Michael S Koehle

List of Publications by Year in Descending Order

119 papers	2,178 citations	28 h-index	42 g-index
138 ext. papers	2,612 ext. citations	3.4 avg, IF	5.18 L-index

#	Paper	IF	Citations
119	Comparing the Respiratory Compensation Point With Muscle Oxygen Saturation in Locomotor and Non-locomotor Muscles Using Wearable NIRS Spectroscopy During Whole-Body Exercise.. *Frontiers in Physiology*, **2022**, 13, 818733	4.6	0
118	Influence and Mechanisms of Action of Environmental Stimuli on Work Near and Above the Severe Domain Boundary (Critical Power).. *Sports Medicine - Open*, **2022**, 8, 42	6.1	
117	Air pollution and high-intensity interval exercise: Implications to anti-inflammatory balance, metabolome and cardiovascular responses. *Science of the Total Environment*, **2021**, 809, 151094	10.2	1
116	Association between physical activity level and cardiovascular risk factors in adolescents living with type 1 diabetes mellitus: a cross-sectional study. *Cardiovascular Diabetology*, **2021**, 20, 62	8.7	4
115	Reliability of diaphragm voluntary activation measurements in healthy adults. *Applied Physiology, Nutrition and Metabolism*, **2021**, 46, 247-256	3	1
114	The Efficacy of Heat Acclimatization Pre-World Cup in Female Soccer Players. *Frontiers in Sports and Active Living*, **2021**, 3, 614370	2.3	0
113	When physical activity meets the physical environment: precision health insights from the intersection. *Environmental Health and Preventive Medicine*, **2021**, 26, 68	4.2	3
112	Physical performance development in a female national team soccer program. *Journal of Science and Medicine in Sport*, **2021**, 24, 597-602	4.4	0
111	Elevated peak systolic blood pressure in endurance-trained athletes: Physiology or pathology?. *Scandinavian Journal of Medicine and Science in Sports*, **2021**, 31, 956-966	4.6	2
110	Ventilatory responses to constant load exercise following the inhalation of a short-acting agonist in a laboratory-controlled diesel exhaust exposure study in individuals with exercise-induced bronchoconstriction. *Environment International*, **2021**, 146, 106182	12.9	2
109	Reply to Beltrami. *Experimental Physiology*, **2021**, 106, 791-792	2.4	
108	The Acute Effects of Exercising in Air Pollution: A Systematic Review of Randomized Controlled Trials. *Sports Medicine*, **2021**, 1	10.6	2
107	The effect of diaphragm fatigue on the multidimensional components of dyspnoea and diaphragm electromyography during exercise in healthy males. *Journal of Physiology*, **2020**, 598, 3223-3237	3.9	6
106	Vascular effects of physical activity are not modified by short-term inhaled diesel exhaust: Results of a controlled human exposure study. *Environmental Research*, **2020**, 183, 109270	7.9	5
105	Using Variance to Explore the Diagnostic Utility of Baseline Concussion Testing. *Journal of Neurotrauma*, **2020**, 37, 1521-1527	5.4	4
104	Diagnosis of Exercise-induced Bronchoconstriction in Swimmers: Context Matters. *Medicine and Science in Sports and Exercise*, **2020**, 52, 1855-1861	1.2	1
103	Competing In A Big City: Effects Of Air Pollution On Performance And Physiological Parameters During A 50-km Cycling Time-trial. *Medicine and Science in Sports and Exercise*, **2020**, 52, 1046-1046	1.2	

102	Airway Dysfunction in Elite Athletes **2020**, 147-157		
101	Estimation of minute ventilation by heart rate for field exercise studies. *Scientific Reports*, **2020**, 10, 1423	4.9	5
100	Consecutive non-training days over a weekend for assessing cardiac parasympathetic variation in response to accumulated exercise stress. *European Journal of Sport Science*, **2020**, 20, 1072-1082	3.9	1
99	Near-infrared spectroscopy measures of sternocleidomastoid blood flow during exercise and hyperpnoea. *Experimental Physiology*, **2020**, 105, 2226-2237	2.4	2
98	Cardiopulmonary Demand of 16-kg Kettlebell Snatches in Simulated Girevoy Sport. *Journal of Strength and Conditioning Research*, **2020**, 34, 1625-1633	3.2	6
97	Sildenafil does not improve performance in 16.1 km cycle exercise time-trial in acute hypoxia. *PLoS ONE*, **2019**, 14, e0210841	3.7	5
96	Sildenafil does not reliably improve exercise performance in hypoxia: a systematic review. *BMJ Open Sport and Exercise Medicine*, **2019**, 5, e000526	3.4	2
95	Effects of low-intensity and high-intensity cycling with diesel exhaust exposure on soluble P-selectin, E-selectin, I-CAM-1, VCAM-1 and complete blood count. *BMJ Open Sport and Exercise Medicine*, **2019**, 5, e000625	3.4	6
94	Perfusion of Intrapulmonary Arteriovenous Anastomoses Is Not Related to VO in Hypoxia and Is Unchanged by Oral Sildenafil. *High Altitude Medicine and Biology*, **2019**, 20, 399-406	1.9	
93	The Impact of Cycling Cadence on Respiratory and Hemodynamic Responses to Exercise. *Medicine and Science in Sports and Exercise*, **2019**, 51, 1727-1735	1.2	6
92	Optimizing recovery to support multi-evening cycling competition performance. *European Journal of Sport Science*, **2019**, 19, 811-823	3.9	3
91	Monitoring the Prescribed and Experienced Heart Rate-Derived Training Loads in Elite Field Hockey Players. *Journal of Strength and Conditioning Research*, **2019**, 33, 1394-1399	3.2	6
90	The 2018 Lake Louise Acute Mountain Sickness Score. *High Altitude Medicine and Biology*, **2018**, 19, 4-6	1.9	171
89	The Critical Power Model as a Potential Tool for Anti-doping. *Frontiers in Physiology*, **2018**, 9, 643	4.6	7
88	Acute diesel exhaust exposure and postural stability: a controlled crossover experiment. *Journal of Occupational Medicine and Toxicology*, **2018**, 13, 2	2.7	6
87	The effect of low and high-intensity cycling in diesel exhaust on flow-mediated dilation, circulating NOx, endothelin-1 and blood pressure. *PLoS ONE*, **2018**, 13, e0192419	3.7	27
86	Inconsistent calculation methodology for the eucapnic voluntary hyperpnoea test affects the diagnosis of exercise-induced bronchoconstriction. *BMJ Open Respiratory Research*, **2018**, 5, e000358	5.6	2
85	Particulate matter exposure and health impacts of urban cyclists: a randomized crossover study. *Environmental Health*, **2018**, 17, 78	6	18

84	The pulmonary and autonomic effects of high-intensity and low-intensity exercise in diesel exhaust. *Environmental Health*, **2018**, 17, 87	6	26
83	Efficacy of Hot Yoga as a Heat Stress Technique for Enhancing Plasma Volume and Cardiovascular Performance in Elite Female Field Hockey Players. *Journal of Strength and Conditioning Research*, **2018**, 32, 2878-2887	3.2	3
82	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	3.9	30
81	Effects of macro- and micronutrients on exercise-induced hepcidin response in highly trained endurance athletes. *Applied Physiology, Nutrition and Metabolism*, **2017**, 42, 1036-1043	3	14
80	THE PATHOPHYSIOLOGY OF CAROTID SINUS HYPERSENSITIVITY: SENSORY BLOCK OF THE STERNOCLEIDOMASTOID MUSCLES DOES NOT INCREASE RESPONSES TO CAROTID SINUS MASSAGE. *Canadian Journal of Cardiology*, **2017**, 33, S152-S153	3.8	
79	Carotid sinus hypersensitivity: block of the sternocleidomastoid muscle does not affect responses to carotid sinus massage in healthy young adults. *Physiological Reports*, **2017**, 5, e13448	2.6	2
78	Effects of respiratory muscle work on respiratory and locomotor blood flow during exercise. *Experimental Physiology*, **2017**, 102, 1535-1547	2.4	71
77	Clarifying the role of physical activity in osteoarthritis and rheumatoid arthritis. *Journal of Physiology*, **2017**, 595, 5713	3.9	2
76	Factor Structure and Internal Validity of the Functional Movement Screen in Adults. *Journal of Strength and Conditioning Research*, **2016**, 30, 540-6	3.2	15
75	Pharmacogenetic Effects of Inhaled Salbutamol on 10-km Time Trial Performance in Competitive Male and Female Cyclists. *Clinical Journal of Sport Medicine*, **2016**, 26, 145-51	3.2	3
74	Are we adequately preparing the next generation of physicians to prescribe exercise as prevention and treatment? Residents express the desire for more training in exercise prescription. *Canadian Medical Education Journal*, **2016**, 7, e79-e96	1	8
73	Are we adequately preparing the next generation of physicians to prescribe exercise as prevention and treatment? Residents express the desire for more training in exercise prescription. *Canadian Medical Education Journal*, **2016**, 7, e79-96	1	13
72	The effect of consistent practice of yogic breathing exercises on the human cardiorespiratory system. *Respiratory Physiology and Neurobiology*, **2016**, 233, 41-51	2.8	4
71	Evidence for and Against Genetic Predispositions to Acute and Chronic Altitude Illnesses. *High Altitude Medicine and Biology*, **2016**, 17, 281-293	1.9	17
70	Is previous history a reliable predictor for acute mountain sickness susceptibility? A meta-analysis of diagnostic accuracy. *British Journal of Sports Medicine*, **2015**, 49, 69-75	10.3	7
69	Assessing cognitive impairment using PROMIS( ) applied cognition-abilities scales in a medical outpatient sample. *Psychiatry Research*, **2015**, 226, 169-72	9.9	31
68	Inhaled salbutamol does not affect athletic performance in asthmatic and non-asthmatic cyclists. *British Journal of Sports Medicine*, **2015**, 49, 51-5	10.3	19
67	Effects of inhaled bronchodilators on lung function and cycling performance in female athletes with and without exercise-induced bronchoconstriction. *Journal of Science and Medicine in Sport*, **2015**, 18, 607-12	4.4	15

66	Plausible ergogenic effects of vitamin D on athletic performance and recovery. *Journal of the International Society of Sports Nutrition*, **2015**, 12, 33	4.5	79
65	Greater autonomic modulation during post-exercise hypotension following high-intensity interval exercise in endurance-trained men and women. *European Journal of Applied Physiology*, **2015**, 115, 81-9	3.4	13
64	A Meta-Analysis of Exhaled Nitric Oxide in Acute Normobaric Hypoxia. *Aerospace Medicine and Human Performance*, **2015**, 86, 693-7	1.1	1
63	Acute Beetroot Juice Supplementation Does Not Improve Cycling Performance in Normoxia or Moderate Hypoxia. *International Journal of Sport Nutrition and Exercise Metabolism*, **2015**, 25, 359-66	4.4	42
62	Sex differences in cardiac function after prolonged strenuous exercise. *Clinical Journal of Sport Medicine*, **2015**, 25, 276-83	3.2	12
61	High-Dose Inhaled Salbutamol Does Not Improve 10-km Cycling Time Trial Performance. *Medicine and Science in Sports and Exercise*, **2015**, 47, 2373-9	1.2	14
60	A Preliminary Genome-Wide Association Study of Acute Mountain Sickness Susceptibility in a Group of Nepalese Pilgrims Ascending to 4380 m. *High Altitude Medicine and Biology*, **2015**, 16, 290-7	1.9	4
59	Heliox breathing equally influences respiratory mechanics and cycling performance in trained males and females. *Journal of Applied Physiology*, **2015**, 118, 255-64	3.7	11
58	The health effects of exercising in air pollution. *Sports Medicine*, **2014**, 44, 223-49	10.6	126
57	Acute mountain sickness, chemosensitivity, and cardiorespiratory responses in humans exposed to hypobaric and normobaric hypoxia. *Journal of Applied Physiology*, **2014**, 116, 945-52	3.7	33
56	Acute mountain sickness is not repeatable across two 12-hour normobaric hypoxia exposures. *Wilderness and Environmental Medicine*, **2014**, 25, 143-51	1.4	5
55	Individual susceptibility to high altitude and immersion pulmonary edema and pulmonary lymphatics. *Aviation, Space, and Environmental Medicine*, **2014**, 85, 9-14		12
54	Reply to Debevec and Millet. *Journal of Applied Physiology*, **2014**, 116, 1256	3.7	
53	Experimental performance evaluation of human balance control models. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2014**, 22, 1115-27	4.8	7
52	Exercise-induced arterial hypoxemia is unaffected by intense physical training: a case report. *Applied Physiology, Nutrition and Metabolism*, **2014**, 39, 266-9	3	4
51	Pulmonary mechanics and gas exchange during exercise in Kenyan distance runners. *Medicine and Science in Sports and Exercise*, **2014**, 46, 702-10	1.2	13
50	Physiological responses to diesel exhaust exposure are modified by cycling intensity. *Medicine and Science in Sports and Exercise*, **2014**, 46, 1999-2006	1.2	30
49	Canadian Academy of Sport and Exercise Medicine position statement: athletes at high altitude. *Clinical Journal of Sport Medicine*, **2014**, 24, 120-7	3.2	14

48	The endothelial responses to low- and high-intensity cycling with diesel exhaust exposure (1106.21). *FASEB Journal*, **2014**, 28, 1106.21	0.9	
47	Is poor sleep quality at high altitude separate from acute mountain sickness? Factor structure and internal consistency of the Lake Louise Score Questionnaire. *High Altitude Medicine and Biology*, **2013**, 14, 334-7	1.9	32
46	Left ventricular mechanics and arterial-ventricular coupling following high-intensity interval exercise. *Journal of Applied Physiology*, **2013**, 115, 1705-13	3.7	27
45	Normative data for the modified balance error scoring system in adults. *Brain Injury*, **2013**, 27, 596-9	2.1	45
44	Normative data for the balance error scoring system in adults. *Rehabilitation Research and Practice*, **2013**, 2013, 846418	1.2	32
43	Exercise-induced arterial hypoxaemia and the mechanics of breathing in healthy young women. *Journal of Physiology*, **2013**, 591, 3017-34	3.9	55
42	Normative data for the functional movement screen in middle-aged adults. *Journal of Strength and Conditioning Research*, **2013**, 27, 458-62	3.2	56
41	A prospective epidemiological study of acute mountain sickness in Nepalese pilgrims ascending to high altitude (4380 m). *PLoS ONE*, **2013**, 8, e75644	3.7	27
40	Influence of sex and training status on cardiac and baroreceptor function following combined high-intensity interval exercise and orthostatic stress. *FASEB Journal*, **2013**, 27, 711.1	0.9	
39	Exhaled nitric oxide is associated with acute mountain sickness susceptibility during exposure to normobaric hypoxia. *Respiratory Physiology and Neurobiology*, **2012**, 180, 40-4	2.8	12
38	Exercise-induced intrapulmonary arteriovenous shunt in healthy women. *Respiratory Physiology and Neurobiology*, **2012**, 181, 8-13	2.8	18
37	Repeated exercise-induced arterial hypoxemia in a healthy untrained woman. *Respiratory Physiology and Neurobiology*, **2012**, 183, 201-5	2.8	7
36	Comments on Point:Counterpoint: Hypobaric hypoxia induces/does not induce different responses from normobaric hypoxia. *Journal of Applied Physiology*, **2012**, 112, 1788-94	3.7	29
35	Evaluation of the Balance Error Scoring System (BESS) in the diagnosis of acute mountain sickness at 4380 m. *High Altitude Medicine and Biology*, **2012**, 13, 93-7	1.9	5
34	The effect of pre-exercise diesel exhaust exposure on cycling performance and cardio-respiratory variables. *Inhalation Toxicology*, **2012**, 24, 783-9	2.7	32
33	Differences in cardio-ventilatory responses to hypobaric and normobaric hypoxia: a review. *Aviation, Space, and Environmental Medicine*, **2012**, 83, 677-84		41
32	Immersion pulmonary edema in female triathletes. *Pulmonary Medicine*, **2011**, 2011, 261404	5.3	16
31	The genetics of altitude tolerance: the evidence for inherited susceptibility to acute mountain sickness. *Journal of Occupational and Environmental Medicine*, **2011**, 53, 159-68	2	18

30	No association between alleles of the bradykinin receptor-B2 gene and acute mountain sickness. *Experimental Biology and Medicine*, **2010**, 235, 737-40	3.7	9
29	A variant of the endothelial nitric oxide synthase gene (NOS3) associated with AMS susceptibility is less common in the Quechua, a high altitude Native population. *High Altitude Medicine and Biology*, **2010**, 11, 27-30	1.9	25
28	Oximetry, heart rate variability, and the diagnosis of mild-to-moderate acute mountain sickness. *European Journal of Emergency Medicine*, **2010**, 17, 119-22	2.3	46
27	Evidence for a genetic basis for altitude illness: 2010 update. *High Altitude Medicine and Biology*, **2010**, 11, 349-68	1.9	64
26	The effects of lower body positive and negative pressure on the hypoxic ventilatory decline. *Respiratory Physiology and Neurobiology*, **2010**, 172, 37-41	2.8	2
25	Genotype at the missense G894T polymorphism (Glu298Asp) in the NOS3 gene is associated with susceptibility to acute mountain sickness. *High Altitude Medicine and Biology*, **2009**, 10, 261-7	1.9	17
24	Performance of a compact end-tidal forcing system. *Respiratory Physiology and Neurobiology*, **2009**, 167, 155-61	2.8	14
23	The effect of two different intermittent hypoxia protocols on ventilatory responses to hypoxia and carbon dioxide at rest. *Advances in Experimental Medicine and Biology*, **2008**, 605, 218-23	3.6	4
22	Post-exercise hypotension and cardiovascular responses to moderate orthostatic stress in endurance-trained males. *Applied Physiology, Nutrition and Metabolism*, **2008**, 33, 246-53	3	16
21	Normative data for the balance error scoring system: implications for brain injury evaluations. *Brain Injury*, **2008**, 22, 147-52	2.1	49
20	Hyperthermia significantly increases ventilatory response to isocapnic hypoxia in humans. *FASEB Journal*, **2008**, 22, 130-130	0.9	
19	Two patterns of daily hypoxic exposure and their effects on measures of chemosensitivity in humans. *Journal of Applied Physiology*, **2007**, 103, 1973-8	3.7	25
18	Sex differences in left ventricular function and beta-receptor responsiveness following prolonged strenuous exercise. *Journal of Applied Physiology*, **2007**, 102, 681-7	3.7	38
17	Common haplotypes in the beta-2 adrenergic receptor gene are not associated with acute mountain sickness susceptibility in Nepalese. *High Altitude Medicine and Biology*, **2007**, 8, 206-12	1.9	11
16	No association between variants in the ACE and angiotensin II receptor 1 genes and acute mountain sickness in Nepalese pilgrims to the Janai Purnima Festival at 4380 m. *High Altitude Medicine and Biology*, **2006**, 7, 281-9	1.9	29
15	Evidence for a genetic basis for altitude-related illness. *High Altitude Medicine and Biology*, **2006**, 7, 150-67	1.9	51
14	Human ventilatory responsiveness to hypoxia is unrelated to maximal aerobic capacity. *Journal of Applied Physiology*, **2006**, 100, 1204-9	3.7	9
13	Patellofemoral pain syndrome in Tibetan Buddhist monks. *Wilderness and Environmental Medicine*, **2006**, 17, 129-31	1.4	

12	Repeated measurement of hypoxic ventilatory response as an intermittent hypoxic stimulus. *Respiratory Physiology and Neurobiology*, **2005**, 145, 33-9	2.8	14
11	Pulmonary oedema of immersion. *Sports Medicine*, **2005**, 35, 183-90	10.6	57
10	Tarsal navicular stress injury: long-term outcome and clinicoradiological correlation using both computed tomography and magnetic resonance imaging. *American Journal of Sports Medicine*, **2005**, 33, 1875-81	6.8	61
9	Effects of inhaled bronchodilators and corticosteroids on exercise induced arterial hypoxaemia in trained male athletes. *British Journal of Sports Medicine*, **2005**, 39, 917-20	10.3	4
8	Acute hypoxic ventilatory response and exercise-induced arterial hypoxemia in men and women. *Respiratory Physiology and Neurobiology*, **2004**, 143, 37-48	2.8	38
7	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. *Medicine and Science in Sports and Exercise*, **2004**, 36, S265	1.2	
6	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. *Medicine and Science in Sports and Exercise*, **2004**, 36, S265	1.2	
5	Asthma and recreational SCUBA diving: a systematic review. *Sports Medicine*, **2003**, 33, 109-16	10.6	13
4	Alpine ski injuries and their prevention. *Sports Medicine*, **2002**, 32, 785-93	10.6	79
3	The relationship of ischemia-reperfusion injury of transplanted lung and the up-regulation of major histocompatibility complex II on host peripheral lymphocytes. *Journal of Thoracic and Cardiovascular Surgery*, **1998**, 115, 978-89	1.5	34
2	The effect of exercise duration on the fast component of exercise hyperpnoea at work rates below the first ventilatory threshold. *European Journal of Applied Physiology and Occupational Physiology*, **1996**, 74, 548-52		6
1	The effect of exercise duration on the fast component of exercise hyperpnoea at work rates below the first ventilatory threshold. *European Journal of Applied Physiology*, **1996**, 74, 548-552	3.4	1