

Andrew T Lovering

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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.

110
papers

2,865
citations

31
h-index

50
g-index

134
ext. papers

3,384
ext. citations

3.6
avg, IF

4.84
L-index

#	Paper	IF	Citations
110	Arterial oxygenation influences central motor output and exercise performance via effects on peripheral locomotor muscle fatigue in humans. <i>Journal of Physiology</i> , 2006 , 575, 937-52	3.9	253
109	Exercise-induced intrapulmonary arteriovenous shunting in healthy humans. <i>Journal of Applied Physiology</i> , 2004 , 97, 797-805	3.7	181
108	Effect of inspiratory muscle work on peripheral fatigue of locomotor muscles in healthy humans. <i>Journal of Physiology</i> , 2006 , 571, 425-39	3.9	127
107	Intrapulmonary shunting and pulmonary gas exchange during normoxic and hypoxic exercise in healthy humans. <i>Journal of Applied Physiology</i> , 2008 , 104, 1418-25	3.7	107
106	Effect of acute severe hypoxia on peripheral fatigue and endurance capacity in healthy humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R598-606 ^{3.2}	3.2	103
105	Sphingosine-1-phosphate promotes erythrocyte glycolysis and oxygen release for adaptation to high-altitude hypoxia. <i>Nature Communications</i> , 2016 , 7, 12086	17.4	99
104	Effect of exercise-induced arterial hypoxemia on quadriceps muscle fatigue in healthy humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R365-75	3.2	96
103	Beneficial Role of Erythrocyte Adenosine A2B Receptor-Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. <i>Circulation</i> , 2016 , 134, 405-21	16.7	84
102	Hyperoxia prevents exercise-induced intrapulmonary arteriovenous shunt in healthy humans. <i>Journal of Physiology</i> , 2008 , 586, 4559-65	3.9	77
101	Direct demonstration of 25- and 50-microm arteriovenous pathways in healthy human and baboon lungs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 292, H1777-81	5.2	66
100	Exercise-induced arteriovenous intrapulmonary shunting in dogs. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2007 , 176, 300-5	10.2	61
99	Hypoxia-induced intrapulmonary arteriovenous shunting at rest in healthy humans. <i>Journal of Applied Physiology</i> , 2010 , 109, 1072-9	3.7	59
98	AltitudeOmics: Red Blood Cell Metabolic Adaptation to High Altitude Hypoxia. <i>Journal of Proteome Research</i> , 2016 , 15, 3883-3895	5.6	56
97	Ventilatory and sensory responses in adult survivors of preterm birth and bronchopulmonary dysplasia with reduced exercise capacity. <i>Annals of the American Thoracic Society</i> , 2014 , 11, 1528-37	4.7	56
96	AltitudeOmics: the integrative physiology of human acclimatization to hypobaric hypoxia and its retention upon reascent. <i>PLoS ONE</i> , 2014 , 9, e92191	3.7	52
95	Catecholamine-induced opening of intrapulmonary arteriovenous anastomoses in healthy humans at rest. <i>Journal of Applied Physiology</i> , 2012 , 113, 1213-22	3.7	48
94	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. <i>Nature Communications</i> , 2017 , 8, 14108	17.4	46

93	AltitudeOmics: effect of ascent and acclimatization to 5260m on regional cerebral oxygen delivery. <i>Experimental Physiology</i> , 2014 , 99, 772-81	2.4	45
92	Prevalence of left heart contrast in healthy, young, asymptomatic humans at rest breathing room air. <i>Respiratory Physiology and Neurobiology</i> , 2013 , 188, 71-8	2.8	44
91	Heat acclimation and cross tolerance to hypoxia: Bridging the gap between cellular and systemic responses. <i>Temperature</i> , 2014 , 1, 107-14	5.2	43
90	AltitudeOmics: rapid hemoglobin mass alterations with early acclimatization to and de-acclimatization from 5260 m in healthy humans. <i>PLoS ONE</i> , 2014 , 9, e108788	3.7	43
89	Excitation of medullary respiratory neurons in REM sleep. <i>Sleep</i> , 2005 , 28, 801-7	1.1	42
88	Transpulmonary passage of 99mTc macroaggregated albumin in healthy humans at rest and during maximal exercise. <i>Journal of Applied Physiology</i> , 2009 , 106, 1986-92	3.7	41
87	AltitudeOmics: exercise-induced supraspinal fatigue is attenuated in healthy humans after acclimatization to high altitude. <i>Acta Physiologica</i> , 2014 , 210, 875-88	5.6	38
86	Altered breathing mechanics and ventilatory response during exercise in children born extremely preterm. <i>Thorax</i> , 2016 , 71, 1012-1019	7.3	38
85	Pulmonary pathways and mechanisms regulating transpulmonary shunting into the general circulation: an update. <i>Injury</i> , 2010 , 41 Suppl 2, S16-23	2.5	37
84	Exercise-induced intrapulmonary arteriovenous shunting and pulmonary gas exchange. <i>Exercise and Sport Sciences Reviews</i> , 2006 , 34, 99-106	6.7	37
83	Endogenous excitatory drive to the respiratory system in rapid eye movement sleep in cats. <i>Journal of Physiology</i> , 2000 , 527 Pt 2, 365-76	3.9	37
82	Effect of initial gas bubble composition on detection of inducible intrapulmonary arteriovenous shunt during exercise in normoxia, hypoxia, or hyperoxia. <i>Journal of Applied Physiology</i> , 2011 , 110, 35-45	3.7	36
81	Counterpoint: Exercise-induced intrapulmonary shunting is real. <i>Journal of Applied Physiology</i> , 2009 , 107, 994-7	3.7	33
80	Adaptive remodeling of skeletal muscle energy metabolism in high-altitude hypoxia: Lessons from AltitudeOmics. <i>Journal of Biological Chemistry</i> , 2018 , 293, 6659-6671	5.4	31
79	Increased cardiac output, not pulmonary artery systolic pressure, increases intrapulmonary shunt in healthy humans breathing room air and 40% O ₂ . <i>Journal of Physiology</i> , 2014 , 592, 4537-53	3.9	30
78	AltitudeOmics: on the consequences of high-altitude acclimatization for the development of fatigue during locomotor exercise in humans. <i>Journal of Applied Physiology</i> , 2013 , 115, 634-42	3.7	30
77	Pulmonary gas exchange efficiency during exercise breathing normoxic and hypoxic gas in adults born very preterm with low diffusion capacity. <i>Journal of Applied Physiology</i> , 2014 , 117, 473-81	3.7	27
76	Resting pulmonary haemodynamics and shunting: a comparison of sea-level inhabitants to high altitude Sherpas. <i>Journal of Physiology</i> , 2014 , 592, 1397-409	3.9	27

75	Normal pulmonary gas exchange efficiency and absence of exercise-induced arterial hypoxemia in adults with bronchopulmonary dysplasia. <i>Journal of Applied Physiology</i> , 2013 , 115, 1050-6	3.7	27
74	AltitudeOmics: cerebral autoregulation during ascent, acclimatization, and re-exposure to high altitude and its relation with acute mountain sickness. <i>Journal of Applied Physiology</i> , 2014 , 116, 724-9	3.7	24
73	Repeat exercise normalizes the gas-exchange impairment induced by a previous exercise bout in asthmatic subjects. <i>Journal of Applied Physiology</i> , 2005 , 99, 1843-52	3.7	24
72	Tonic activity in the respiratory system in wakefulness, NREM and REM sleep. <i>Sleep</i> , 2002 , 25, 488-96	1.1	24
71	Exercise- and hypoxia-induced blood flow through intrapulmonary arteriovenous anastomoses is reduced in older adults. <i>Journal of Applied Physiology</i> , 2014 , 116, 1324-33	3.7	23
70	Ventilatory response of the cat to hypoxia in sleep and wakefulness. <i>Journal of Applied Physiology</i> , 2003 , 95, 545-54	3.7	23
69	Intrapulmonary arteriovenous anastomoses in humans--response to exercise and the environment. <i>Journal of Physiology</i> , 2015 , 593, 507-20	3.9	22
68	Hypoxia, not pulmonary vascular pressure, induces blood flow through intrapulmonary arteriovenous anastomoses. <i>Journal of Physiology</i> , 2015 , 593, 723-37	3.9	22
67	Intrapulmonary shunt during normoxic and hypoxic exercise in healthy humans. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 588, 31-45	3.6	22
66	AltitudeOmics: enhanced cerebrovascular reactivity and ventilatory response to CO ₂ with high-altitude acclimatization and reexposure. <i>Journal of Applied Physiology</i> , 2014 , 116, 911-8	3.7	21
65	Hypocapnia decreases the amount of rapid eye movement sleep in cats. <i>Sleep</i> , 2003 , 26, 961-7	1.1	21
64	Decreased arterial PO ₂ , not O ₂ content, increases blood flow through intrapulmonary arteriovenous anastomoses at rest. <i>Journal of Physiology</i> , 2016 , 594, 4981-96	3.9	20
63	Effect of a patent foramen ovale on pulmonary gas exchange efficiency at rest and during exercise. <i>Journal of Applied Physiology</i> , 2011 , 110, 1354-61	3.7	20
62	AltitudeOmics: impaired pulmonary gas exchange efficiency and blunted ventilatory acclimatization in humans with patent foramen ovale after 16 days at 5,260 m. <i>Journal of Applied Physiology</i> , 2015 , 118, 1100-12	3.7	18
61	Premature birth affects the degree of airway dysanapsis and mechanical ventilatory constraints. <i>Experimental Physiology</i> , 2018 , 103, 261-275	2.4	18
60	Unchanged cerebrovascular CO reactivity and hypercapnic ventilatory response during strict head-down tilt bed rest in a mild hypercapnic environment. <i>Journal of Physiology</i> , 2020 , 598, 2491-2505	3.9	17
59	Respiratory pattern generator model using Ca ⁺⁺ -induced Ca ⁺⁺ release in neurons shows both pacemaker and reciprocal network properties. <i>Biological Cybernetics</i> , 2003 , 89, 274-88	2.8	16
58	Clinical consideration for techniques to detect and quantify blood flow through intrapulmonary arteriovenous anastomoses: lessons from physiological studies. <i>Echocardiography</i> , 2015 , 32 Suppl 3, S195-204	1.5	15

57	Exaggerated Increase in Pulmonary Artery Pressure during Exercise in Adults Born Preterm. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 197, 821-823	10.2	15
56	Intrapulmonary arteriovenous anastomoses. Physiological, pathophysiological, or both?. <i>Annals of the American Thoracic Society</i> , 2013 , 10, 504-8	4.7	15
55	Mu and delta opioid receptor regulation of pro-opiomelanocortin peptide secretion from the rat neurointermediate pituitary in vitro. <i>Neuropeptides</i> , 2000 , 34, 69-75	3.3	15
54	alpha-melanocyte-stimulating hormone and habituation of prey-catching behavior in the Texas toad, <i>Bufo speciosus</i> . <i>Hormones and Behavior</i> , 1999 , 36, 62-9	3.7	13
53	Higher oesophageal temperature at rest and during exercise in humans with patent foramen ovale. <i>Journal of Physiology</i> , 2015 , 593, 4615-30	3.9	11
52	Excessive gas exchange impairment during exercise in a subject with a history of bronchopulmonary dysplasia and high altitude pulmonary edema. <i>High Altitude Medicine and Biology</i> , 2007 , 8, 62-7	1.9	11
51	Very Few Exercise-Induced Arterialized Gas Bubbles Reach the Cerebral Vasculature. <i>Medicine and Science in Sports and Exercise</i> , 2015 , 47, 1798-805	1.2	10
50	Sildenafil, nifedipine and acetazolamide do not allow for blood flow through intrapulmonary arteriovenous anastomoses during exercise while breathing 100% oxygen. <i>Experimental Physiology</i> , 2014 , 99, 1636-47	2.4	9
49	Responses and limitations of the respiratory system to exercise. <i>Clinics in Chest Medicine</i> , 2005 , 26, 439-57, vi	5.3	9
48	Exercise-induced arterial hypoxemia: consequences for locomotor muscle fatigue. <i>Advances in Experimental Medicine and Biology</i> , 2006 , 588, 47-55	3.6	9
47	Physiological impact of patent foramen ovale on pulmonary gas exchange, ventilatory acclimatization, and thermoregulation. <i>Journal of Applied Physiology</i> , 2016 , 121, 512-7	3.7	8
46	Medullary respiratory neural activity during hypoxia in NREM and REM sleep in the cat. <i>Journal of Neurophysiology</i> , 2006 , 95, 803-10	3.2	8
45	AltitudeOmics: Baroreflex Sensitivity During Acclimatization to 5,260 m. <i>Frontiers in Physiology</i> , 2018 , 9, 767	4.6	7
44	Contrast ultrasound techniques in the detection and quantification of patent foramen ovale: myth versus reality--a clarification. <i>Stroke</i> , 2005 , 36, 1109	6.7	7
43	AltitudeOmics: Resetting of Cerebrovascular CO2 Reactivity Following Acclimatization to High Altitude. <i>Frontiers in Physiology</i> , 2015 , 6, 394	4.6	7
42	AltitudeOmics: effect of reduced barometric pressure on detection of intrapulmonary shunt, pulmonary gas exchange efficiency, and total pulmonary resistance. <i>Journal of Applied Physiology</i> , 2018 , 124, 1363-1376	3.7	6
41	Last Word on Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. <i>Journal of Applied Physiology</i> , 2009 , 107, 1003	3.7	6
40	A neural ensemble model of the respiratory central pattern generator: properties of the minimal model. <i>Neurocomputing</i> , 2002 , 44-46, 381-389	5.4	6

39	Respiratory and cardiopulmonary limitations to aerobic exercise capacity in adults born preterm. <i>Journal of Applied Physiology</i> , 2020 , 129, 718-724	3.7	6
38	Reduced blood flow through intrapulmonary arteriovenous anastomoses during exercise in lowlanders acclimatizing to high altitude. <i>Experimental Physiology</i> , 2017 , 102, 670-683	2.4	5
37	Tonic and phasic drive to medullary respiratory neurons during periodic breathing. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 181, 286-301	2.8	5
36	Temporal changes in pulmonary gas exchange efficiency when breath-hold diving below residual volume. <i>Experimental Physiology</i> , 2021 , 106, 1120-1133	2.4	5
35	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. <i>Journal of Applied Physiology</i> , 2016 , 120, 1478-82	3.7	5
34	Relationship between quantitative and descriptive methods of studying blood flow through intrapulmonary arteriovenous anastomoses during exercise. <i>Respiratory Physiology and Neurobiology</i> , 2017 , 243, 47-54	2.8	4
33	Characterization of blood flow through intrapulmonary arteriovenous anastomoses and patent foramen ovale at rest and during exercise in stroke and transient ischemic attack patients. <i>Echocardiography</i> , 2017 , 34, 676-682	1.5	4
32	Effect of a patent foramen ovale in humans on thermal responses to passive cooling and heating. <i>Journal of Applied Physiology</i> , 2017 , 123, 1423-1432	3.7	4
31	Resting arterial hypoxaemia in subjects with chronic heart failure, pulmonary hypertension and patent foramen ovale. <i>Experimental Physiology</i> , 2016 , 101, 657-70	2.4	4
30	Alleviating mechanical constraints to ventilation with heliox improves exercise endurance in adult survivors of very preterm birth. <i>Thorax</i> , 2019 , 74, 302-304	7.3	4
29	Bubble and macroaggregate methods differ in detection of blood flow through intrapulmonary arteriovenous anastomoses in upright and supine hypoxia in humans. <i>Journal of Applied Physiology</i> , 2017 , 123, 1592-1598	3.7	3
28	Ventilatory responses to acute hypoxia and hypercapnia in humans with a patent foramen ovale. <i>Journal of Applied Physiology</i> , 2019 , 126, 730-738	3.7	3
27	Evolution of the plasma proteome of divers before and after a single SCUBA dive. <i>Proteomics - Clinical Applications</i> , 2017 , 11, 1700016	3.1	2
26	Analysis of maximal expiratory flow-volume curves in adult survivors of preterm birth. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R588-R596	3.2	2
25	Intrapulmonary arteriovenous anastomoses in humans with chronic obstructive pulmonary disease: implications for cryptogenic stroke?. <i>Experimental Physiology</i> , 2016 , 101, 1128-42	2.4	2
24	Alterations in brain and pituitary beta-endorphin content in genetically epilepsy-prone rats. <i>Epilepsy Research</i> , 1998 , 31, 113-22	3	2
23	Plasma beta-endorphin concentrations during natural and artificially induced winter hair growth in mink (<i>Mustela vison</i>). <i>Annals of the New York Academy of Sciences</i> , 1999 , 885, 440-3	6.5	2
22	Precise rhythmicity in activity of neocortical, thalamic and brain stem neurons in behaving cats and rabbits. <i>Behavioural Brain Research</i> , 2006 , 175, 27-42	3.4	1

21	Adenosine Signaling-Mediated Metabolic Reprogramming Regulates Erythropoiesis. <i>Blood</i> , 2016 , 128, 2437-2437	2.2	1
20	VaPER: The Development of Spaceflight Associated Neuro-ocular Syndrome (SANS) During Hypercapnic 6 ^h Head-Down Tilt Bed Rest; sans Sufficient Sleep?. <i>FASEB Journal</i> , 2018 , 32, lb260	0.9	1
19	Differential Brain and Muscle Tissue Oxygenation Responses to Exercise in Tibetans Compared to Han Chinese. <i>Frontiers in Physiology</i> , 2021 , 12, 617954	4.6	1
18	Impaired pulmonary gas exchange efficiency, but normal pulmonary artery pressure increases, with hypoxia in men and women with a patent foramen ovale. <i>Experimental Physiology</i> , 2020 , 105, 1648-1659	2.4	0
17	AltitudeOmics: Spontaneous Baroreflex Sensitivity During Acclimatization to 5,260 m: A Comparison of Methods. <i>Frontiers in Physiology</i> , 2019 , 10, 1505	4.6	0
16	Reply from Jonathan E. Elliott, Joseph W. Duke, Jerold A. Hawn, John R. Halliwill and Andrew T. Lovering. <i>Journal of Physiology</i> , 2015 , 593, 483-4	3.9	
15	Reply to Van Liew and Vann. <i>Journal of Applied Physiology</i> , 2011 , 110, 296-297	3.7	
14	Impact of Altitude on Cardiopulmonary and Right Ventricular Hemodynamics During Exercise. <i>Advances in Pulmonary Hypertension</i> , 2020 , 19, 77-79	0.5	
13	Oxygen tension modulates transpulmonary passage of 50 th solid microspheres under physiologic conditions in healthy rat lungs. <i>FASEB Journal</i> , 2006 , 20, LB31	0.9	
12	Quantification of Intrapulmonary Anatomic Shunt Induced by Exercise in Healthy Humans. <i>FASEB Journal</i> , 2006 , 20, A394	0.9	
11	Diaphragmatic and Respiratory Neuronal Activities during the Restart of Breathing after Hypocapnic Apnea. <i>FASEB Journal</i> , 2007 , 21, A558	0.9	
10	Decreased Arterial PO ₂ , not O ₂ Content, Increases Blood Flow Through Intrapulmonary Arteriovenous Anastomoses at Rest. <i>FASEB Journal</i> , 2015 , 29, 1031.1	0.9	
9	Gas bubble composition does not affect the detection of exercise-induced intrapulmonary arteriovenous shunt in hypoxia, normoxia or hyperoxia. <i>FASEB Journal</i> , 2010 , 24, 615.2	0.9	
8	Anticonvulsant and convulsant effects of cocaine in genetically epilepsy-prone rats. <i>FASEB Journal</i> , 2010 , 24, 764.3	0.9	
7	Mechanisms of hypoxia-induced intrapulmonary arteriovenous shunting in healthy humans at rest: arterial oxygen saturation or pulmonary artery systolic pressure?. <i>FASEB Journal</i> , 2010 , 24, 1061.1	0.9	
6	Epinephrine opens intrapulmonary arteriovenous anastomoses in healthy humans at rest. <i>FASEB Journal</i> , 2012 , 26, 1150.8	0.9	
5	Nifedipine does not open intrapulmonary arteriovenous anastomoses in healthy human subjects during exercise breathing 100% O ₂ . <i>FASEB Journal</i> , 2012 , 26, 1138.46	0.9	
4	Direct demonstration that blood flow through intrapulmonary arteriovenous anastomoses worsens pulmonary gas exchange efficiency. <i>FASEB Journal</i> , 2013 , 27, 723.7	0.9	

- 3 Quantification of hypoxia-induced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans at rest. *FASEB Journal*, **2013**, 27, 715.8 0.9
- 2 Do Humans With a Patent Foramen Ovale Have a Higher Core Body Temperature During Rest, Exercise and Post-Exercise?. *FASEB Journal*, **2013**, 27, 1201.26 0.9
- 1 Quantification of reduced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans during exercise breathing 100% O₂. *FASEB Journal*, **2013**, 27, 1141.4 0.9