Andrew T Lovering

List of Publications by Year
in descending order

133 papers	3,743 citations	117619 34 h-index	144002 57 g-index
134 all docs	134 docs citations	134 times ranked	2741 citing authors

#	Article	IF	Citations
1	Arterial oxygenation influences central motor output and exercise performance via effects on peripheral locomotor muscle fatigue in humans. Journal of Physiology, 2006, 575, 937-952.	2.9	294
2	Exercise-induced intrapulmonary arteriovenous shunting in healthy humans. Journal of Applied Physiology, 2004, 97, 797-805.	2.5	201
3	Sphingosine-1-phosphate promotes erythrocyte glycolysis and oxygen release for adaptation to high-altitude hypoxia. Nature Communications, 2016, 7, 12086.	12.8	163
4	Effect of inspiratory muscle work on peripheral fatigue of locomotor muscles in healthy humans. Journal of Physiology, 2006, 571, 425-439.	2.9	153
5	Intrapulmonary shunting and pulmonary gas exchange during normoxic and hypoxic exercise in healthy humans. Journal of Applied Physiology, 2008, 104, 1418-1425.	2.5	119
6	Effect of acute severe hypoxia on peripheral fatigue and endurance capacity in healthy humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R598-R606.	1.8	115
7	Beneficial Role of Erythrocyte Adenosine A2B Receptorâ€“Mediated AMP-Activated Protein Kinase Activation in High-Altitude Hypoxia. Circulation, 2016, 134, 405-421.	1.6	115
8	Effect of exercise-induced arterial hypoxemia on quadriceps muscle fatigue in healthy humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 290, R365-R375.	1.8	106
9	AltitudeOmics: Red Blood Cell Metabolic Adaptation to High Altitude Hypoxia. Journal of Proteome Research, 2016, 15, 3883-3895.	3.7	98
10	AltitudeOmics: The Integrative Physiology of Human Acclimatization to Hypobaric Hypoxia and Its Retention upon Reascent. PLoS ONE, 2014, 9, e92191.	2.5	88
11	Hyperoxia prevents exerciseâ€induced intrapulmonary arteriovenous shunt in healthy humans. Journal of Physiology, 2008, 586, 4559-4565.	2.9	84
12	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. Nature Communications, 2017, 8, 14108.	12.8	81
13	Ventilatory and Sensory Responses in Adult Survivors of Preterm Birth and Bronchopulmonary Dysplasia with Reduced Exercise Capacity. Annals of the American Thoracic Society, 2014, 11, 1528-1537.	3.2	75
14	AltitudeOmics: Rapid Hemoglobin Mass Alterations with Early Acclimatization to and De-Acclimatization from 5260 m in Healthy Humans. PLoS ONE, 2014, 9, e108788.	2.5	73
15	Direct demonstration of 25- and 50-Î¼m arteriovenous pathways in healthy human and baboon lungs. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 292, H1777-H1781.	3.2	71
16	Hypoxia-induced intrapulmonary arteriovenous shunting at rest in healthy humans. Journal of Applied Physiology, 2010, 109, 1072-1079.	2.5	69
17	Exercise-induced Arteriovenous Intrapulmonary Shunting in Dogs. American Journal of Respiratory and Critical Care Medicine, 2007, 176, 300-305.	5.6	66
18	Adaptive remodeling of skeletal muscle energy metabolism in high-altitude hypoxia: Lessons from AltitudeOmics. Journal of Biological Chemistry, 2018, 293, 6659-6671.	3.4	57

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19	Heat acclimation and cross tolerance to hypoxia. Temperature, 2014, 1, 107-114.	3.0	56
20	Catecholamine-induced opening of intrapulmonary arteriovenous anastomoses in healthy humans at rest. Journal of Applied Physiology, 2012, 113, 1213-1222.	2.5	55
21	Prevalence of left heart contrast in healthy, young, asymptomatic humans at rest breathing room air. Respiratory Physiology and Neurobiology, 2013, 188, 71-78.	1.6	54
22	Altered breathing mechanics and ventilatory response during exercise in children born extremely preterm. Thorax, 2016, 71, 1012-1019.	5.6	53
23	Transpulmonary passage of^{99m}Tc macroaggregated albumin in healthy humans at rest and during maximal exercise. Journal of Applied Physiology, 2009, 106, 1986-1992.	2.5	50
24	AltitudeOmics: effect of ascent and acclimatization to 5260Âm on regional cerebral oxygen delivery. Experimental Physiology, 2014, 99, 772-781.	2.0	49
25	Excitation of Medullary Respiratory Neurons in REM Sleep. Sleep, 2005, 28, 801-807.	1.1	48
26	Pulmonary gas exchange efficiency during exercise breathing normoxic and hypoxic gas in adults born very preterm with low diffusion capacity. Journal of Applied Physiology, 2014, 117, 473-481.	2.5	48
27	AltitudeOmics: exercise-induced supraspinal fatigue is attenuated in healthy humans after acclimatization to high altitude. Acta Physiologica, 2014, 210, 875-888.	3.8	48
28	Pulmonary pathways and mechanisms regulating transpulmonary shunting into the general circulation: An update. Injury, 2010, 41, S16-S23.	1.7	45
29	Endogenous excitatory drive to the respiratory system in rapid eye movement sleep in cats. Journal of Physiology, 2000, 527, 365-376.	2.9	44
30	Effect of initial gas bubble composition on detection of inducible intrapulmonary arteriovenous shunt during exercise in normoxia, hypoxia, or hyperoxia. Journal of Applied Physiology, 2011, 110, 35-45.	2.5	44
31	AltitudeOmics: on the consequences of high-altitude acclimatization for the development of fatigue during locomotor exercise in humans. Journal of Applied Physiology, 2013, 115, 634-642.	2.5	40
32	Exercise-Induced Intrapulmonary Arteriovenous Shunting and Pulmonary Gas Exchange. Exercise and Sport Sciences Reviews, 2006, 34, 99-106.	3.0	39
33	Normal pulmonary gas exchange efficiency and absence of exercise-induced arterial hypoxemia in adults with bronchopulmonary dysplasia. Journal of Applied Physiology, 2013, 115, 1050-1056.	2.5	39
34	Increased cardiac output, not pulmonary artery systolic pressure, increases intrapulmonary shunt in healthy humans breathing room air and 40% O₂. Journal of Physiology, 2014, 592, 4537-4553.	2.9	39
35	Counterpoint: Exercise-induced intrapulmonary shunting is real. Journal of Applied Physiology, 2009, 107, 994-997.	2.5	37
36	Premature birth affects the degree of airway dysanapsis and mechanical ventilatory constraints. Experimental Physiology, 2018, 103, 261-275.	2.0	34

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37	Intrapulmonary arteriovenous anastomoses in humans â€“ response to exercise and the environment. Journal of Physiology, 2015, 593, 507-520.	2.9	33
38	Repeat exercise normalizes the gas-exchange impairment induced by a previous exercise bout in asthmatic subjects. Journal of Applied Physiology, 2005, 99, 1843-1852.	2.5	31
39	Resting pulmonary haemodynamics and shunting: a comparison of seaâ€level inhabitants to high altitude Sherpas. Journal of Physiology, 2014, 592, 1397-1409.	2.9	31
40	AltitudeOmics: impaired pulmonary gas exchange efficiency and blunted ventilatory acclimatization in humans with patent foramen ovale after 16 days at 5,260 m. Journal of Applied Physiology, 2015, 118, 1100-1112.	2.5	31
41	Hypocapnia Decreases the Amount of Rapid Eye Movement Sleep in Cats. Sleep, 2003, 26, 961-967.	1.1	29
42	Exercise- and hypoxia-induced blood flow through intrapulmonary arteriovenous anastomoses is reduced in older adults. Journal of Applied Physiology, 2014, 116, 1324-1333.	2.5	29
43	AltitudeOmics: cerebral autoregulation during ascent, acclimatization, and re-exposure to high altitude and its relation with acute mountain sickness. Journal of Applied Physiology, 2014, 116, 724-729.	2.5	28
44	Tonic activity in the respiratory system in wakefulness, NREM and REM sleep. Sleep, 2002, 25, 488-96.	1.1	28
45	Effect of a patent foramen ovale on pulmonary gas exchange efficiency at rest and during exercise. Journal of Applied Physiology, 2011, 110, 1354-1361.	2.5	27
46	Sex Differences in VO2max and the Impact on Endurance-Exercise Performance. International Journal of Environmental Research and Public Health, 2022, 19, 4946.	2.6	27
47	Intrapulmonary Arteriovenous Anastomoses. Physiological, Pathophysiological, or Both?. Annals of the American Thoracic Society, 2013, 10, 504-508.	3.2	26
48	Decreased arterial , not O₂ content, increases blood flow through intrapulmonary arteriovenous anastomoses at rest. Journal of Physiology, 2016, 594, 4981-4996.	2.9	26
49	Exaggerated Increase in Pulmonary Artery Pressure during Exercise in Adults Born Preterm. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 821-823.	5.6	26
50	Unchanged cerebrovascular CO₂ reactivity and hypercapnic ventilatory response during strict headâ€down tilt bed rest in a mild hypercapnic environment. Journal of Physiology, 2020, 598, 2491-2505.	2.9	26
51	Hypoxia, not pulmonary vascular pressure, induces blood flow through intrapulmonary arteriovenous anastomoses. Journal of Physiology, 2015, 593, 723-737.	2.9	25
52	Ventilatory response of the cat to hypoxia in sleep and wakefulness. Journal of Applied Physiology, 2003, 95, 545-554.	2.5	24
53	AltitudeOmics: enhanced cerebrovascular reactivity and ventilatory response to CO₂ with high-altitude acclimatization and reexposure. Journal of Applied Physiology, 2014, 116, 911-918.	2.5	23
54	Intrapulmonary Shunt During Normoxic and Hypoxic Exercise in Healthy Humans. , 2006, 588, 31-45.		22

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55	AltitudeOmics: Baroreflex Sensitivity During Acclimatization to 5,260 m. Frontiers in Physiology, 2018, 9, 767.	2.8	21
56	Physiological aspects of cardiopulmonary dysanapsis on exercise in adults born preterm. Journal of Physiology, 2022, 600, 463-482.	2.9	20
57	Respiratory and cardiopulmonary limitations to aerobic exercise capacity in adults born preterm. Journal of Applied Physiology, 2020, 129, 718-724.	2.5	17
58	Mu and delta opioid receptor regulation of pro-opiomelanocortin peptide secretion from the rat neurointermediate pituitary in vitro. Neuropeptides, 2000, 34, 69-75.	2.2	16
59	Respiratory pattern generator model using Ca ++ -induced Ca ++ release in neurons shows both pacemaker and reciprocal network properties. Biological Cybernetics, 2003, 89, 274-288.	1.3	16
60	Clinical Consideration for Techniques to Detect and Quantify Blood Flow through Intrapulmonary Arteriovenous Anastomoses: Lessons from Physiological Studies. Echocardiography, 2015, 32, S195-204.	0.9	16
61	Excessive Gas Exchange Impairment during Exercise in A Subject with A History of Bronchopulmonary Dysplasia And High Altitude Pulmonary Edema. High Altitude Medicine and Biology, 2007, 8, 62-67.	0.9	14
62	Higher oesophageal temperature at rest and during exercise in humans with patent foramen ovale. Journal of Physiology, 2015, 593, 4615-4630.	2.9	14
63	Î±-Melanocyte-Stimulating Hormone and Habituation of Prey-Catching Behavior in the Texas Toad, Bufo speciosus. Hormones and Behavior, 1999, 36, 62-69.	2.1	13
64	Responses and Limitations of the Respiratory System to Exercise. Clinics in Chest Medicine, 2005, 26, 439-457.	2.1	12
65	Exercise-Induced Arterial Hypoxemia: Consequences For Locomotor Muscle Fatigue. , 2006, 588, 47-55.		12
66	Physiological impact of patent foramen ovale on pulmonary gas exchange, ventilatory acclimatization, and thermoregulation. Journal of Applied Physiology, 2016, 121, 512-517.	2.5	12
67	Sildenafil, nifedipine and acetazolamide do not allow for blood flow through intrapulmonary arteriovenous anastomoses during exercise while breathing 100% oxygen. Experimental Physiology, 2014, 99, 1636-1647.	2.0	11
68	Very Few Exercise-Induced Arterialized Gas Bubbles Reach the Cerebral Vasculature. Medicine and Science in Sports and Exercise, 2015, 47, 1798-1805.	0.4	11
69	AltitudeOmics: effect of reduced barometric pressure on detection of intrapulmonary shunt, pulmonary gas exchange efficiency, and total pulmonary resistance. Journal of Applied Physiology, 2018, 124, 1363-1376.	2.5	10
70	Alleviating mechanical constraints to ventilation with heliox improves exercise endurance in adult survivors of very preterm birth. Thorax, 2019, 74, 302-304.	5.6	10
71	Medullary Respiratory Neural Activity During Hypoxia in NREM and REM Sleep in the Cat. Journal of Neurophysiology, 2006, 95, 803-810.	1.8	9
72	AltitudeOmics: Resetting of Cerebrovascular CO2 Reactivity Following Acclimatization to High Altitude. Frontiers in Physiology, 2015, 6, 394.	2.8	9

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73	Tonic Activity in the Respiratory System in Wakefulness, NREM and REM Sleep. Sleep, 2002, , .	1.1	8
74	A neural ensemble model of the respiratory central pattern generator: properties of the minimal model. Neurocomputing, 2002, 44-46, 381-389.	5.9	8
75	Contrast Ultrasound Techniques in the Detection and Quantification of Patent Foramen Ovale: Myth Versus Realityâ€"A Clarification. Stroke, 2005, 36, 1109-1109.	2.0	7
76	Last Word on Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. Journal of Applied Physiology, 2009, 107, 1003-1003.	2.5	7
77	Decreased Endothelial Progenitor Cells in Preeclampsia and Consequences for Developmental Programming. Hypertension, 2014, 64, 23-25.	2.7	7
78	Bubble and macroaggregate methods differ in detection of blood flow through intrapulmonary arteriovenous anastomoses in upright and supine hypoxia in humans. Journal of Applied Physiology, 2017, 123, 1592-1598.	2.5	7
79	Effect of a patent foramen ovale in humans on thermal responses to passive cooling and heating. Journal of Applied Physiology, 2017, 123, 1423-1432.	2.5	7
80	Analysis of maximal expiratory flow-volume curves in adult survivors of preterm birth. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R588-R596.	1.8	7
81	Ventilatory responses to acute hypoxia and hypercapnia in humans with a patent foramen ovale. Journal of Applied Physiology, 2019, 126, 730-738.	2.5	7
82	Premature Aging and Increased Risk of Adult Cardiorespiratory Disease after Extreme Preterm Birth. Getting to the Heart (and Lungs) of the Matter. American Journal of Respiratory and Critical Care Medicine, 2020, 202, 319-320.	5.6	7
83	Temporal changes in pulmonary gas exchange efficiency when breathâ€hold diving below residual volume. Experimental Physiology, 2021, 106, 1120-1133.	2.0	7
84	Commentaries on Viewpoint: Why predominantly neurological DCS in breath-hold divers?. Journal of Applied Physiology, 2016, 120, 1478-1482.	2.5	6
85	Relationship between quantitative and descriptive methods of studying blood flow through intrapulmonary arteriovenous anastomoses during exercise. Respiratory Physiology and Neurobiology, 2017, 243, 47-54.	1.6	6
86	Impaired pulmonary gas exchange efficiency, but normal pulmonary artery pressure increases, with hypoxia in men and women with a patent foramen ovale. Experimental Physiology, 2020, 105, 1648-1659.	2.0	6
87	Tonic and phasic drive to medullary respiratory neurons during periodic breathing. Respiratory Physiology and Neurobiology, 2012, 181, 286-301.	1.6	5
88	Intrapulmonary arteriovenous anastomoses in humans with chronic obstructive pulmonary disease: implications for cryptogenic stroke?. Experimental Physiology, 2016, 101, 1128-1142.	2.0	5
89	Resting arterial hypoxaemia in subjects with chronic heart failure, pulmonary hypertension and patent foramen ovale. Experimental Physiology, 2016, 101, 657-670.	2.0	5
90	Reduced blood flow through intrapulmonary arteriovenous anastomoses during exercise in lowlanders acclimatizing to high altitude. Experimental Physiology, 2017, 102, 670-683.	2.0	5

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91	Characterization of blood flow through intrapulmonary arteriovenous anastomoses and patent foramen ovale at rest and during exercise in stroke and transient ischemic attack patients. Echocardiography, 2017, 34, 676-682.	0.9	5
92	Implications of a patent foramen ovale on environmental physiology and pathophysiology: Do we know the hole story?. Journal of Physiology, 2022, , .	2.9	5
93	Not hearing is believing: novel insight into cardiopulmonary function using agitated contrast and ultrasound. Journal of Applied Physiology, 2010, 109, 1290-1291.	2.5	4
94	Evolution of the plasma proteome of divers before and after a single SCUBA dive. Proteomics - Clinical Applications, 2017, 11, 1700016.	1.6	4
95	Differential Brain and Muscle Tissue Oxygenation Responses to Exercise in Tibetans Compared to Han Chinese. Frontiers in Physiology, 2021, 12, 617954.	2.8	4
96	Pulmonary Vascular Disease across the Life Span: A Call for Bridging Pediatric and Adult Cardiopulmonary Research and Care. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 1471-1473.	5.6	3
97	Alterations in brain and pituitary Î²-endorphin content in genetically epilepsy-prone rats. Epilepsy Research, 1998, 31, 113-122.	1.6	2
98	Precise rhythmicity in activity of neocortical, thalamic and brain stem neurons in behaving cats and rabbits. Behavioural Brain Research, 2006, 175, 27-42.	2.2	2
99	Plasma Î²â€Endorphin Concentrations During Natural and Artificially Induced Winter Hair Growth in Mink (Mustela vison). Annals of the New York Academy of Sciences, 1999, 885, 440-443.	3.8	2
100	No effect of patent foramen ovale on acute mountain sickness and pulmonary pressure in normobaric hypoxia. Experimental Physiology, 2022, 107, 122-132.	2.0	2
101	High prevalence of patent foramen ovale in recreational to elite breath hold divers. Journal of Science and Medicine in Sport, 2022, 25, 553-556.	1.3	2
102	AltitudeOmics: Spontaneous Baroreflex Sensitivity During Acclimatization to 5,260 m: A Comparison of Methods. Frontiers in Physiology, 2019, 10, 1505.	2.8	1
103	Effect Of Severe Hypoxia On Endurance Capacity And Quadriceps Muscle Fatigue In Healthy Humans. Medicine and Science in Sports and Exercise, 2005, 37, S296.	0.4	1
104	Adenosine Signaling-Mediated Metabolic Reprogramming Regulates Erythropoiesis. Blood, 2016, 128, 2437-2437.	1.4	1
105	Excessive Pulmonary Artery Systolic Pressure During Exercise in Adults with a History of Preterm Birth. Medicine and Science in Sports and Exercise, 2016, 48, 154-155.	0.4	1
106	VaPER: The Development of Spaceflight Associated Neuroâ€ocular Syndrome (SANS) During Hypercapnic 6Â° Headâ€Down Tilt Bed Rest; sans Sufficient Sleep?. FASEB Journal, 2018, 32, lb260.	0.5	1
107	Lower transfer factor of the lung for carbon monoxide in women with a patent foramen ovale. Experimental Physiology, 2022, , .	2.0	1
108	Patent Intrapulmonary Arteriovenous Anastomoses in COPD: A Role for Hypoxemia, Stroke, and Supplemental Oxygen?. Chest, 2011, 140, 538A.	0.8	0

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109	Reply to Van Liew and Vann. Journal of Applied Physiology, 2011, 110, 296-297.	2.5	0
110	Does The Presence & Size Of A Patent Foramen Ovale Affect Esophageal Temperature During Rest & Exercise?. Medicine and Science in Sports and Exercise, 2015, 47, 689.	0.4	0
111	Breathing Heliox Reduces Expiratory Flow Limitation And Improves Exercise Performance In Adult Survivors Of Very Preterm Birth. Medicine and Science in Sports and Exercise, 2015, 47, 723.	0.4	0
112	Reply from Jonathan E. Elliott, Joseph W. Duke, Jerold A. Hawn, John R. Halliwill and Andrew T. Lovering. Journal of Physiology, 2015, 593, 483-484.	2.9	0
113	Role of Circulating Inflammation in Regulating Pulmonary Pressure at Altitude. FASEB Journal, 2021, 35, .	0.5	0
114	Comparing Acute Mountain Sickness Definitions to Examine Differences in Systemic Inflammation. FASEB Journal, 2021, 35, .	0.5	0
115	Reduction in Pulmonary Arterial Pressure at Rest and During Exercise and Improvement in Gas Exchange Efficiency Following Percutaneous Closure of Patent Foramen Ovale. FASEB Journal, 2021, 35, .	0.5	0
116	Oxygen tension modulates transpulmonary passage of 50Î¼m solid microspheres under physiologic conditions in healthy rat lungs. FASEB Journal, 2006, 20, LB31.	0.5	0
117	Quantification of Intrapulmonary Anatomic Shunt Induced by Exercise in Healthy Humans. FASEB Journal, 2006, 20, A394.	0.5	0
118	Transpulmonary passage of 50Î¼m microspheres under physiologic perfusion pressures in fresh, healthy baboon and human lungs. FASEB Journal, 2006, 20, .	0.5	0
119	Diaphragmatic and Respiratory Neuronal Activities during the Restart of Breathing after Hypocapnic Apnea. FASEB Journal, 2007, 21, A558.	0.5	0
120	Gas bubble composition does not affect the detection of exerciseâ€induced intrapulmonary arteriovenous shunt in hypoxia, normoxia or hyperoxia. FASEB Journal, 2010, 24, 615.2.	0.5	0
121	Anticonvulsant and convulsant effects of cocaine in genetically epilepsyâ€prone rats. FASEB Journal, 2010, 24, 764.3.	0.5	0
122	Mechanisms of hypoxiaâ€induced intrapulmonary arteriovenous shunting in healthy humans at rest: arterial oxygen saturation or pulmonary artery systolic pressure?. FASEB Journal, 2010, 24, 1061.1.	0.5	0
123	Exerciseâ€induced flow limitation in adults with a history of bronchopulmonary dysplasia.. FASEB Journal, 2010, 24, .	0.5	0
124	Epinephrine opens intrapulmonary arteriovenous anastomoses in healthy humans at rest. FASEB Journal, 2012, 26, 1150.8.	0.5	0
125	Nifedipine does not open intrapulmonary arteriovenous anastomoses in healthy human subjects during exercise breathing 100% O 2. FASEB Journal, 2012, 26, 1138.46.	0.5	0
126	Direct demonstration that blood flow through intrapulmonary arteriovenous anastomoses worsens pulmonary gas exchange efficiency. FASEB Journal, 2013, 27, 723.7.	0.5	0

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127	Quantification of hypoxiaâ€induced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans at rest. FASEB Journal, 2013, 27, 715.8.	0.5	0
128	Do Humans With a Patent Foramen Ovale Have a Higher Core Body Temperature During Rest, Exercise and Postâ€Exercise?. FASEB Journal, 2013, 27, 1201.26.	0.5	0
129	Quantification of reduced blood flow through intrapulmonary arteriovenous anastomoses in healthy humans during exercise breathing 100% O 2. FASEB Journal, 2013, 27, 1141.4.	0.5	0
130	Decreased Arterial PO 2 , not O 2 Content, Increases Blood Flow Through Intrapulmonary Arteriovenous Anastomoses at Rest. FASEB Journal, 2015, 29, 1031.1.	0.5	0
131	Reduced Aerobic Exercise Capacity in Adults Born Very Low Birth Weight - No Small Matter!. American Journal of Respiratory and Critical Care Medicine, 2021, , .	5.6	0
132	Impact of Altitude on Cardiopulmonary and Right Ventricular Hemodynamics During Exercise. Advances in Pulmonary Hypertension, 2020, 19, 77-79.	0.1	0
133	Regulation of Hypoxic Pulmonary Vasoconstriction in Lowlanders and Healthy Andean Highlanders. Chest, 2022, 161, 878-879.	0.8	0