxia in humans. <i>Journal of Physiology</i> , 2003, 547, 271-281.	1.3	30
139	Cerebral blood flow responses to changes in oxygen and carbon dioxide in humans. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002, 80, 819-827.	0.7	32
140	Acetazolamide and respiratory chemosensitivity to CO ₂ in the neonatal rat transverse medullary slice. <i>Respiratory Physiology and Neurobiology</i> , 2002, 132, 279-287.	0.7	5
141	Effects of tryptophan depletion on central and peripheral chemoreflexes in man. <i>Respiratory Physiology and Neurobiology</i> , 2002, 133, 183-195.	0.7	13
142	Respiratory pre-motor control of hypoglossal motoneurons in the rat. <i>Neuroscience</i> , 2002, 110, 711-722.	1.1	76
143	Central and peripheral chemoreflexes in panic disorder. <i>Psychiatry Research</i> , 2002, 113, 181-192.	1.7	25
144	The Ventilatory Response to Cholecystokinin Tetrapeptide in Healthy Volunteers. <i>Neuropsychopharmacology</i> , 2002, 26, 824-831.	2.8	6

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145	Bilateral coordination of inspiratory neurones in the rat. Pflugers Archiv European Journal of Physiology, 2002, 443, 829-835.	1.3	10
146	Caudal expiratory neurones in the rat. Pflugers Archiv European Journal of Physiology, 2002, 444, 405-410.	1.3	10
147	Central and Peripheral Chemoreflex Characteristics: Panic Disorder Patients VS. Healthy Volunteers. Advances in Experimental Medicine and Biology, 2001, 499, 435-437.	0.8	2
148	The Control of Breathing at Rest. Advances in Experimental Medicine and Biology, 2001, 499, 431-433.	0.8	1
149	Simulation of the Respiratory Control System. Advances in Experimental Medicine and Biology, 2001, 499, 315-320.	0.8	0
150	Respiratory Control of Hypoglossal Motoneurons. Advances in Experimental Medicine and Biology, 2001, 499, 101-106.	0.8	7
151	Modeling Respiratory Adaptations in Humans. Advances in Experimental Medicine and Biology, 2001, 499, 241-245.	0.8	1
152	Nucleus raphae obscurus modulates hypoglossal output of neonatal rat in vitro transverse brain stem slices. Journal of Applied Physiology, 2001, 90, 269-279.	1.2	29
153	Respiratory control of hypoglossal motoneurons in the rat. Pflugers Archiv European Journal of Physiology, 2001, 442, 78-86.	1.3	56
154	Bilateral synchronisation of respiratory motor output in rats: adult versus neonatal in vitro preparations. Pflugers Archiv European Journal of Physiology, 2001, 442, 943-951.	1.3	15
155	The Contribution of Chemoreflex Drives to Resting Breathing in Man. Experimental Physiology, 2001, 86, 109-116.	0.9	34
156	Repeated hypoxic exposures change respiratory chemoreflex control in humans. Journal of Physiology, 2001, 534, 595-603.	1.3	69
157	Simulation of cross-correlograms resulting from synaptic connections between neurons. Journal of Neuroscience Methods, 2000, 99, 65-70.	1.3	7
158	Changes in Chemoreflex Characteristics Following Acute Carbonic Anhydrase Inhibition in Humans at Rest. Experimental Physiology, 2000, 85, 847-856.	0.9	9
159	Circadian rhythms in the chemoreflex control of breathing. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 278, R282-R286.	0.9	58
160	Changes in chemoreflex characteristics following acute carbonic anhydrase inhibition in humans at rest. Experimental Physiology, 2000, 85, 847-856.	0.9	6
161	A model of the chemoreflex control of breathing in humans: model parameters measurement. Respiration Physiology, 2000, 120, 13-26.	2.8	177
162	Functional synaptic connections among respiratory neurons. Respiration Physiology, 2000, 122, 237-246.	2.8	26

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163	Changes in chemoreflex characteristics following acute carbonic anhydrase inhibition in humans at rest. <i>Experimental Physiology</i> , 2000, 85, 847-56.	0.9	16
164	BÄrtzinger-complex, bulbospinal expiratory neurones monosynaptically inhibit ventral-group respiratory neurones in the decerebrate rat. <i>Experimental Brain Research</i> , 1999, 124, 173-180.	0.7	49
165	Mutual inhibition between BÄrtzinger-complex bulbospinal expiratory neurons detected with cross-correlation in the decerebrate rat. <i>Experimental Brain Research</i> , 1999, 125, 440-446.	0.7	18
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