

# Andrew W Sheel

## List of Publications by Year in descending order

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Version: 2024-02-01

126  
papers

4,326  
citations

108046

37  
h-index

139680

61  
g-index

127  
all docs

127  
docs citations

127  
times ranked

3695  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sex Differences in Diaphragm Voluntary Activation after Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1167-1175.	0.2	6
2	Commentaries on Viewpoint: Consider iron status when making sex comparisons in human physiology. <i>Journal of Applied Physiology</i> , 2022, 132, 703-709.	1.2	1
3	Predictors of Expiratory Flow Limitation during Exercise in Healthy Males and Females. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 1428-1436.	0.2	5
4	software development TO OPTIMIZE THE minimal detectable difference IN huMAN AIRWAY IMAGES CAPTURED USING optical coherence tomography. <i>Clinical Physiology and Functional Imaging</i> , 2022, , .	0.5	0
5	Therapeutic hypothermia attenuates physiologic, histologic, and metabolomic markers of injury in a porcine model of acute respiratory distress syndrome. <i>Physiological Reports</i> , 2022, 10, e15286.	0.7	4
6	Face Masks and the Cardiorespiratory Response to Physical Activity in Health and Disease. <i>Annals of the American Thoracic Society</i> , 2021, 18, 399-407.	1.5	118
7	Sex differences in diaphragmatic fatigue: Effects of hypoxia during inspiratory loading. <i>Journal of Physiology</i> , 2021, 599, 1319-1333.	1.3	15
8	Reply to Beltrami. <i>Experimental Physiology</i> , 2021, 106, 791-792.	0.9	0
9	Partitioning the work of breathing during running and cycling using optoelectronic plethysmography. <i>Journal of Applied Physiology</i> , 2021, 130, 1460-1469.	1.2	1
10	Psychological mediators of exercise adherence among older adults in a group-based randomized trial.. <i>Health Psychology</i> , 2021, 40, 166-177.	1.3	10
11	Reliability of diaphragm voluntary activation measurements in healthy adults. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 247-256.	0.9	3
12	An integrative approach to the pulmonary physiology of exercise: when does biological sex matter?. <i>European Journal of Applied Physiology</i> , 2021, 121, 2377-2391.	1.2	12
13	Respiratory modulation of sympathetic vasomotor outflow during graded leg cycling. <i>Journal of Applied Physiology</i> , 2021, 131, 858-867.	1.2	3
14	Fiber optic endoscopic optical coherence tomography (OCT) to assess human airways: The relationship between anatomy and physiological function during dynamic exercise. <i>Physiological Reports</i> , 2021, 9, e14657.	0.7	8
15	Airway luminal area and the resistive work of breathing during exercise in healthy young females and males. <i>Journal of Applied Physiology</i> , 2021, 131, 1750-1761.	1.2	14
16	Case Studies in Physiology: Cardiopulmonary exercise testing and inspiratory muscle training in a 59-year-old, 4 years after an extrapleural pneumonectomy. <i>Journal of Applied Physiology</i> , 2021, 131, 1701-1707.	1.2	0
17	Cardiopulmonary Demand of 16-kg Kettlebell Snatches in Simulated Girevoy Sport. <i>Journal of Strength and Conditioning Research</i> , 2020, 34, 1625-1633.	1.0	6
18	Relationship between resting heart rate and arterial stiffness in patients with chronic obstructive pulmonary disease: Implications for pulmonary rehabilitation. <i>Canadian Journal of Respiratory, Critical Care, and Sleep Medicine</i> , 2020, 4, 83-90.	0.2	1

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19	Quantifying the mechanical work of breathing in men and women during rowing. <i>European Journal of Applied Physiology</i> , 2020, 120, 381-390.	1.2	2
20	Near-infrared spectroscopy measures of sternocleidomastoid blood flow during exercise and hyperpnoea. <i>Experimental Physiology</i> , 2020, 105, 2226-2237.	0.9	6
21	One and one is not always two: hypo- and hyper-additive effects of the chemoreflex during exercise. <i>Journal of Physiology</i> , 2020, 598, 2281-2282.	1.3	1
22	Commentaries on Viewpoint: Time to reconsider how ventilation is regulated above the respiratory compensation point during incremental exercise. <i>Journal of Applied Physiology</i> , 2020, 128, 1450-1455.	1.2	1
23	The effect of diaphragm fatigue on the multidimensional components of dyspnoea and diaphragm electromyography during exercise in healthy males. <i>Journal of Physiology</i> , 2020, 598, 3223-3237.	1.3	15
24	The hyperpnoea of exercise in health: Respiratory influences on neurovascular control. <i>Experimental Physiology</i> , 2020, 105, 1984-1989.	0.9	5
25	Mechanisms of respiratory modulation of cardiovascular control. <i>Journal of Applied Physiology</i> , 2020, 128, 212-213.	1.2	3
26	Diagnosis of Exercise-induced Bronchoconstriction in Swimmers: Context Matters. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 1855-1861.	0.2	4
27	Effect of increased inspiratory muscle work on blood flow to inactive and active limbs during submaximal dynamic exercise. <i>Experimental Physiology</i> , 2019, 104, 180-188.	0.9	21
28	Modelling the effects of age and sex on the resistive and viscoelastic components of the work of breathing during exercise. <i>Experimental Physiology</i> , 2019, 104, 1737-1745.	0.9	20
29	Breathing during exercise: There is no such thing as a free lunch. <i>Experimental Physiology</i> , 2019, 104, 1333-1334.	0.9	3
30	Respiratory muscles during exercise: mechanics, energetics, and fatigue. <i>Current Opinion in Physiology</i> , 2019, 10, 102-109.	0.9	17
31	Diaphragm fatigue and inspiratory muscle metaboreflex in men and women matched for absolute diaphragmatic work during pressure-threshold loading. <i>Journal of Physiology</i> , 2019, 597, 4797-4808.	1.3	19
32	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.	0.9	7
33	Sildenafil does not improve performance in 16.1 km cycle exercise time-trial in acute hypoxia. <i>PLoS ONE</i> , 2019, 14, e0210841.	1.1	6
34	Respiratory muscle training in athletes with cervical spinal cord injury: effects on cardiopulmonary function and exercise capacity. <i>Journal of Physiology</i> , 2019, 597, 3673-3685.	1.3	26
35	Pulmonary Physiology and Response to Exercise. , 2019, , 3-17.		0
36	Qualitative dimensions of exertional dyspnea in fibrotic interstitial lung disease. <i>Respiratory Physiology and Neurobiology</i> , 2019, 266, 1-8.	0.7	7

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37	Perfusion of Intrapulmonary Arteriovenous Anastomoses Is Not Related to VO <sub>2</sub> max in Hypoxia and Is Unchanged by Oral Sildenafil. <i>High Altitude Medicine and Biology</i> , 2019, 20, 399-406.	0.5	1
38	Sex Differences in the Pulmonary System Influence the Integrative Response to Exercise. <i>Exercise and Sport Sciences Reviews</i> , 2019, 47, 142-150.	1.6	41
39	Manipulation of mechanical ventilatory constraint during moderate intensity exercise does not influence dyspnoea in healthy older men and women. <i>Journal of Physiology</i> , 2019, 597, 1383-1399.	1.3	22
40	Exercise-induced arterial hypoxemia; some answers, more questions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2019, 44, 571-579.	0.9	18
41	Work of breathing influences muscle sympathetic nerve activity during semi-recumbent cycle exercise. <i>Acta Physiologica</i> , 2019, 225, e13212.	1.8	24
42	Effects of Age and Sex on Inspiratory Muscle Activation Patterns during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1882-1891.	0.2	22
43	Neurophysiological mechanisms of exertional dyspnoea in fibrotic interstitial lung disease. <i>European Respiratory Journal</i> , 2018, 51, 1701726.	3.1	28
44	Myocardial Infarction Injury in Patients with Chronic Lung Disease Entering Pulmonary Rehabilitation: Frequency and Association with Heart Rate Parameters. <i>PM and R</i> , 2018, 10, 917-925.	0.9	1
45	Sex-differences in the human respiratory system and their impact on resting pulmonary function and the integrative response to exercise. <i>Current Opinion in Physiology</i> , 2018, 6, 21-27.	0.9	35
46	Cerebral blood flow, frontal lobe oxygenation and intra-arterial blood pressure during sprint exercise in normoxia and severe acute hypoxia in humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 136-150.	2.4	55
47	Premature birth affects the degree of airway dysanapsis and mechanical ventilatory constraints. <i>Experimental Physiology</i> , 2018, 103, 261-275.	0.9	34
48	Work of Breathing Influences Muscle Sympathetic Nerve Activity During Whole-Body Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 122.	0.2	2
49	Effect of diaphragm fatigue on subsequent exercise tolerance in healthy men and women. <i>Journal of Applied Physiology</i> , 2018, 125, 1987-1996.	1.2	28
50	Sex differences in diaphragmatic fatigue: the cardiovascular response to inspiratory resistance. <i>Journal of Physiology</i> , 2018, 596, 4017-4032.	1.3	45
51	Temporal characteristics of exercise-induced diaphragmatic fatigue. <i>Journal of Applied Physiology</i> , 2018, 124, 906-914.	1.2	15
52	Competition for blood flow distribution between respiratory and locomotor muscles: implications for muscle fatigue. <i>Journal of Applied Physiology</i> , 2018, 125, 820-831.	1.2	87
53	Does competitive swimming affect lung growth?. <i>Physiological Reports</i> , 2018, 6, e13816.	0.7	12
54	The effects of age and sex on mechanical ventilatory constraint and dyspnea during exercise in healthy humans. <i>Journal of Applied Physiology</i> , 2018, 124, 1092-1106.	1.2	50

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55	Group-based physical activity for older adults (GOAL) randomized controlled trial: Exercise adherence outcomes.. Health Psychology, 2018, 37, 451-461.	1.3	68
56	Oral contraceptives modulate the muscle metaboreflex in healthy young women. Applied Physiology, Nutrition and Metabolism, 2018, 43, 460-466.	0.9	16
57	Exercise-induced quadriceps muscle fatigue in men and women: effects of arterial oxygen content and respiratory muscle work. Journal of Physiology, 2017, 595, 5227-5244.	1.3	44
58	Reliability of the diaphragmatic compound muscle action potential evoked by cervical magnetic stimulation and recorded via chest wall surface EMG. Respiratory Physiology and Neurobiology, 2017, 243, 101-106.	0.7	20
59	Effects of hyperoxia on dyspnoea and exercise endurance in fibrotic interstitial lung disease. European Respiratory Journal, 2017, 49, 1602494.	3.1	45
60	Lung volume recruitment acutely increases respiratory system compliance in individuals with severe respiratory muscle weakness. ERJ Open Research, 2017, 3, 00135-2016.	1.1	23
61	Effects of respiratory muscle work on respiratory and locomotor blood flow during exercise. Experimental Physiology, 2017, 102, 1535-1547.	0.9	95
62	Influence of inspiratory resistive loading on expiratory muscle fatigue in healthy humans. Experimental Physiology, 2017, 102, 1221-1233.	0.9	6
63	Classical experiments in whole-body metabolism: closed-circuit respirometry. European Journal of Applied Physiology, 2017, 117, 1929-1937.	1.2	6
64	Diaphragm Recruitment Increases during a Bout of Targeted Inspiratory Muscle Training. Medicine and Science in Sports and Exercise, 2016, 48, 1179-1186.	0.2	39
65	Functional respiratory imaging, regional strain, and expiratory time constants at three levels of positive end expiratory pressure in an exAvivo pig model. Physiological Reports, 2016, 4, e13059.	0.7	3
66	A proportional assist ventilator to unload respiratory muscles experimentally during exercise in humans. Experimental Physiology, 2016, 101, 754-767.	0.9	11
67	Pulse wave velocity measurements in moderate to severe chronic obstructive pulmonary disease: A test-retest reliability study. International Journal of Cardiology, 2016, 203, 301-302.	0.8	2
68	The effect of consistent practice of yogic breathing exercises on the human cardiorespiratory system. Respiratory Physiology and Neurobiology, 2016, 233, 41-51.	0.7	6
69	Revisiting dysanapsis: sex-based differences in airways and the mechanics of breathing during exercise. Experimental Physiology, 2016, 101, 213-218.	0.9	69
70	Effect of tidal volume and positive end-expiratory pressure on expiratory time constants in experimental lung injury. Physiological Reports, 2016, 4, e12737.	0.7	10
71	Sex differences in the physiology of exercise: an integrative perspective. Experimental Physiology, 2016, 101, 211-212.	0.9	29
72	Reply to Topalovic and Janssens. Respiratory Physiology and Neurobiology, 2016, 227, 68.	0.7	0

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73	Quantifying the shape of maximal expiratory flow-volume curves in healthy humans and asthmatic patients. <i>Respiratory Physiology and Neurobiology</i> , 2016, 220, 46-53.	0.7	10
74	Age-related changes to wheelchair efficiency and sprint power output in novice able-bodied males. <i>Ergonomics</i> , 2016, 59, 291-297.	1.1	3
75	Changes in cerebral vascular reactivity and structure following prolonged exposure to high altitude in humans. <i>Physiological Reports</i> , 2015, 3, e12647.	0.7	14
76	Gas density alters expiratory time constants before and after experimental lung injury. <i>Experimental Physiology</i> , 2015, 100, 1217-1228.	0.9	4
77	Dysanapsis and the resistive work of breathing during exercise in healthy men and women. <i>Journal of Applied Physiology</i> , 2015, 119, 1105-1113.	1.2	66
78	Limitations to oxygen transport and utilization during sprint exercise in humans: evidence for a functional reserve in muscle O <sub>2</sub> diffusing capacity. <i>Journal of Physiology</i> , 2015, 593, 4649-4664.	1.3	70
79	Heliox breathing equally influences respiratory mechanics and cycling performance in trained males and females. <i>Journal of Applied Physiology</i> , 2015, 118, 255-264.	1.2	16
80	Oxygen cost of exercise hyperpnoea is greater in women compared with men. <i>Journal of Physiology</i> , 2015, 593, 1965-1979.	1.3	108
81	Quantifying the shape of the maximal expiratory flow-volume curve in mild COPD. <i>Respiratory Physiology and Neurobiology</i> , 2015, 219, 30-35.	0.7	27
82	GrOup based physical Activity for oLder adults (GOAL) randomized controlled trial: study protocol. <i>BMC Public Health</i> , 2015, 15, 592.	1.2	14
83	Day-to-day variability in cardiorespiratory responses to hypoxic cycle exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 155-161.	0.9	8
84	Administration of intrapulmonary sodium polyacrylate to induce lung injury for the development of a porcine model of early acute respiratory distress syndrome. <i>Intensive Care Medicine Experimental</i> , 2014, 2, 5.	0.9	3
85	Quantification of Improvements in Static and Dynamic Ventilatory Measures Following Lung Volume Reduction Surgery for Severe COPD. <i>Chronic Obstructive Pulmonary Diseases (Miami, Fla )</i> , 2014, 2, 61-69.	0.5	3
86	Haematological acclimation and re-acclimation to hypoxia in the mouse. <i>Respiratory Physiology and Neurobiology</i> , 2013, 189, 153-161.	0.7	5
87	Exercise-induced arterial hypoxaemia and the mechanics of breathing in healthy young women. <i>Journal of Physiology</i> , 2013, 591, 3017-3034.	1.3	78
88	Resting and exercise ventilatory chemosensitivity across the menstrual cycle. <i>Journal of Applied Physiology</i> , 2012, 112, 737-747.	1.2	97
89	Ventilation and Respiratory Mechanics. , 2012, 2, 1093-1142.		64
90	Experimental approaches to the study of the mechanics of breathing during exercise. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 147-161.	0.7	41

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91	Pulmonary mechanics during mechanical ventilation. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 162-172.	0.7	36
92	Limitations of respiratory muscle and vastus lateralis blood flow during continuous exercise. <i>Respiratory Physiology and Neurobiology</i> , 2012, 181, 302-307.	0.7	9
93	Exercise and its impact on dyspnea. <i>Current Opinion in Pharmacology</i> , 2011, 11, 195-203.	1.7	28
94	Diaphragm Fatigue after Submaximal Exercise with Chest Wall Restriction. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 416-424.	0.2	30
95	Determinants of Expiratory Flow Limitation in Healthy Women during Exercise. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 1666-1674.	0.2	45
96	Blood flow index using near-infrared spectroscopy and indocyanine green as a minimally invasive tool to assess respiratory muscle blood flow in humans. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R984-R992.	0.9	25
97	Sex differences in exercise-induced diaphragmatic fatigue in endurance-trained athletes. <i>Journal of Applied Physiology</i> , 2010, 109, 35-46.	1.2	106
98	Effect of thoracic gas compression and bronchodilation on the assessment of expiratory flow limitation during exercise in healthy humans. <i>Respiratory Physiology and Neurobiology</i> , 2010, 170, 279-286.	0.7	60
99	The pulmonary system during exercise in hypoxia and the cold. <i>Experimental Physiology</i> , 2010, 95, 422-430.	0.9	17
100	Counterpoint: Pulmonary edema does not occur in human athletes performing heavy sea-level exercise. <i>Journal of Applied Physiology</i> , 2010, 109, 1272-1273.	1.2	12
101	Sex differences in the resistive and elastic work of breathing during exercise in endurance-trained athletes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R166-R175.	0.9	75
102	Evidence for dysanapsis using computed tomographic imaging of the airways in older ex-smokers. <i>Journal of Applied Physiology</i> , 2009, 107, 1622-1628.	1.2	112
103	A chilly breeze leads to heavy breathing - facial cooling and the human peripheral chemoreflex. <i>Acta Physiologica</i> , 2008, 194, 95-95.	1.8	0
104	Hypoxia and exercise: different models for different questions. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 571-572.	0.9	0
105	Control of ventilation in humans following intermittent hypoxia. <i>Applied Physiology, Nutrition and Metabolism</i> , 2008, 33, 573-581.	0.9	12
106	Effects of Exercise Training and Inspiratory Muscle Training in Spinal Cord Injury: A Systematic Review. <i>Journal of Spinal Cord Medicine</i> , 2008, 31, 500-508.	0.7	46
107	Mechanics of Breathing during Exercise in Men and Women. <i>Exercise and Sport Sciences Reviews</i> , 2008, 36, 128-134.	1.6	49
108	Regulation of Cerebral Blood Flow During Exercise. <i>Sports Medicine</i> , 2007, 37, 765-782.	3.1	249



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109	Respiratory mechanics during exercise in endurance-trained men and women. <i>Journal of Physiology</i> , 2007, 581, 1309-1322.	1.3	175
110	Inspiratory muscle training attenuates the human respiratory muscle metaboreflex. <i>Journal of Physiology</i> , 2007, 584, 1019-1028.	1.3	169
111	Human ventilatory responsiveness to hypoxia is unrelated to maximal aerobic capacity. <i>Journal of Applied Physiology</i> , 2006, 100, 1204-1209.	1.2	10
112	Autonomic dysreflexia during sperm retrieval in spinal cord injury: influence of lesion level and sildenafil citrate. <i>Journal of Applied Physiology</i> , 2005, 99, 53-58.	1.2	91
113	Effects of Physical Activity on Exercise Capacity in Twins With $\alpha$ -1 Antitrypsin Deficiency. <i>Clinical Journal of Sport Medicine</i> , 2005, 15, 183-185.	0.9	1
114	Enhancement of the human inspiratory pressure-flow relationship via the stretch-shortening cycle. <i>Acta Physiologica Scandinavica</i> , 2005, 185, 169-169.	2.3	0
115	Repeated measurement of hypoxic ventilatory response as an intermittent hypoxic stimulus. <i>Respiratory Physiology and Neurobiology</i> , 2005, 145, 33-39.	0.7	17
116	Sex Differences in Respiratory Exercise Physiology. <i>Sports Medicine</i> , 2004, 34, 567-579.	3.1	75
117	Acute hypoxic ventilatory response and exercise-induced arterial hypoxemia in men and women. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 37-48.	0.7	42
118	Prevalence of Exercise-Induced Arterial Hypoxemia in Healthy Women. <i>Medicine and Science in Sports and Exercise</i> , 2004, 36, 1514-1521.	0.2	61
119	Physiological Responses to Indoor Rock-Climbing and Their Relationship to Maximal Cycle Ergometry. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 1225-1231.	0.2	82
120	Threshold effects of respiratory muscle work on limb vascular resistance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002, 282, H1732-H1738.	1.5	86
121	Effects of expiratory muscle work on muscle sympathetic nerve activity. <i>Journal of Applied Physiology</i> , 2002, 92, 1539-1552.	1.2	88
122	Respiratory Muscle Training in Healthy Individuals. <i>Sports Medicine</i> , 2002, 32, 567-581.	3.1	117
123	Respiratory influences on sympathetic vasomotor outflow in humans. <i>Respiratory Physiology and Neurobiology</i> , 2002, 130, 3-20.	0.7	133
124	Fatiguing inspiratory muscle work causes reflex reduction in resting leg blood flow in humans. <i>Journal of Physiology</i> , 2001, 537, 277-289.	1.3	240
125	Exhaled Nitric Oxide During Exercise. <i>Sports Medicine</i> , 1999, 28, 83-90.	3.1	13
126	Influence of respiratory loading on left ventricular function in cervical spinal cord injury. <i>Journal of Physiology</i> , 0, , .	1.3	2