Susan R Hopkins

List of Publications by Year
in descending order

109 papers	4,246 citations	81839 39 h-index	123376 61 g-index
116 all docs	116 docs citations	116 times ranked	3065 citing authors

#	Article	IF	Citations
1	Prone positioning redistributes gravitational stress in the lung in normal conditions and in simulations of oedema. Experimental Physiology, 2022, 107, 771-782.	0.9	8
2	Impact of obstructive sleep apnea on cardiopulmonary performance, endothelial dysfunction, and pulmonary hypertension during exercise. Respiratory Physiology and Neurobiology, 2021, 283, 103557.	0.7	6
3	Abnormal pulmonary perfusion heterogeneity in patients with Fontan circulation and pulmonary arterial hypertension. Journal of Physiology, 2021, 599, 343-356.	1.3	4
4	Face Masks and the Cardiorespiratory Response to Physical Activity in Health and Disease. Annals of the American Thoracic Society, 2021, 18, 399-407.	1.5	118
5	Positive Bubble Study in Severe COVID-19: Bubbles May Be Unrelated to Gas Exchange Impairment. American Journal of Respiratory and Critical Care Medicine, 2021, 203, 389-390.	2.5	4
6	Vaping disrupts ventilation-perfusion matching in asymptomatic users. Journal of Applied Physiology, 2021, 130, 308-317.	1.2	10
7	Basics of Ventilation/Perfusion Abnormalities in Critically Ill Ventilated Patients. , 2021, , 189-204.		0
8	Effects of surgical and FFP2/N95 face masks on cardiopulmonary exercise capacity: the numbers do not add up. Clinical Research in Cardiology, 2020, 109, 1605-1606.	1.5	19
9	Ventilation/Perfusion Relationships and Gas Exchange: Measurement Approaches. , 2020, 10, 1155-1205.		9
10	Peripheral chemoresponsiveness during exercise in male athletes with exerciseâ€induced arterial hypoxaemia. Experimental Physiology, 2020, 105, 1960-1970.	0.9	6
11	Ventilationâ€“perfusion heterogeneity measured by the multiple inert gas elimination technique is minimally affected by intermittent breathing of 100% O ₂. Physiological Reports, 2020, 8, e14488.	0.7	4
12	Sleep Hygiene for Optimizing Recovery in Athletes: Review and Recommendations. International Journal of Sports Medicine, 2019, 40, 535-543.	0.8	108
13	Heavy upright exercise increases ventilation-perfusion mismatch in the basal lung: indirect evidence for interstitial pulmonary edema. Journal of Applied Physiology, 2019, 127, 473-481.	1.2	7
14	Precapillary pulmonary gas exchange is similar for oxygen and inert gases. Journal of Physiology, 2019, 597, 5385-5397.	1.3	1
15	Intraâ€pulmonary arteriovenous anastomoses and pulmonary gas exchange: evaluation by microspheres, contrast echocardiography and inert gas elimination. Journal of Physiology, 2019, 597, 5365-5384.	1.3	12
16	Regional pulmonary perfusion patterns in humans are not significantly altered by inspiratory hypercapnia. Journal of Applied Physiology, 2019, 127, 365-375.	1.2	7
17	Measurement of the distribution of ventilation-perfusion ratios in the human lung with proton MRI: comparison with the multiple inert-gas elimination technique. Journal of Applied Physiology, 2017, 123, 136-146.	1.2	20
18	Ventilation heterogeneity measured by multiple breath inert gas testing is not affected by inspired oxygen concentration in healthy humans. Journal of Applied Physiology, 2017, 122, 1379-1387.	1.2	6

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19	Susceptibility to high-altitude pulmonary edema is associated with a more uniform distribution of regional specific ventilation. Journal of Applied Physiology, 2017, 122, 844-852.	1.2	7
20	Physiology for the pulmonary functional imager. European Journal of Radiology, 2017, 86, 308-312.	1.2	10
21	Fat Oxidation and Aerobic Fitness in Postmenopausal Women. Medicine and Science in Sports and Exercise, 2017, 49, 435.	0.2	0
22	The Multiple Inert Gas Elimination Technique (MIGET). , 2017, , .		17
23	Review of the MIGET Literature. , 2017, , 145-233.		2
24	MIGET: Practical Aspects. , 2017, , 109-143.		0
25	Case Studies in Physiology: The Case of the Giant Giraffe. Journal of Applied Physiology, 2016, 121, 1379-1380.	1.2	1
26	The effect of lung deformation on the spatial distribution of pulmonary blood flow. Journal of Physiology, 2016, 594, 6333-6347.	1.3	5
27	Ibuprofen Blunts Ventilatory Acclimatization to Sustained Hypoxia in Humans. PLoS ONE, 2016, 11, e0146087.	1.1	22
28	A statistical clustering approach to discriminating perfusion from conduit vessel signal contributions in a pulmonary ASL MR image. NMR in Biomedicine, 2015, 28, 1117-1124.	1.6	9
29	Inhaled nitric oxide alters the distribution of blood flow in the healthy human lung, suggesting active hypoxic pulmonary vasoconstriction in normoxia. Journal of Applied Physiology, 2015, 118, 331-343.	1.2	30
30	The effect of supine exercise on the distribution of regional pulmonary blood flow measured using proton MRI. Journal of Applied Physiology, 2014, 116, 451-461.	1.2	9
31	Validating the distribution of specific ventilation in healthy humans measured using proton MR imaging. Journal of Applied Physiology, 2014, 116, 1048-1056.	1.2	44
32	Advances in functional and structural imaging of the human lung using proton MRI. NMR in Biomedicine, 2014, 27, 1542-1556.	1.6	49
33	Lung Function and Gas Exchange. , 2014, , 57-83.		3
34	Pulmonary Gas Exchange and Acidâ€Base Balance During Exercise. , 2013, 3, 693-739.		76
35	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.	1.2	98
36	Luminance contrast of a visual stimulus modulates the BOLD response more than the cerebral blood flow response in the human brain. NeuroImage, 2013, 64, 104-111.	2.1	33

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37	Pulmonary Gas Exchange. Colloquium Series on Integrated Systems Physiology From Molecule To Function, 2013, 5, 1-86.	0.3	1
38	Moderate to high levels of exercise are associated with higher resting energy expenditure in community-dwelling postmenopausal women. Applied Physiology, Nutrition and Metabolism, 2013, 38, 1147-1153.	0.9	4
39	Spatial-temporal dynamics of pulmonary blood flow in the healthy human lung in response to altered FiO2. Journal of Applied Physiology, 2013, 114, 107-118.	1.2	17
40	The heterogeneity of regional specific ventilation is unchanged following heavy exercise in athletes. Journal of Applied Physiology, 2013, 115, 126-135.	1.2	12
41	Imaging lung perfusion. Journal of Applied Physiology, 2012, 113, 328-339.	1.2	86
42	Affine transformation registers small scale lung deformation. , 2012, 2012, 5298-301.		13
43	Rapid intravenous infusion of 20mL/kg saline alters the distribution of perfusion in healthy supine humans. Respiratory Physiology and Neurobiology, 2012, 180, 331-341.	0.7	8
44	Effects of nonâ€steroid antiâ€inflammatory drugs on the human hypoxic ventilatory response and acclimatization. FASEB Journal, 2012, 26, 1150.2.	0.2	0
45	Comments on Point:Counterpoint: High altitude is/is not for the birds!. Journal of Applied Physiology, 2011, 111, 1520-1524.	1.2	1
46	Magnetic Resonance Imaging Quantification of Pulmonary Perfusion using Calibrated Arterial Spin Labeling. Journal of Visualized Experiments, 2011, , .	0.2	14
47	Measuring lung water: Ex vivo validation of multiâ€image gradient echo MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 220-224.	1.9	31
48	Rapid intravenous infusion of 20 ml/kg saline does not impair resting pulmonary gas exchange in the healthy human lung. Journal of Applied Physiology, 2010, 108, 53-59.	1.2	26
49	Lung perfusion measured using magnetic resonance imaging: New tools for physiological insights into the pulmonary circulation. Journal of Magnetic Resonance Imaging, 2010, 32, 1287-1301.	1.9	50
50	Lung volume does not alter the distribution of pulmonary perfusion in dependent lung in supine humans. Journal of Physiology, 2010, 588, 4759-4768.	1.3	22
51	Vertebrate life at high altitude. , 2010, , 265-299.		8
52	Last Word on Point:Counterpoint: Pulmonary edema does occur in human athletes performing heavy sea-level exercise. Journal of Applied Physiology, 2010, 109, 1281-1281.	1.2	5
53	Point: Pulmonary edema does occur in human athletes performing heavy sea-level exercise. Journal of Applied Physiology, 2010, 109, 1270-1272.	1.2	23
54	Stress failure and high-altitude pulmonary oedema: mechanistic insights from physiology. European Respiratory Journal, 2010, 35, 470-472.	3.1	9

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55	Vertical distribution of specific ventilation in normal supine humans measured by oxygen-enhanced proton MRI. Journal of Applied Physiology, 2010, 109, 1950-1959.	1.2	105
56	Last Word on Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. Journal of Applied Physiology, 2009, 107, 1002-1002.	1.2	12
57	Early brain swelling in acute hypoxia. Journal of Applied Physiology, 2009, 107, 244-252.	1.2	50
58	Quantitative MRI measurement of lung density must account for the change in T with lung inflation. Journal of Magnetic Resonance Imaging, 2009, 30, 527-534.	1.9	87
59	Characterizing pulmonary blood flow distribution measured using arterial spin labeling. NMR in Biomedicine, 2009, 22, 1025-1035.	1.6	45
60	Pulmonary perfusion heterogeneity is increased by sustained, heavy exercise in humans. Journal of Applied Physiology, 2009, 107, 1559-1568.	1.2	48
61	Point:Counterpoint: Exercise-induced intrapulmonary shunting is imaginary vs. real. Journal of Applied Physiology, 2009, 107, 993-994.	1.2	48
62	Hypoxic pulmonary vasoconstriction does not contribute to pulmonary blood flow heterogeneity in normoxia in normal supine humans. Journal of Applied Physiology, 2009, 106, 1057-1064.	1.2	52
63	Regional cerebral blood flow during acute hypoxia in individuals susceptible to acute mountain sickness. Respiratory Physiology and Neurobiology, 2008, 160, 267-276.	0.7	30
64	Tidal volume dependency of gas exchange in bronchoconstricted pig lungs. Journal of Applied Physiology, 2007, 103, 148-155.	1.2	6
65	Vertical gradients in regional lung density and perfusion in the supine human lung: the Slinky effect. Journal of Applied Physiology, 2007, 103, 240-248.	1.2	190
66	Effects of age on pulmonary perfusion heterogeneity measured by magnetic resonance imaging. Journal of Applied Physiology, 2007, 102, 2064-2070.	1.2	54
67	The effect of incomplete acetylene washout on cardiac output measurement using open circuit acetylene uptake. Respiratory Physiology and Neurobiology, 2007, 155, 177-183.	0.7	0
68	Pulmonary perfusion in the prone and supine postures in the normal human lung. Journal of Applied Physiology, 2007, 103, 883-894.	1.2	116
69	Advances in magnetic resonance imaging of lung physiology. Journal of Applied Physiology, 2007, 102, 1244-1254.	1.2	66
70	Hypoxia has a greater effect than exercise on the redistribution of pulmonary blood flow in swine. Journal of Applied Physiology, 2007, 103, 2112-2119.	1.2	12
71	Effect of acetazolamide on pulmonary and muscle gas exchange during normoxic and hypoxic exercise. Journal of Physiology, 2007, 579, 909-921.	1.3	48
72	Exercise Induced Arterial Hypoxemia: The role of Ventilation-Perfusion Inequality and Pulmonary Diffusion Limitation. , 2006, 588, 17-30.		49

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73	Heterogeneous pulmonary blood flow in response to hypoxia: A risk factor for high altitude pulmonary edema?. Respiratory Physiology and Neurobiology, 2006, 151, 217-228.	0.7	17
74	Steep head-down tilt has persisting effects on the distribution of pulmonary blood flow. Journal of Applied Physiology, 2006, 101, 583-589.	1.2	28
75	Pulmonary Blood Flow Heterogeneity during Hypoxia and High-Altitude Pulmonary Edema. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 83-87.	2.5	161
76	The Lung at Maximal Exercise: Insights from Comparative Physiology. Clinics in Chest Medicine, 2005, 26, 459-468.	0.8	8
77	Lactate Metabolism at High Altitude: A Reply. High Altitude Medicine and Biology, 2004, 5, 197-198.	0.5	0
78	Does gender affect human pulmonary gas exchange during exercise?. Journal of Physiology, 2004, 557, 529-541.	1.3	86
79	Increased hypoxic ventilatory response during 8 weeks at 3800 m altitude. Respiratory Physiology and Neurobiology, 2004, 142, 145-152.	0.7	32
80	Functional Magnetic Resonance Imaging of the Lung. Journal of Thoracic Imaging, 2004, 19, 228-234.	0.8	8
81	Gender and Pulmonary Gas Exchange During Exercise. Exercise and Sport Sciences Reviews, 2004, 32, 50-56.	1.6	67
82	Comparative Physiology of Lung Complexity: Implications for Gas Exchange. Physiology, 2004, 19, 55-60.	1.6	11
83	Î²â€Adrenergic or parasympathetic inhibition, heart rate and cardiac output during normoxic and acute hypoxic exercise in humans. Journal of Physiology, 2003, 550, 605-616.	1.3	49
84	A Pig Model of High Altitude Pulmonary Edema. High Altitude Medicine and Biology, 2003, 4, 465-474.	0.5	19
85	Persistence of the Lactate Paradox over 8 Weeks at 3800 m. High Altitude Medicine and Biology, 2003, 4, 431-443.	0.5	25
86	Validity of pulse oximetry during maximal exercise in normoxia, hypoxia, and hyperoxia. Journal of Applied Physiology, 2002, 92, 162-168.	1.2	96
87	Role of the autonomic nervous system in the reduced maximal cardiac output at altitude. Journal of Applied Physiology, 2002, 93, 271-279.	1.2	33
88	Human autonomic activity and its response to acute oxygen supplement after high altitude acclimatization. Autonomic Neuroscience: Basic and Clinical, 2002, 102, 54-59.	1.4	17
89	Ventilation-perfusion inequality during normoxic and hypoxic exercise in the emu. Journal of Applied Physiology, 2002, 93, 1980-1986.	1.2	17
90	Time domains of the hypoxic ventilatory response in awake ducks: episodic and continuous hypoxia. Respiration Physiology, 2001, 124, 117-128.	2.8	57

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91	Intermittent vs continuous hypoxia: effects on ventilation and erythropoiesis in humans. Wilderness and Environmental Medicine, 2000, 11, 172-179.	0.4	31
92	Pulmonary gas exchange during exercise in women: effects of exercise type and work increment. Journal of Applied Physiology, 2000, 89, 721-730.	1.2	93
93	Effects of intermittent hypoxia on the isocapnic hypoxic ventilatory response and erythropoiesis in humans. Respiration Physiology, 2000, 123, 39-49.	2.8	75
94	Pulmonary gas exchange during exercise in pigs. Journal of Applied Physiology, 1999, 86, 93-100.	1.2	32
95	Measurement of cardiac output during exercise by open-circuit acetylene uptake. Journal of Applied Physiology, 1999, 87, 1506-1512.	1.2	56
96	Pulmonary gas exchange during exercise in highly trained cyclists with arterial hypoxemia. Journal of Applied Physiology, 1999, 87, 1802-1812.	1.2	75
97	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.	2.5	150
98	Effect of prolonged heavy exercise on pulmonary gas exchange in horses. Journal of Applied Physiology, 1998, 84, 1723-1730.	1.2	52
99	Sustained submaximal exercise does not alter the integrity of the lung blood-gas barrier in elite athletes. Journal of Applied Physiology, 1998, 84, 1185-1189.	1.2	61
100	Effect of prolonged, heavy exercise on pulmonary gas exchange in athletes. Journal of Applied Physiology, 1998, 85, 1523-1532.	1.2	101
101	Effects of Inhaled Nitric Oxide on Gas Exchange in Lungs with Shunt or Poorly Ventilated Areas. American Journal of Respiratory and Critical Care Medicine, 1997, 156, 484-491.	2.5	44
102	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.	2.5	205
103	Pulmonary transit time and diffusion limitation during heavy exercise in athletes. Respiration Physiology, 1996, 103, 67-73.	2.8	73
104	Pulmonary hemodynamic response to exercise in subjects with prior high-altitude pulmonary edema. Journal of Applied Physiology, 1996, 81, 911-921.	1.2	107
105	Exercise-induced VA/Q inequality in subjects with prior high-altitude pulmonary edema. Journal of Applied Physiology, 1996, 81, 922-932.	1.2	74
106	The effect of altering pulmonary blood flow on pulmonary gas exchange in the turtle Trachemys (Pseudemys) scripta. Journal of Experimental Biology, 1996, 199, 2207-14.	0.8	14
107	Pulmonary gas exchange during exercise in athletes. I. Ventilation-perfusion mismatch and diffusion limitation. Journal of Applied Physiology, 1994, 77, 912-917.	1.2	124
108	The Laboratory Assessment of Endurance Performance in Cyclists. Applied Physiology, Nutrition, and Metabolism, 1994, 19, 266-274.	1.7	34

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109	Respiratory Factors Limiting Maximal Aerobic Exercise. Clinical Journal of Sport Medicine, 1993, 3, 174-185.	0.9	2