Christina M Spengler

List of Publications by Year
in descending order

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93	3,318	172386	155592
papers	citations	29 h-index	55 g-index

97	97	97	3034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ERS statement on respiratory muscle testing at rest and during exercise. European Respiratory Journal, 2019, 53, 1801214.	3.1	379
2	Effect of Respiratory Muscle Training on Exercise Performance in Healthy Individuals. Sports Medicine, 2012, 42, 707-724.	3.1	254
3	Effects of Exercise Training on Airway Hyperreactivity in Asthma: A Systematic Review and Meta-Analysis. Sports Medicine, 2013, 43, 1157-1170.	3.1	148
4	Respiratory Muscle Endurance Training in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2000, 162, 1709-1714.	2.5	142
5	An endogenous circadian rhythm of respiratory control in humans. Journal of Physiology, 2000, 526, 683-694.	1.3	139
6	The respiratory system as an exercise limiting factor in normal trained subjects. European Journal of Applied Physiology and Occupational Physiology, 1992, 65, 347-353.	1.2	132
7	Endogenous Circadian Rhythm of Pulmonary Function in Healthy Humans. American Journal of Respiratory and Critical Care Medicine, 2000, 162, 1038-1046.	2.5	129
8	Decreased exercise blood lactate concentrations after respiratory endurance training in humans. European Journal of Applied Physiology, 1999, 79, 299-305.	1.2	112
9	Respiratory muscle training increases cycling endurance without affecting cardiovascular responses to exercise. European Journal of Applied Physiology, 2001, 85, 233-239.	1.2	110
10	Increased fatigue resistance of respiratory muscles during exercise after respiratory muscle endurance training. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 292, R1246-R1253.	0.9	108
11	Effects of Evening Exercise on Sleep in Healthy Participants: A Systematic Review and Meta-Analysis. Sports Medicine, 2019, 49, 269-287.	3.1	108
12	Respiratory muscle endurance training in humans increases cycling endurance without affecting blood gas concentrations. European Journal of Applied Physiology, 2001, 84, 582-586.	1.2	76
13	Spinal opioid receptor-sensitive muscle afferents contribute to the fatigue-induced increase in intracortical inhibition in healthy humans. Experimental Physiology, 2011, 96, 505-517.	0.9	62
14	Sleep Deprivation Per Se Does Not Decrease the Hypercapnic Ventilatory Response in Humans. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1124-1128.	2.5	58
15	Chemoreceptive mechanisms elucidated by studies of congenital central hypoventilation syndrome. Respiration Physiology, 2001, 129, 247-255.	2.8	56
16	Effect of Respiratory Muscle Endurance Training in Patients With COPD Undergoing Pulmonary Rehabilitatio. Chest, 2005, 128, 1216-1224.	0.4	56
17	Skin Temperature Measurement Using Contact Thermometry: A Systematic Review of Setup Variables and Their Effects on Measured Values. Frontiers in Physiology, 2018, 9, 29.	1.3	54
18	Hyperpnea training attenuates peripheral chemosensitivity and improves cycling endurance. Journal of Experimental Biology, 2002, 205, 3937-3943.	0.8	54

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19	Effects of different respiratory muscle training regimes on fatigue-related variables during volitional hyperpnoea. Respiratory Physiology and Neurobiology, 2009, 169, 282-290.	0.7	46
20	Influence of diaphragm and rib cage muscle fatigue on breathing during endurance exercise. Respiratory Physiology and Neurobiology, 2006, 154, 431-442.	0.7	45
21	Expiratory muscle fatigue impairs exercise performance. European Journal of Applied Physiology, 2007, 101, 225-232.	1.2	42
22	Hyperpnea training attenuates peripheral chemosensitivity and improves cycling endurance. Journal of Experimental Biology, 2002, 205, 3937-43.	0.8	42
23	The effect of respiratory muscle endurance training in patients with myasthenia gravis. Neuromuscular Disorders, 2007, 17, 385-391.	0.3	41
24	Effect of respiratory muscle endurance training on respiratory sensations, respiratory control and exercise performance. Respiratory Physiology and Neurobiology, 2008, 161, 16-22.	0.7	41
25	Self-Control and External Control of Mechanical Ventilation Give Equal Air Hunger Relief. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 415-420.	2.5	37
26	Impaired abdominal muscle contractility after high-intensity exhaustive exercise assessed by magnetic stimulation. Muscle and Nerve, 2006, 34, 423-430.	1.0	36
27	Patients with acute spinal cord injury benefit from normocapnic hyperpnoea training. Acta Dermato-Venereologica, 2008, 40, 119-125.	0.6	33
28	Maximal cardiac output during arm exercise in the sitting position after cervical spinal cord injury. Journal of Rehabilitation Medicine, 2012, 44, 131-136.	0.8	33
29	Development of respiratory muscle contractile fatigue in the course of hyperpnoea. Respiratory Physiology and Neurobiology, 2008, 164, 366-372.	0.7	32
30	Physical workload, trapezius muscle activity, and neck pain in nurses' night and day shifts: A physiological evaluation. Applied Ergonomics, 2014, 45, 741-746.	1.7	30
31	Respiratory sensations during heavy exercise in subjects without respiratory chemosensitivity. Respiration Physiology, 1998, 114, 65-74.	2.8	29
32	Noninvasive measurement of respiratory muscle performance after exhaustive endurance exercise. European Respiratory Journal, 1999, 14, 264-269.	3.1	29
33	Effect of inspiratory muscle fatigue on exercise performance taking into account the fatigueâ€induced excess respiratory drive. Experimental Physiology, 2013, 98, 1705-1717.	0.9	29
34	Fatigue Monitoring Through Wearables: A State-of-the-Art Review. Frontiers in Physiology, 2021, 12, 790292.	1.3	29
35	Aspects of Respiratory Muscle Fatigue in a Mountain Ultramarathon Race. Medicine and Science in Sports and Exercise, 2015, 47, 519-527.	0.2	28
36	Task failure from inspiratory resistive loaded breathing: a role for inspiratory muscle fatigue?. European Journal of Applied Physiology, 2003, 90, 405-410.	1.2	27

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37	Modulation of the ventilatory increase at the onset of exercise in humans. Respiration Physiology, 1997, 109, 219-229.	2.8	23
38	Respiratory Muscles, Exercise Performance, and Health in Overweight and Obese Subjects. Medicine and Science in Sports and Exercise, 2011, 43, 714-727.	0.2	23
39	Resting energy expenditure after Roux-en Y gastric bypass surgery. Surgery for Obesity and Related Diseases, 2018, 14, 191-199.	1.0	23
40	Hypoxic-Inflammatory Responses under Acute Hypoxia: In Vitro Experiments and Prospective Observational Expedition Trial. International Journal of Molecular Sciences, 2020, 21, 1034.	1.8	22
41	Altered skeletal muscle (mitochondrial) properties in patients with mitochondrial DNA single deletion myopathy. Orphanet Journal of Rare Diseases, 2016, 11, 105.	1.2	20
42	Wearable Sensors in Ambulatory Individuals With a Spinal Cord Injury: From Energy Expenditure Estimation to Activity Recommendations. Frontiers in Neurology, 2019, 10, 1092.	1.1	20
43	OPTIMAL INTENSITY FOR RESPIRATORY MUSCLE ENDURANCE TRAINING IN PATIENTS WITH SPINAL CORD INJURY. Journal of Rehabilitation Medicine, 2006, 38, 381-386.	0.8	19
44	Locomotor and diaphragm muscle fatigue in endurance athletes performing time-trials of different durations. European Journal of Applied Physiology, 2014, 114, 1619-1633.	1.2	17
45	Breathing pattern and exercise endurance time after exhausting cycling or breathing. European Journal of Applied Physiology, 2000, 81, 368-374.	1.2	16
46	Chest wall volume changes during inspiratory loaded breathing. Respiratory Physiology and Neurobiology, 2011, 175, 130-139.	0.7	15
47	Acute Effects of a Respiratory Sprint-Interval Session on Muscle Contractility. Medicine and Science in Sports and Exercise, 2015, 47, 1979-1987.	0.2	15
48	Estimation of Energy Expenditure in Wheelchair-Bound Spinal Cord Injured Individuals Using Inertial Measurement Units. Frontiers in Neurology, 2018, 9, 478.	1.1	15
49	Effect of Regular Yoga Practice on Respiratory Regulation and Exercise Performance. PLoS ONE, 2016, 11, e0153159.	1.1	13
50	Changes of hemodynamic and cerebral oxygenation after exercise in normobaric and hypobaric hypoxia: associations with acute mountain sickness. Annals of Occupational and Environmental Medicine, 2018, 30, 66.	0.3	13
51	Effect of Respiratory Muscle Training on Exercise Performance in Healthy Individuals. Sports Medicine, 2012, , 1.	3.1	13
52	Contact skin temperature measurements and associated effects of obstructing local sweat evaporation during mild exercise-induced heat stress. Physiological Measurement, 2018, 39, 075003.	1.2	12
53	Circulating adult stem and progenitor cell numbersâ€"can results be trusted?. Stem Cell Research and Therapy, 2019, 10, 305.	2.4	12
54	Enhanced Deep-Inspiration Breath Hold Superior to High-Frequency Percussive Ventilation for Respiratory Motion Mitigation: A Physiology-Driven, MRI-Guided Assessment Toward Optimized Lung Cancer Treatment With Proton Therapy. Frontiers in Oncology, 2021, 11, 621350.	1.3	12

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55	Effects of Sprint-Interval and Endurance Respiratory Muscle Training Regimens. Medicine and Science in Sports and Exercise, 2019, 51, 361-371.	0.2	11
56	Changes in Circulating Stem and Progenitor Cell Numbers Following Acute Exercise in Healthy Human Subjects: a Systematic Review and Meta-analysis. Stem Cell Reviews and Reports, 2021, 17, 1091-1120.	1.7	11
57	Breathless Legs? Consider Training Your Respiration. Physiology, 2000, 15, 101-105.	1.6	10
58	Compartmental chest wall volume changes during volitional normocapnic hyperpnoea. Respiratory Physiology and Neurobiology, 2011, 177, 294-300.	0.7	10
59	Comprehensive assessment of physical functioning in bariatric surgery candidates compared with subjects without obesity. Surgery for Obesity and Related Diseases, 2016, 12, 642-650.	1.0	10
60	Exercise-Induced Circulating Hematopoietic Stem and Progenitor Cells in Well-Trained Subjects. Frontiers in Physiology, 2020, 11, 308.	1.3	10
61	Respiratory Control, Respiratory Sensations and Cycling Endurance After Respiratory Muscle Endurance Training. Advances in Experimental Medicine and Biology, 2008, 605, 239-244.	0.8	9
62	Type 2 Diabetes is Associated with Lower Cardiorespiratory Fitness Independent of Pulmonary Function in Severe Obesity. Experimental and Clinical Endocrinology and Diabetes, 2017, 125, 301-306.	0.6	9
63	Influence of endurance exercise on respiratory muscle performance. Medicine and Science in Sports and Exercise, 2000, 32, 2052-2058.	0.2	8
64	Biometric approximation of diaphragmatic contractility during sustained hyperpnea. Respiratory Physiology and Neurobiology, 2011, 176, 90-97.	0.7	8
65	The role of central command in ventilatory control during static exercise. European Journal of Applied Physiology and Occupational Physiology, 1994, 68, 162-169.	1.2	7
66	Changes in Cerebral Glucose Metabolism after an Expedition to High Altitudes. High Altitude Medicine and Biology, 2006, 7, 28-38.	0.5	7
67	Acute exercise-induced glycocalyx shedding does not differ between exercise modalities, but is associated with total antioxidative capacity. Journal of Science and Medicine in Sport, 2021, 24, 689-695.	0.6	7
68	Compartmental chest wall volume changes during volitional hyperpnoea with constant tidal volume in healthy individuals. Respiratory Physiology and Neurobiology, 2013, 185, 410-415.	0.7	6
69	A Single 60.000 IU Dose of Erythropoietin Does Not Improve Short-Term Aerobic Exercise Performance in Healthy Subjects: A Randomized, Double-Blind, Placebo-Controlled Crossover Trial. Frontiers in Physiology, 2020, 11, 537389.	1.3	6
70	Pre-Exercise Hyperpnea Attenuates Exercise-Induced Bronchoconstriction Without Affecting Performance. PLoS ONE, 2016, 11, e0167318.	1.1	5
71	Validity of contact skin temperature sensors under different environmental conditions with and without fabric coverage: characterisation and correction. International Journal of Biometeorology, 2018, 62, 1861-1872.	1.3	5
72	Explained and Unexplained Variability of CO2-Sensitivity in Humans. Advances in Experimental Medicine and Biology, 2001, 499, 483-488.	0.8	4

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73	Minimally invasive versus open oesophagectomy for oesophageal cancer. Lancet, The, 2012, 380, 885.	6.3	4
74	Cardiorespiratory Responses to Constant and Varied-Load Interval Training Sessions. International Journal of Sports Physiology and Performance, 2021, 16, 1021-1028.	1.1	4
75	No Evidence That Hyperpnea-Based Respiratory Muscle Training Affects Indexes of Cardiovascular Health in Young Healthy Adults. Frontiers in Physiology, 2020, 11, 530218.	1.3	4
76	Reliability of non-invasive cardiac output measurement in individuals with tetraplegia. Spinal Cord, 2011, 49, 665-671.	0.9	3
77	Acute Exercise-Induced Oxidative Stress Does Not Affect Immediate or Delayed Precursor Cell Mobilization in Healthy Young Males. Frontiers in Physiology, 2020, 11, 577540.	1.3	3
78	Myocardial infarction does not affect circulating haematopoietic stem and progenitor cell selfâ€renewal ability in a rat model. Experimental Physiology, 2018, 103, 1-8.	0.9	2
79	Acute Exercise-Induced Circulating Haematopoietic Stem and Progenitor Cells in Cardiac Patients â€" A Case Series. Heart Lung and Circulation, 2019, 28, e54-e58.	0.2	2
80	Similar Airway Function after Volitional Hyperpnea in Mild-Moderate Asthmatics and Healthy Controls. Respiration, 2019, 97, 558-568.	1.2	2
81	Letter to the Editor: Circulating Adult Stem and Progenitor Cells After Roux-en-Y Gastric Bypass Surgery in Myotonic Dystrophy. Obesity Surgery, 2019, 29, 311-315.	1.1	2
82	Multi-Segment Indexes of Arterial Stiffness Show Lower Repeatability Than Carotidâ€"Femoral Pulse Wave Velocity or Systolic Blood Pressure. American Journal of Hypertension, 2019, 32, 245-248.	1.0	2
83	No Decrease in Blood Pressure After an Acute Bout of Intermittent Hyperpnea and Hypoxia in Prehypertensive Elderly. Frontiers in Physiology, 2020, 11, 556220.	1.3	2
84	Acute Exercise in Hypobaric Hypoxia Attenuates Endothelial Shedding in Subjects Unacclimatized to High Altitudes. Frontiers in Physiology, 2020, 10, 1632.	1.3	2
85	A Thermal Skin Model for Comparing Contact Skin Temperature Sensors and Assessing Measurement Errors. Sensors, 2021, 21, 4906.	2.1	2
86	Effect of electrical stimulation of receptive fields in people with lower limb amputation on variables of gait. IBRO Reports, 2020, 9, 78-84.	0.3	1
87	Current limits for flowmeter resistance in metabolic carts can negatively affect exercise performance. Physiological Reports, 2021, 9, e14814.	0.7	1
88	The Effect of Breathing Pattern During Respiratory Training on Cycling Endurance. , 1996, , 315-319.		1
89	Repetitive, intense hyperpnea to reduce bronchial reactivity in asthmatics â€" A pilot study. , 2016, , .		1
90	MiRNA126 â€" RGS16 â€" CXCL12 Cascade as a Potential Mechanism of Acute Exercise-Induced Precursor Cell Mobilization. Frontiers in Physiology, 2021, 12, 780666.	1.3	1

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91	Inspiratory Muscle Fatigue in a Mountain Ultra-Marathon Race. Medicine and Science in Sports and Exercise, 2014, 46, 9.	0.2	0
92	Effects of respiratory warm-up exercises on exercise-induced bronchoconstriction. , 2016, , .		0
93	OUP accepted manuscript. European Journal of Preventive Cardiology, 2022, , .	0.8	0