

James Duffin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

261
papers

6,960
citations

45
h-index

69
g-index

429
ext. papers

7,751
ext. citations

3.8
avg. IF

5.99
L-index

#	Paper	IF	Citations
261	The Physiological Basis of Cerebrovascular Measurements. <i>Neuromethods</i> , 2022 , 1-18	0.4	0
260	Assessing Cerebrovascular Resistance in Patients With Sickle Cell Disease.. <i>Frontiers in Physiology</i> , 2022 , 13, 847969	4.6	1
259	Perfusion MRI using endogenous deoxyhemoglobin as a contrast agent: Preliminary data. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 3012-3021	4.4	1
258	The Reproducibility of Cerebrovascular Reactivity Across MRI Scanners. <i>Frontiers in Physiology</i> , 2021 , 12, 668662	4.6	2
257	The Effect of CO on Resting-State Functional Connectivity: Isocapnia vs. Poikilocapnia. <i>Frontiers in Physiology</i> , 2021 , 12, 639782	4.6	1
256	Normal BOLD Response to a Step CO Stimulus After Correction for Partial Volume Averaging. <i>Frontiers in Physiology</i> , 2021 , 12, 639360	4.6	
255	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	3	1
254	Measuring Cerebrovascular Reactivity: Sixteen Avoidable Pitfalls. <i>Frontiers in Physiology</i> , 2021 , 12, 6650496	4.6	0
253	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	2	1
252	A Promising Subject-Level Classification Model for Acute Concussion Based on Cerebrovascular Reactivity Metrics. <i>Journal of Neurotrauma</i> , 2021 , 38, 1036-1047	5.4	5
251	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	3.6	2
250	Control of Cerebral Blood Flow by Blood Gases. <i>Frontiers in Physiology</i> , 2021 , 12, 640075	4.6	9
249	Hypercapnia During Wakefulness Attenuates Ventricular Ectopy: Observations in a Young Man With Heart Failure With Reduced Ejection Fraction. <i>Circulation: Heart Failure</i> , 2020 , 13, e006837	7.6	1
248	Slowed Temporal and Parietal Cerebrovascular Response in Patients with Alzheimer's Disease. <i>Canadian Journal of Neurological Sciences</i> , 2020 , 47, 366-373	1	5
247	Sickle Cell Cerebrovascular Reactivity to a CO ₂ Stimulus Is Both Too Little and Too Slow. <i>Blood</i> , 2020 , 136, 55-55	2.2	1
246	Measuring Peripheral Chemoreflex Hypersensitivity in Heart Failure. <i>Frontiers in Physiology</i> , 2020 , 11, 595486	4.6	2
245	A mathematical model of cerebral blood flow control in anaemia and hypoxia. <i>Journal of Physiology</i> , 2020 , 598, 717-730	3.9	10

244	Cerebrovascular Reactivity Assays Collateral Function in Carotid Stenosis. <i>Frontiers in Physiology</i> , 2020 , 11, 1031	4.6	2
243	Accelerated ethanol elimination via the lungs. <i>Scientific Reports</i> , 2020 , 10, 19249	4.9	1
242	Fail-safe aspects of oxygen supply. <i>Journal of Physiology</i> , 2020 , 598, 4859-4867	3.9	2
241	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	3.9	28
240	Cerebrovascular Resistance in Healthy Aging and Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2019 , 11, 79	5.3	16
239	Comparative Assessment of Central and Peripheral Chemoreceptor Reflex Regulation of Muscle Sympathetic Nerve Activity and Ventilation. <i>FASEB Journal</i> , 2019 , 33, 560.2	0.9	
238	Impact of Graded Passive Cycling on Hemodynamics, Brain, and Heart Perfusion in Healthy Adults. <i>Frontiers in Medicine</i> , 2019 , 6, 186	4.9	3
237	The effect of acute morphine on obstructive sleep apnoea: a randomised double-blind placebo-controlled crossover trial. <i>Thorax</i> , 2019 , 74, 177-184	7.3	18
236	Improved White Matter Cerebrovascular Reactivity after Revascularization in Patients with Steno-Occlusive Disease. <i>American Journal of Neuroradiology</i> , 2019 , 40, 45-50	4.4	13
235	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	2.8	9
234	Evaluation of Cerebrovascular Reactivity in Subjects with and without Obstructive Sleep Apnea. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018 , 27, 162-168	2.8	12
233	Patient-Specific Alterations in CO Cerebrovascular Responsiveness in Acute and Sub-Acute Sports-Related Concussion. <i>Frontiers in Neurology</i> , 2018 , 9, 23	4.1	32
232	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	4.1	7
231	The aging brain and cerebrovascular reactivity. <i>NeuroImage</i> , 2018 , 181, 132-141	7.9	28
230	Cerebrovascular Resistance: The Basis of Cerebrovascular Reactivity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 409	5.1	23
229	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	2.2	8
228	Assessing cerebrovascular reactivity by the pattern of response to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017 , 38, 3415-3427	5.9	26
227	A non-invasive magnetic resonance imaging approach for assessment of real-time microcirculation dynamics. <i>Scientific Reports</i> , 2017 , 7, 7468	4.9	10

226	The role of vascular resistance in BOLD responses to progressive hypercapnia. <i>Human Brain Mapping</i> , 2017 , 38, 5590-5602	5.9	19
225	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	5.3	9
224	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	5.3	15
223	Development of White Matter Hyperintensity Is Preceded by Reduced Cerebrovascular Reactivity. <i>Annals of Neurology</i> , 2016 , 80, 277-85	9.4	62
222	Vascular Dysfunction in Leukoaraiosis. <i>American Journal of Neuroradiology</i> , 2016 , 37, 2258-2264	4.4	24
221	Cerebrovascular reactivity and white matter integrity. <i>Neurology</i> , 2016 , 87, 2333-2339	6.5	28
220	Identifying Significant Changes in Cerebrovascular Reactivity to Carbon Dioxide. <i>American Journal of Neuroradiology</i> , 2016 , 37, 818-24	4.4	29
219	Brain magnetic resonance imaging CO2 stress testing in adolescent postconcussion syndrome. <i>Journal of Neurosurgery</i> , 2016 , 125, 648-60	3.2	54
218	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, 10-6	2.8	7
217	Neuroimaging Assessment of Cerebrovascular Reactivity in Concussion: Current Concepts, Methodological Considerations, and Review of the Literature. <i>Frontiers in Neurology</i> , 2016 , 7, 61	4.1	59
216	Longitudinal Brain Magnetic Resonance Imaging CO2 Stress Testing in Individual Adolescent Sports-Related Concussion Patients: A Pilot Study. <i>Frontiers in Neurology</i> , 2016 , 7, 107	4.1	26
215	T2* and T1 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, 305-16	5.6	12
214	Relationship between retinal blood flow and arterial oxygen. <i>Journal of Physiology</i> , 2016 , 594, 625-40	3.9	24
213	Sequential gas delivery provides precise control of alveolar gas exchange. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 225, 60-9	2.8	27
212	Clamping end-tidal carbon dioxide during graded exercise with control of inspired oxygen. <i>Respiratory Physiology and Neurobiology</i> , 2016 , 231, 28-36	2.8	3
211	Impaired dynamic cerebrovascular response to hypercapnia predicts development of white matter hyperintensities. <i>NeuroImage: Clinical</i> , 2016 , 11, 796-801	5.3	30
210	The dynamics of cerebrovascular reactivity shown with transfer function analysis. <i>NeuroImage</i> , 2015 , 114, 207-16	7.9	47
209	Measuring cerebrovascular reactivity: the dynamic response to a step hypercapnic stimulus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 1746-56	7.3	62

208	Assessing cerebrovascular reactivity abnormality by comparison to a reference atlas. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 213-20	7.3	54
207	Comparing the effect of hypercapnia and hypoxia on the electroencephalogram during wakefulness. <i>Clinical Neurophysiology</i> , 2015 , 126, 103-9	4.3	32
206	Oxygen dissociation curves in altitude and sea-level residents. <i>Experimental Physiology</i> , 2015 , 100, 341	2.4	
205	Non-invasive measurement of cardiac output using an iterative, respiration-based method. <i>British Journal of Anaesthesia</i> , 2015 , 114, 406-13	5.4	4
204	AltitudeOmics: Resetting of Cerebrovascular CO ₂ Reactivity Following Acclimatization to High Altitude. <i>Frontiers in Physiology</i> , 2015 , 6, 394	4.6	7
203	Normal hypercapnic cerebrovascular conductance in obstructive sleep apnea. <i>Respiratory Physiology and Neurobiology</i> , 2014 , 190, 47-53	2.8	9
202	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	7.9	94
201	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, 664-70	3	
200	Rates of carbon monoxide elimination in males and females. <i>Physiological Reports</i> , 2014 , 2, e12237	2.6	14
199	The fast exercise drive to breathe. <i>Journal of Physiology</i> , 2014 , 592, 445-51	3.9	16
198	Factors affecting the determination of cerebrovascular reactivity. <i>Brain and Behavior</i> , 2014 , 4, 775-88	3.4	45
197	Circadian cerebrovascular reactivity to CO ₂ . <i>Respiratory Physiology and Neurobiology</i> , 2014 , 197, 15-8	2.8	7
196	Non-invasive accurate measurement of arterial PCO ₂ in a pediatric animal model. <i>Journal of Clinical Monitoring and Computing</i> , 2013 , 27, 147-55	2	12
195	Measuring cerebrovascular reactivity: what stimulus to use?. <i>Journal of Physiology</i> , 2013 , 591, 5809-21	3.9	175
194	Post-operative hypercapnia-induced hyperpnoea accelerates recovery from sevoflurane anaesthesia: a prospective randomised controlled trial. <i>Acta Anaesthesiologica Scandinavica</i> , 2013 , 57, 623-30	1.9	12
193	The in-vivo oxyhaemoglobin dissociation curve at sea level and high altitude. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 186, 45-52	2.8	26
192	Unknown in vivo factors influencing the oxygen dissociation curve?. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 188, 81	2.8	0
191	Model Validation and Control Issues in the Respiratory System. <i>Lecture Notes in Mathematics</i> , 2013 , 133-162	3	

190	Rebuttal from James Duffin and Jason H. Mateika. <i>Journal of Physiology</i> , 2013 , 591, 4363	3.9	1
189	Cross-Talk opposing view: peripheral and central chemoreflexes have additive effects on ventilation in humans. <i>Journal of Physiology</i> , 2013 , 591, 4351-3	3.9	23
188	Instability of the middle cerebral artery blood flow in response to CO ₂ . <i>PLoS ONE</i> , 2013 , 8, e70751	3.7	14
187	Cerebral oxygen saturation: graded response to carbon dioxide with isoxia and graded response to oxygen with isocapnia. <i>PLoS ONE</i> , 2013 , 8, e57881	3.7	13
186	Changes in exercise hyperpnea are more attributable to limb movement frequency than pedal loading. <i>FASEB Journal</i> , 2013 , 27, lb869	0.9	
185	Central-peripheral respiratory chemoreflex interaction in humans. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 180, 126-31	2.8	27
184	Response to letter from Teppema and Berendsen concerning Fan et al. (2012): Acetazolamide and cerebrovascular function at high altitude <i>Journal of Physiology</i> , 2012 , 590, 3623; author reply 3625-6	3.9	1
183	The interaction of carbon dioxide and hypoxia in the control of cerebral blood flow. <i>Pflugers Archiv European Journal of Physiology</i> , 2012 , 464, 345-51	4.6	46
182	Approaches to brain stress testing: BOLD magnetic resonance imaging with computer-controlled delivery of carbon dioxide. <i>PLoS ONE</i> , 2012 , 7, e47443	3.7	33
181	Increased carbon monoxide clearance during exercise in humans. <i>Medicine and Science in Sports and Exercise</i> , 2012 , 44, 2118-24	1.2	18
180	Commentaries on Viewpoint: Initiating inspiration outside the medulla does produce eupneic breathing. Why should it not?. <i>Journal of Applied Physiology</i> , 2011 , 110, 857; author reply 859	3.7	1
179	Increased lung clearance of isoflurane shortens emergence in obesity: a prospective randomized-controlled trial. <i>Acta Anaesthesiologica Scandinavica</i> , 2011 , 55, 995-1001	1.9	12
178	Phenotyping interindividual variability in obstructive sleep apnoea response to temazepam using ventilatory chemoreflexes during wakefulness. <i>Journal of Sleep Research</i> , 2011 , 20, 526-32	5.8	38
177	The cerebrovascular response to carbon dioxide in humans. <i>Journal of Physiology</i> , 2011 , 589, 3039-48	3.9	156
176	Rapid elimination of CO through the lungs: coming full circle 100 years on. <i>Experimental Physiology</i> , 2011 , 96, 1262-9	2.4	16
175	Measuring the respiratory chemoreflexes in humans. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 177, 71-9	2.8	76
174	Respiratory, cerebrovascular and cardiovascular responses to isocapnic hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 179, 259-68	2.8	9
173	End-inspiratory rebreathing reduces the end-tidal to arterial PCO ₂ gradient in mechanically ventilated pigs. <i>Intensive Care Medicine</i> , 2011 , 37, 1543-50	14.5	24

172	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	0.9	
171	Differences in the control of breathing between Himalayan and sea-level residents. <i>Journal of Physiology</i> , 2010 , 588, 1591-606	3.9	20
170	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, 1607-21	3.9	17
169	Identification of a novel form of noradrenergic-dependent respiratory motor plasticity triggered by vagal feedback. <i>Journal of Neuroscience</i> , 2010 , 30, 16886-95	6.6	21
168	Measuring the hypoxic ventilatory response. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 669, 221-4	3.6	
167	The role of the central chemoreceptors: a modeling perspective. <i>Respiratory Physiology and Neurobiology</i> , 2010 , 173, 230-43	2.8	45
166	Hypoventilation and Hyperventilation Syndromes 2010 , 1859-1880		2
165	Repeated obstructive apneas induce long-term facilitation of genioglossus muscle tone. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 669, 297-301	3.6	8
164	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, R1473-95	3.2	382
163	A simple and portable breathing circuit designed for ventilatory muscle endurance training (VMET). <i>Respiratory Medicine</i> , 2009 , 103, 1822-7	4.6	
162	Decreased chemosensitivity and improvement of sleep apnea by nocturnal hemodialysis. <i>Sleep Medicine</i> , 2009 , 10, 47-54	4.6	45
161	Non-invasive prospective targeting of arterial P(CO ₂) in subjects at rest. <i>Journal of Physiology</i> , 2008 , 586, 3675-82	3.9	108
160	Intermittent hypoxia induces respiratory long-term facilitation in postnatal rats. <i>Advances in Experimental Medicine and Biology</i> , 2008 , 605, 233-8	3.6	3
159	Physiological mechanisms of hyperventilation during human pregnancy. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 161, 76-86	2.8	44
158	Frequency of movements and respiratory control in exercise. <i>Respiratory Physiology and Neurobiology</i> , 2008 , 161, 221-222	2.8	1
157	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, 18000-5	11.5	59
156	Prospective targeting and control of end-tidal CO ₂ and O ₂ concentrations. <i>Journal of Physiology</i> , 2007 , 581, 1207-19	3.9	219
155	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	3.9	15

154	Measuring the ventilatory response to hypoxia. <i>Journal of Physiology</i> , 2007 , 584, 285-93	3.9	74
153	Respiratory Muscle Training and the Performance of a Simulated Anti-G Straining Maneuver. <i>Aviation, Space, and Environmental Medicine</i> , 2007 , 78, 1035-1041		8
152	Long-term facilitation of breathing is absent after episodes of hypercapnic hypoxia in awake humans. <i>Respiratory Physiology and Neurobiology</i> , 2007 , 156, 132-6	2.8	16
151	The ventilatory response to sine wave variation in exercise loads and limb movement frequency. <i>Respiratory Physiology and Neurobiology</i> , 2007 , 158, 45-50	2.8	13
150	Enhanced chemo-responsiveness in patients with sleep apnoea and end-stage renal disease. <i>European Respiratory Journal</i> , 2006 , 28, 151-8	13.6	96
149	Transmission of respiratory rhythm: midline-crossing connections at the level of the phrenic motor nucleus?. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 153, 139-47	2.8	13
148	Rapid increases in ventilation accompany the transition from passive to active movement. <i>Respiratory Physiology and Neurobiology</i> , 2006 , 152, 128-42	2.8	24
147	Role of acid-base balance in the chemoreflex control of breathing. <i>Journal of Applied Physiology</i> , 2005 , 99, 2255-65	3.7	83
146	Changes in respiratory control after 5 days at altitude. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 145, 41-52	2.8	28
145	Overnight changes of chemoreflex control in obstructive sleep apnoea patients. <i>Respiratory Physiology and Neurobiology</i> , 2005 , 146, 279-90	2.8	31
144	The initial phase of exercise hyperpnoea in humans is depressed during a cognitive task. <i>Experimental Physiology</i> , 2005 , 90, 357-65	2.4	19
143	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, 527-40	3.4	71
142	Modelling the respiratory chemoreflex control of Acid-base balance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 5836-9		2
141	Functional organization of respiratory neurones: a brief review of current questions and speculations. <i>Experimental Physiology</i> , 2004 , 89, 517-29	2.4	60
140	Anxiety sensitivity as a predictor of panic attacks. <i>Psychiatry Research</i> , 2004 , 129, 273-8	9.9	15
139	Cardio-respiratory measures following isocapnic voluntary hyperventilation. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 142, 13-25	2.8	5
138	Developmental changes in transmission of respiratory rhythm in the rat. <i>Respiratory Physiology and Neurobiology</i> , 2004 , 142, 153-63	2.8	9
137	The effects of carbon monoxide on respiratory chemoreflexes in humans. <i>Environmental Research</i> , 2004 , 94, 227-33	7.9	6

136	Epidural catheter penetration of human dural tissue: in vitro investigation. <i>Anesthesiology</i> , 2004 , 100, 1491-6	4.3	12
135	Respiratory response to passive limb movement is suppressed by a cognitive task. <i>Journal of Applied Physiology</i> , 2004 , 97, 2112-20	3.7	18
134	Dural tissue trauma and cerebrospinal fluid leak after epidural needle puncture: effect of needle design, angle, and bevel orientation. <i>Anesthesiology</i> , 2003 , 99, 1376-82	4.3	36
133	CO2 does not affect passive exercise ventilatory decline. <i>Journal of Applied Physiology</i> , 2003 , 95, 322-9	3.7	11
132	The respiratory effects of two modes of passive exercise. <i>European Journal of Applied Physiology</i> , 2003 , 88, 544-52	3.4	26
131	Inhibitory connections among rostral medullary expiratory neurones detected with cross-correlation in the decerebrate rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2003 , 446, 365-72	4.6	21
130	Connections between respiratory neurones in the neonatal rat transverse medullary slice studied with cross-correlation. <i>Journal of Physiology</i> , 2003 , 549, 327-32	3.9	17
129	A commentary on eupnoea and gasping. <i>Respiratory Physiology and Neurobiology</i> , 2003 , 139, 105-11	2.8	22
128	Adaptation in the respiratory control system. <i>Canadian Journal of Physiology and Pharmacology</i> , 2003 , 81, 765-73	2.4	40
127	Changes in respiratory control after three hours of isocapnic hypoxia in humans. <i>Journal of Physiology</i> , 2003 , 547, 271-81	3.9	26
126	The ventilatory response to cholecystokinin tetrapeptide in healthy volunteers. <i>Neuropsychopharmacology</i> , 2002 , 26, 824-31	8.7	5
125	Bilateral coordination of inspiratory neurones in the rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 443, 829-35	4.6	9
124	Caudal expiratory neurones in the rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2002 , 444, 405-10	4.6	9
123	Cerebral blood flow responses to changes in oxygen and carbon dioxide in humans. <i>Canadian Journal of Physiology and Pharmacology</i> , 2002 , 80, 819-27	2.4	31
122	Acetazolamide and respiratory chemosensitivity to CO(2) in the neonatal rat transverse medullary slice. <i>Respiratory Physiology and Neurobiology</i> , 2002 , 132, 279-87	2.8	4
121	Effects of tryptophan depletion on central and peripheral chemoreflexes in man. <i>Respiratory Physiology and Neurobiology</i> , 2002 , 133, 183-95	2.8	12
120	Respiratory pre-motor control of hypoglossal motoneurons in the rat. <i>Neuroscience</i> , 2002 , 110, 711-22	3.9	70
119	Central and peripheral chemoreflexes in panic disorder. <i>Psychiatry Research</i> , 2002 , 113, 181-92	9.9	20

118	Respiratory control of hypoglossal motoneurons in the rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 442, 78-86	4.6	47
117	Bilateral synchronisation of respiratory motor output in rats: adult versus neonatal in vitro preparations. <i>Pflugers Archiv European Journal of Physiology</i> , 2001 , 442, 943-51	4.6	14
116	The contribution of chemoreflex drives to resting breathing in man. <i>Experimental Physiology</i> , 2001 , 86, 109-16	2.4	27
115	Repeated hypoxic exposures change respiratory chemoreflex control in humans. <i>Journal of Physiology</i> , 2001 , 534, 595-603	3.9	62
114	Central and peripheral chemoreflex characteristics: panic disorder patients vs. healthy volunteers. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 499, 435-7	3.6	2
113	The control of breathing at rest. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 499, 431-3	3.6	1
112	Simulation of the respiratory control system. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 499, 315-20	3.6	
111	Respiratory control of hypoglossal motoneurons. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 499, 101-6	3.6	6
110	Modeling respiratory adaptations in humans. <i>Advances in Experimental Medicine and Biology</i> , 2001 , 499, 241-5	3.6	1
109	Nucleus raphaebscurus modulates hypoglossal output of neonatal rat in vitro transverse brain stem slices. <i>Journal of Applied Physiology</i> , 2001 , 90, 269-79	3.7	27
108	Simulation of cross-correlograms resulting from synaptic connections between neurons. <i>Journal of Neuroscience Methods</i> , 2000 , 99, 65-70	3	7
107	Changes in Chemoreflex Characteristics Following Acute Carbonic Anhydrase Inhibition in Humans a Rest. <i>Experimental Physiology</i> , 2000 , 85, 847-856	2.4	1
106	Circadian rhythms in the chemoreflex control of breathing. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000 , 278, R282-6	3.2	51
105	Changes in chemoreflex characteristics following acute carbonic anhydrase inhibition in humans at rest. <i>Experimental Physiology</i> , 2000 , 85, 847-856	2.4	3
104	A model of the chemoreflex control of breathing in humans: model parameters measurement. <i>Respiration Physiology</i> , 2000 , 120, 13-26		155
103	Functional synaptic connections among respiratory neurons. <i>Respiration Physiology</i> , 2000 , 122, 237-46		25
102	Changes in chemoreflex characteristics following acute carbonic anhydrase inhibition in humans at rest. <i>Experimental Physiology</i> , 2000 , 85, 847-56	2.4	16
101	Bzinger-complex, bulbospinal expiratory neurons monosynaptically inhibit ventral-group respiratory neurons in the decerebrate rat. <i>Experimental Brain Research</i> , 1999 , 124, 173-80	2.3	47

100	Mutual inhibition between B�zinger-complex bulbospinal expiratory neurons detected with cross-correlation in the decerebrate rat. <i>Experimental Brain Research</i> , 1999 , 125, 440-6	2.3	18
99	Measuring central-chemoreflex sensitivity in man: rebreathing and steady-state methods compared. <i>Respiration Physiology</i> , 1999 , 115, 23-33		70
98	Temperature and pH affect respiratory rhythm of in-vitro preparations from neonatal rats. <i>Respiration Physiology</i> , 1999 , 117, 97-107		22
97	Entrainment, instability, quasi-periodicity, and chaos in a compound neural oscillator. <i>Journal of Computational Neuroscience</i> , 1998 , 5, 35-51	1.4	37
96	The role of dorsal respiratory group neurons studied with cross-correlation in the decerebrate rat. <i>Experimental Brain Research</i> , 1998 , 121, 29-34	2.3	27
95	B�zinger-complex expiratory neurons monosynaptically inhibit phrenic motoneurons in the decerebrate rat. <i>Experimental Brain Research</i> , 1998 , 122, 149-56	2.3	48
94	Bilaterally independent respiratory rhythms in the decerebrate rat. <i>Neuroscience Letters</i> , 1998 , 247, 41-43	3	83
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