

Susan R Hopkins

List of Publications by Year in descending order

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109
papers

4,246
citations

81900

39
h-index

123424

61
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116
all docs

116
docs citations

116
times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense exercise impairs the integrity of the pulmonary blood-gas barrier in elite athletes.. American Journal of Respiratory and Critical Care Medicine, 1997, 155, 1090-1094.	5.6	205
2	Vertical gradients in regional lung density and perfusion in the supine human lung: the Slinky effect. Journal of Applied Physiology, 2007, 103, 240-248.	2.5	190
3	Pulmonary Blood Flow Heterogeneity during Hypoxia and High-Altitude Pulmonary Edema. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 83-87.	5.6	161
4	Evidence of Skeletal Muscle Metabolic Reserve During Whole Body Exercise in Patients with Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 1999, 159, 881-885.	5.6	150
5	Pulmonary gas exchange during exercise in athletes. I. Ventilation-perfusion mismatch and diffusion limitation. Journal of Applied Physiology, 1994, 77, 912-917.	2.5	124
6	Face Masks and the Cardiorespiratory Response to Physical Activity in Health and Disease. Annals of the American Thoracic Society, 2021, 18, 399-407.	3.2	118
7	Pulmonary perfusion in the prone and supine postures in the normal human lung. Journal of Applied Physiology, 2007, 103, 883-894.	2.5	116
8	Sleep Hygiene for Optimizing Recovery in Athletes: Review and Recommendations. International Journal of Sports Medicine, 2019, 40, 535-543.	1.7	108
9	Pulmonary hemodynamic response to exercise in subjects with prior high-altitude pulmonary edema. Journal of Applied Physiology, 1996, 81, 911-921.	2.5	107
10	Vertical distribution of specific ventilation in normal supine humans measured by oxygen-enhanced proton MRI. Journal of Applied Physiology, 2010, 109, 1950-1959.	2.5	105
11	Effect of prolonged, heavy exercise on pulmonary gas exchange in athletes. Journal of Applied Physiology, 1998, 85, 1523-1532.	2.5	101
12	The gravitational distribution of ventilation-perfusion ratio is more uniform in prone than supine posture in the normal human lung. Journal of Applied Physiology, 2013, 115, 313-324.	2.5	98
13	Validity of pulse oximetry during maximal exercise in normoxia, hypoxia, and hyperoxia. Journal of Applied Physiology, 2002, 92, 162-168.	2.5	96
14	Pulmonary gas exchange during exercise in women: effects of exercise type and work increment. Journal of Applied Physiology, 2000, 89, 721-730.	2.5	93
15	Quantitative MRI measurement of lung density must account for the change in ρ with lung inflation. Journal of Magnetic Resonance Imaging, 2009, 30, 527-534.	3.4	87
16	Does gender affect human pulmonary gas exchange during exercise?. Journal of Physiology, 2004, 557, 529-541.	2.9	86
17	Imaging lung perfusion. Journal of Applied Physiology, 2012, 113, 328-339.	2.5	86
18	Pulmonary Gas Exchange and Acid-Base Balance During Exercise. , 2013, 3, 693-739.		76

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19	Pulmonary gas exchange during exercise in highly trained cyclists with arterial hypoxemia. <i>Journal of Applied Physiology</i> , 1999, 87, 1802-1812.	2.5	75
20	Effects of intermittent hypoxia on the isocapnic hypoxic ventilatory response and erythropoiesis in humans. <i>Respiration Physiology</i> , 2000, 123, 39-49.	2.7	75
21	Exercise-induced VA/Q inequality in subjects with prior high-altitude pulmonary edema. <i>Journal of Applied Physiology</i> , 1996, 81, 922-932.	2.5	74
22	Pulmonary transit time and diffusion limitation during heavy exercise in athletes. <i>Respiration Physiology</i> , 1996, 103, 67-73.	2.7	73
23	Gender and Pulmonary Gas Exchange During Exercise. <i>Exercise and Sport Sciences Reviews</i> , 2004, 32, 50-56.	3.0	67
24	Advances in magnetic resonance imaging of lung physiology. <i>Journal of Applied Physiology</i> , 2007, 102, 1244-1254.	2.5	66
25	Sustained submaximal exercise does not alter the integrity of the lung blood-gas barrier in elite athletes. <i>Journal of Applied Physiology</i> , 1998, 84, 1185-1189.	2.5	61
26	Time domains of the hypoxic ventilatory response in awake ducks: episodic and continuous hypoxia. <i>Respiration Physiology</i> , 2001, 124, 117-128.	2.7	57
27	Measurement of cardiac output during exercise by open-circuit acetylene uptake. <i>Journal of Applied Physiology</i> , 1999, 87, 1506-1512.	2.5	56
28	Effects of age on pulmonary perfusion heterogeneity measured by magnetic resonance imaging. <i>Journal of Applied Physiology</i> , 2007, 102, 2064-2070.	2.5	54
29	Effect of prolonged heavy exercise on pulmonary gas exchange in horses. <i>Journal of Applied Physiology</i> , 1998, 84, 1723-1730.	2.5	52
30	Hypoxic pulmonary vasoconstriction does not contribute to pulmonary blood flow heterogeneity in normoxia in normal supine humans. <i>Journal of Applied Physiology</i> , 2009, 106, 1057-1064.	2.5	52
31	Early brain swelling in acute hypoxia. <i>Journal of Applied Physiology</i> , 2009, 107, 244-252.	2.5	50
32	Lung perfusion measured using magnetic resonance imaging: New tools for physiological insights into the pulmonary circulation. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 32, 1287-1301.	3.4	50
33	Adrenergic or parasympathetic inhibition, heart rate and cardiac output during normoxic and acute hypoxic exercise in humans. <i>Journal of Physiology</i> , 2003, 550, 605-616.	2.9	49
34	Exercise Induced Arterial Hypoxemia: The role of Ventilation-Perfusion Inequality and Pulmonary Diffusion Limitation. , 2006, 588, 17-30.		49
35	Advances in functional and structural imaging of the human lung using proton MRI. <i>NMR in Biomedicine</i> , 2014, 27, 1542-1556.	2.8	49
36	Effect of acetazolamide on pulmonary and muscle gas exchange during normoxic and hypoxic exercise. <i>Journal of Physiology</i> , 2007, 579, 909-921.	2.9	48

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37	Pulmonary perfusion heterogeneity is increased by sustained, heavy exercise in humans. <i>Journal of Applied Physiology</i> , 2009, 107, 1559-1568.	2.5	48
38	Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. <i>Journal of Applied Physiology</i> , 2009, 107, 993-994.	2.5	48
39	Characterizing pulmonary blood flow distribution measured using arterial spin labeling. <i>NMR in Biomedicine</i> , 2009, 22, 1025-1035.	2.8	45
40	Effects of Inhaled Nitric Oxide on Gas Exchange in Lungs with Shunt or Poorly Ventilated Areas. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1997, 156, 484-491.	5.6	44
41	Validating the distribution of specific ventilation in healthy humans measured using proton MR imaging. <i>Journal of Applied Physiology</i> , 2014, 116, 1048-1056.	2.5	44
42	The Laboratory Assessment of Endurance Performance in Cyclists. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1994, 19, 266-274.	1.7	34
43	Role of the autonomic nervous system in the reduced maximal cardiac output at altitude. <i>Journal of Applied Physiology</i> , 2002, 93, 271-279.	2.5	33
44	Luminance contrast of a visual stimulus modulates the BOLD response more than the cerebral blood flow response in the human brain. <i>NeuroImage</i> , 2013, 64, 104-111.	4.2	33
45	Pulmonary gas exchange during exercise in pigs. <i>Journal of Applied Physiology</i> , 1999, 86, 93-100.	2.5	32
46	Increased hypoxic ventilatory response during 8 weeks at 3800 m altitude. <i>Respiratory Physiology and Neurobiology</i> , 2004, 142, 145-152.	1.6	32
47	Intermittent vs continuous hypoxia: effects on ventilation and erythropoiesis in humans. <i>Wilderness and Environmental Medicine</i> , 2000, 11, 172-179.	0.9	31
48	Measuring lung water: Ex vivo validation of multi-echo gradient echo MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 220-224.	3.4	31
49	Regional cerebral blood flow during acute hypoxia in individuals susceptible to acute mountain sickness. <i>Respiratory Physiology and Neurobiology</i> , 2008, 160, 267-276.	1.6	30
50	Inhaled nitric oxide alters the distribution of blood flow in the healthy human lung, suggesting active hypoxic pulmonary vasoconstriction in normoxia. <i>Journal of Applied Physiology</i> , 2015, 118, 331-343.	2.5	30
51	Steep head-down tilt has persisting effects on the distribution of pulmonary blood flow. <i>Journal of Applied Physiology</i> , 2006, 101, 583-589.	2.5	28
52	Rapid intravenous infusion of 20 ml/kg saline does not impair resting pulmonary gas exchange in the healthy human lung. <i>Journal of Applied Physiology</i> , 2010, 108, 53-59.	2.5	26
53	Persistence of the Lactate Paradox over 8 Weeks at 3800 m. <i>High Altitude Medicine and Biology</i> , 2003, 4, 431-443.	0.9	25
54	Point: Pulmonary edema does occur in human athletes performing heavy sea-level exercise. <i>Journal of Applied Physiology</i> , 2010, 109, 1270-1272.	2.5	23

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55	Lung volume does not alter the distribution of pulmonary perfusion in dependent lung in supine humans. <i>Journal of Physiology</i> , 2010, 588, 4759-4768.	2.9	22
56	Ibuprofen Blunts Ventilatory Acclimatization to Sustained Hypoxia in Humans. <i>PLoS ONE</i> , 2016, 11, e0146087.	2.5	22
57	Measurement of the distribution of ventilation-perfusion ratios in the human lung with proton MRI: comparison with the multiple inert-gas elimination technique. <i>Journal of Applied Physiology</i> , 2017, 123, 136-146.	2.5	20
58	A Pig Model of High Altitude Pulmonary Edema. <i>High Altitude Medicine and Biology</i> , 2003, 4, 465-474.	0.9	19
59	Effects of surgical and FFP2/N95 face masks on cardiopulmonary exercise capacity: the numbers do not add up. <i>Clinical Research in Cardiology</i> , 2020, 109, 1605-1606.	3.3	19
60	Human autonomic activity and its response to acute oxygen supplement after high altitude acclimatization. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002, 102, 54-59.	2.8	17
61	Ventilation-perfusion inequality during normoxic and hypoxic exercise in the emu. <i>Journal of Applied Physiology</i> , 2002, 93, 1980-1986.	2.5	17
62	Heterogeneous pulmonary blood flow in response to hypoxia: A risk factor for high altitude pulmonary edema?. <i>Respiratory Physiology and Neurobiology</i> , 2006, 151, 217-228.	1.6	17
63	Spatial-temporal dynamics of pulmonary blood flow in the healthy human lung in response to altered FiO ₂ . <i>Journal of Applied Physiology</i> , 2013, 114, 107-118.	2.5	17
64	The Multiple Inert Gas Elimination Technique (MIGET)., 2017, , .		17
65	Magnetic Resonance Imaging Quantification of Pulmonary Perfusion using Calibrated Arterial Spin Labeling. <i>Journal of Visualized Experiments</i> , 2011, , .	0.3	14
66	The effect of altering pulmonary blood flow on pulmonary gas exchange in the turtle <i>Trachemys (Pseudemys) scripta</i> . <i>Journal of Experimental Biology</i> , 1996, 199, 2207-14.	1.7	14
67	Affine transformation registers small scale lung deformation. , 2012, 2012, 5298-301.		13
68	Hypoxia has a greater effect than exercise on the redistribution of pulmonary blood flow in swine. <i>Journal of Applied Physiology</i> , 2007, 103, 2112-2119.	2.5	12
69	Last Word on Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. <i>Journal of Applied Physiology</i> , 2009, 107, 1002-1002.	2.5	12
70	The heterogeneity of regional specific ventilation is unchanged following heavy exercise in athletes. <i>Journal of Applied Physiology</i> , 2013, 115, 126-135.	2.5	12
71	Intra- pulmonary arteriovenous anastomoses and pulmonary gas exchange: evaluation by microspheres, contrast echocardiography and inert gas elimination. <i>Journal of Physiology</i> , 2019, 597, 5365-5384.	2.9	12
72	Comparative Physiology of Lung Complexity: Implications for Gas Exchange. <i>Physiology</i> , 2004, 19, 55-60.	3.1	11

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73	Physiology for the pulmonary functional imager. <i>European Journal of Radiology</i> , 2017, 86, 308-312.	2.6	10
74	Vaping disrupts ventilation-perfusion matching in asymptomatic users. <i>Journal of Applied Physiology</i> , 2021, 130, 308-317.	2.5	10
75	Stress failure and high-altitude pulmonary oedema: mechanistic insights from physiology. <i>European Respiratory Journal</i> , 2010, 35, 470-472.	6.7	9
76	The effect of supine exercise on the distribution of regional pulmonary blood flow measured using proton MRI. <i>Journal of Applied Physiology</i> , 2014, 116, 451-461.	2.5	9
77	A statistical clustering approach to discriminating perfusion from conduit vessel signal contributions in a pulmonary ASL MR image. <i>NMR in Biomedicine</i> , 2015, 28, 1117-1124.	2.8	9
78	Ventilation/Perfusion Relationships and Gas Exchange: Measurement Approaches. , 2020, 10, 1155-1205.		9
79	Functional Magnetic Resonance Imaging of the Lung. <i>Journal of Thoracic Imaging</i> , 2004, 19, 228-234.	1.5	8
80	The Lung at Maximal Exercise: Insights from Comparative Physiology. <i>Clinics in Chest Medicine</i> , 2005, 26, 459-468.	2.1	8
81	Vertebrate life at high altitude. , 2010, , 265-299.		8
82	Rapid intravenous infusion of 20mL/kg saline alters the distribution of perfusion in healthy supine humans. <i>Respiratory Physiology and Neurobiology</i> , 2012, 180, 331-341.	1.6	8
83	Prone positioning redistributes gravitational stress in the lung in normal conditions and in simulations of oedema. <i>Experimental Physiology</i> , 2022, 107, 771-782.	2.0	8
84	Susceptibility to high-altitude pulmonary edema is associated with a more uniform distribution of regional specific ventilation. <i>Journal of Applied Physiology</i> , 2017, 122, 844-852.	2.5	7
85	Heavy upright exercise increases ventilation-perfusion mismatch in the basal lung: indirect evidence for interstitial pulmonary edema. <i>Journal of Applied Physiology</i> , 2019, 127, 473-481.	2.5	7
86	Regional pulmonary perfusion patterns in humans are not significantly altered by inspiratory hypercapnia. <i>Journal of Applied Physiology</i> , 2019, 127, 365-375.	2.5	7
87	Tidal volume dependency of gas exchange in bronchoconstricted pig lungs. <i>Journal of Applied Physiology</i> , 2007, 103, 148-155.	2.5	6
88	Ventilation heterogeneity measured by multiple breath inert gas testing is not affected by inspired oxygen concentration in healthy humans. <i>Journal of Applied Physiology</i> , 2017, 122, 1379-1387.	2.5	6
89	Peripheral chemoresponsiveness during exercise in male athletes with exercise-induced arterial hypoxaemia. <i>Experimental Physiology</i> , 2020, 105, 1960-1970.	2.0	6
90	Impact of obstructive sleep apnea on cardiopulmonary performance, endothelial dysfunction, and pulmonary hypertension during exercise. <i>Respiratory Physiology and Neurobiology</i> , 2021, 283, 103557.	1.6	6

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91	Last Word on Point:Counterpoint: Pulmonary edema does occur in human athletes performing heavy sea-level exercise. <i>Journal of Applied Physiology</i> , 2010, 109, 1281-1281.	2.5	5
92	The effect of lung deformation on the spatial distribution of pulmonary blood flow. <i>Journal of Physiology</i> , 2016, 594, 6333-6347.	2.9	5
93	Moderate to high levels of exercise are associated with higher resting energy expenditure in community-dwelling postmenopausal women. <i>Applied Physiology, Nutrition and Metabolism</i> , 2013, 38, 1147-1153.	1.9	4
94	Abnormal pulmonary perfusion heterogeneity in patients with Fontan circulation and pulmonary arterial hypertension. <i>Journal of Physiology</i> , 2021, 599, 343-356.	2.9	4
95	Positive Bubble Study in Severe COVID-19: Bubbles May Be Unrelated to Gas Exchange Impairment. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 389-390.	5.6	4
96	Ventilation-perfusion heterogeneity measured by the multiple inert gas elimination technique is minimally affected by intermittent breathing of 100% O ₂ . <i>Physiological Reports</i> , 2020, 8, e14488.	1.7	4
97	Lung Function and Gas Exchange. , 2014, , 57-83.		3
98	Respiratory Factors Limiting Maximal Aerobic Exercise. <i>Clinical Journal of Sport Medicine</i> , 1993, 3, 174-185.	1.8	2
99	Review of the MIGET Literature. , 2017, , 145-233.		2
100	Comments on Point:Counterpoint: High altitude is/is not for the birds!. <i>Journal of Applied Physiology</i> , 2011, 111, 1520-1524.	2.5	1
101	Pulmonary Gas Exchange. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2013, 5, 1-86.	0.3	1
102	Case Studies in Physiology: The Case of the Giant Giraffe. <i>Journal of Applied Physiology</i> , 2016, 121, 1379-1380.	2.5	1
103	Precapillary pulmonary gas exchange is similar for oxygen and inert gases. <i>Journal of Physiology</i> , 2019, 597, 5385-5397.	2.9	1
104	Lactate Metabolism at High Altitude: A Reply. <i>High Altitude Medicine and Biology</i> , 2004, 5, 197-198.	0.9	0
105	The effect of incomplete acetylene washout on cardiac output measurement using open circuit acetylene uptake. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 177-183.	1.6	0
106	Fat Oxidation and Aerobic Fitness in Postmenopausal Women. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 435.	0.4	0
107	Basics of Ventilation/Perfusion Abnormalities in Critically Ill Ventilated Patients. , 2021, , 189-204.		0
108	Effects of non-steroid anti-inflammatory drugs on the human hypoxic ventilatory response and acclimatization. <i>FASEB Journal</i> , 2012, 26, 1150.2.	0.5	0

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109	MIGET: Practical Aspects. , 2017, , 109-143.		0