Michael S Koehle

List of Publications by Year
in descending order

135 papers	2,993 citations	147566 31 h-index	197535 49 g-index
138 all docs	138 docs citations	138 times ranked	3294 citing authors

#	Article	IF	Citations
1	The 2018 Lake Louise Acute Mountain Sickness Score. High Altitude Medicine and Biology, 2018, 19, 4-6.	0.5	324
2	The Health Effects of Exercising in Air Pollution. Sports Medicine, 2014, 44, 223-249.	3.1	164
3	Alpine Ski Injuries and Their Prevention. Sports Medicine, 2002, 32, 785-793.	3.1	108
4	Plausible ergogenic effects of vitamin D on athletic performance and recovery. Journal of the International Society of Sports Nutrition, 2015, 12, 33.	1.7	106
5	Effects of respiratory muscle work on respiratory and locomotor blood flow during exercise. Experimental Physiology, 2017, 102, 1535-1547.	0.9	95
6	Normative Data for the Functional Movement Screen in Middle-Aged Adults. Journal of Strength and Conditioning Research, 2013, 27, 458-462.	1.0	80
7	Exerciseâ€induced arterial hypoxaemia and the mechanics of breathing in healthy young women. Journal of Physiology, 2013, 591, 3017-3034.	1.3	78
8	Tarsal Navicular Stress Injury. American Journal of Sports Medicine, 2005, 33, 1875-1881.	1.9	74
9	Pulmonary Oedema of Immersion. Sports Medicine, 2005, 35, 183-190.	3.1	73
10	Evidence for a Genetic Basis for Altitude Illness: 2010 Update. High Altitude Medicine and Biology, 2010, 11, 349-368.	0.5	67
11	Normative data for the balance error scoring system: Implications for brain injury evaluations. Brain Injury, 2008, 22, 147-152.	0.6	59
12	Evidence for a Genetic Basis for Altitude-Related Illness. High Altitude Medicine and Biology, 2006, 7, 150-167.	0.5	56
13	Oximetry, heart rate variability, and the diagnosis of mild-to-moderate acute mountain sickness. European Journal of Emergency Medicine, 2010, 17, 119-122.	0.5	52
14	Normative data for the modified balance error scoring system in adults. Brain Injury, 2013, 27, 596-599.	0.6	51
15	Differences in Cardio-Ventilatory Responses to Hypobaric and Normobaric Hypoxia: A Review. Aviation, Space, and Environmental Medicine, 2012, 83, 677-684.	0.6	50
16	The effect of pre-exercise diesel exhaust exposure on cycling performance and cardio-respiratory variables. Inhalation Toxicology, 2012, 24, 783-789.	0.8	48
17	Acute Beetroot Juice Supplementation Does Not Improve Cycling Performance in Normoxia or Moderate Hypoxia. International Journal of Sport Nutrition and Exercise Metabolism, 2015, 25, 359-366.	1.0	47
18	Assessing cognitive impairment using PROMISÂ® applied cognition-abilities scales in a medical outpatient sample. Psychiatry Research, 2015, 226, 169-172.	1.7	46

#	Article	IF	Citations
19	Physiological Responses to Diesel Exhaust Exposure Are Modified by Cycling Intensity. Medicine and Science in Sports and Exercise, 2014, 46, 1999-2006.	0.2	45
20	Exerciseâ€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
21	Acute hypoxic ventilatory response and exercise-induced arterial hypoxemia in men and women. Respiratory Physiology and Neurobiology, 2004, 143, 37-48.	0.7	42
22	Normative Data for the Balance Error Scoring System in Adults. Rehabilitation Research and Practice, 2013, 2013, 1-5.	0.5	42
23	The pulmonary and autonomic effects of high-intensity and low-intensity exercise in diesel exhaust. Environmental Health, 2018, 17, 87.	1.7	40
24	Sex differences in left ventricular function and Î²-receptor responsiveness following prolonged strenuous exercise. Journal of Applied Physiology, 2007, 102, 681-687.	1.2	39
25	The relationship of ischemia-reperfusion injury of transplanted lung and the up-regulation of major histocompatibility complex II on host peripheral. Journal of Thoracic and Cardiovascular Surgery, 1998, 115, 978-989.	0.4	38
26	A Prospective Epidemiological Study of Acute Mountain Sickness in Nepalese Pilgrims Ascending to High Altitude (4380 m). PLoS ONE, 2013, 8, e75644.	1.1	38
27	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, 334-337.	0.5	37
28	Acute mountain sickness, chemosensitivity, and cardiorespiratory responses in humans exposed to hypobaric and normobaric hypoxia. Journal of Applied Physiology, 2014, 116, 945-952.	1.2	36
29	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.	1.1	35
30	Comments on Point:Counterpoint: Hypobaric hypoxia induces/does not induce different responses from normobaric hypoxia. Journal of Applied Physiology, 2012, 112, 1788-1794.	1.2	34
31	Left ventricular mechanics and arterial-ventricular coupling following high-intensity interval exercise. Journal of Applied Physiology, 2013, 115, 1705-1713.	1.2	33
32	Particulate matter exposure and health impacts of urban cyclists: a randomized crossover study. Environmental Health, 2018, 17, 78.	1.7	33
33	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, 281-289.	0.5	29
34	Association between physical activity level and cardiovascular risk factors in adolescents living with type 1 diabetesÂmellitus: a cross-sectional study. Cardiovascular Diabetology, 2021, 20, 62.	2.7	29
35	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.	0.5	28
36	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.	0.3	27

#	Article	IF	Citations
37	Two patterns of daily hypoxic exposure and their effects on measures of chemosensitivity in humans. Journal of Applied Physiology, 2007, 103, 1973-1978.	1.2	26
38	The Genetics of Altitude Tolerance. Journal of Occupational and Environmental Medicine, 2011, 53, 159-168.	0.9	25
39	Inhaled salbutamol does not affect athletic performance in asthmatic and non-asthmatic cyclists. British Journal of Sports Medicine, 2015, 49, 51-55.	3.1	25
40	Evidence for and Against Genetic Predispositions to Acute and Chronic Altitude Illnesses. High Altitude Medicine and Biology, 2016, 17, 281-293.	0.5	25
41	Factor Structure and Internal Validity of the Functional Movement Screen in Adults. Journal of Strength and Conditioning Research, 2016, 30, 540-546.	1.0	23
42	Immersion Pulmonary Edema in Female Triathletes. Pulmonary Medicine, 2011, 2011, 1-4.	0.5	21
43	Sex Differences in Cardiac Function After Prolonged Strenuous Exercise. Clinical Journal of Sport Medicine, 2015, 25, 276-283.	0.9	21
44	Genotype at the Missense G894T Polymorphism (Glu298Asp) in theNOS3Gene Is Associated with Susceptibility to Acute Mountain Sickness. High Altitude Medicine and Biology, 2009, 10, 261-267.	0.5	19
45	Exercise-induced intrapulmonary arteriovenous shunt in healthy women. Respiratory Physiology and Neurobiology, 2012, 181, 8-13.	0.7	19
46	Canadian Academy of Sport and Exercise Medicine Position Statement. Clinical Journal of Sport Medicine, 2014, 24, 120-127.	0.9	19
47	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, 607-612.	0.6	19
48	Effects of macro- and micronutrients on exercise-induced hepcidin response in highly trained endurance athletes. Applied Physiology, Nutrition and Metabolism, 2017, 42, 1036-1043.	0.9	19
49	Asthma and Recreational SCUBA Diving. Sports Medicine, 2003, 33, 109-116.	3.1	18
50	Post-exercise hypotension and cardiovascular responses to moderate orthostatic stress in endurance-trained males. Applied Physiology, Nutrition and Metabolism, 2008, 33, 246-253.	0.9	18
51	Repeated measurement of hypoxic ventilatory response as an intermittent hypoxic stimulus. Respiratory Physiology and Neurobiology, 2005, 145, 33-39.	0.7	17
52	High-Dose Inhaled Salbutamol Does Not Improve 10-km Cycling Time Trial Performance. Medicine and Science in Sports and Exercise, 2015, 47, 2373-2379.	0.2	17
53	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, 81-89.	1.2	17
54	Individual Susceptibility to High Altitude and Immersion Pulmonary Edema and Pulmonary Lymphatics. Aviation, Space, and Environmental Medicine, 2014, 85, 9-14.	0.6	16

#	Article	IF	Citations
55	Heliox breathing equally influences respiratory mechanics and cycling performance in trained males and females. Journal of Applied Physiology, 2015, 118, 255-264.	1.2	16
56	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.	1.3	15
57	Performance of a compact end-tidal forcing system. Respiratory Physiology and Neurobiology, 2009, 167, 155-161.	0.7	14
58	Exhaled nitric oxide is associated with acute mountain sickness susceptibility during exposure to normobaric hypoxia. Respiratory Physiology and Neurobiology, 2012, 180, 40-44.	0.7	14
59	Pulmonary Mechanics and Gas Exchange during Exercise in Kenyan Distance Runners. Medicine and Science in Sports and Exercise, 2014, 46, 702-710.	0.2	13
60	Common Haplotypes in the Î²-2 Adrenergic Receptor Gene Are Not Associated with Acute Mountain Sickness Susceptibility in Nepalese. High Altitude Medicine and Biology, 2007, 8, 206-212.	0.5	12
61	The Critical Power Model as a Potential Tool for Anti-doping. Frontiers in Physiology, 2018, 9, 643.	1.3	12
62	Acute diesel exhaust exposure and postural stability: a controlled crossover experiment. Journal of Occupational Medicine and Toxicology, 2018, 13, 2.	0.9	12
63	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.	1.3	12
64	Human ventilatory responsiveness to hypoxia is unrelated to maximal aerobic capacity. Journal of Applied Physiology, 2006, 100, 1204-1209.	1.2	10
65	No association between alleles of the bradykinin receptor-B2 gene and acute mountain sickness. Experimental Biology and Medicine, 2010, 235, 737-740.	1.1	10
66	Monitoring the Prescribed and Experienced Heart Rateâ€“Derived Training Loads in Elite Field Hockey Players. Journal of Strength and Conditioning Research, 2019, 33, 1394-1399.	1.0	10
67	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.	3.7	10
68	When physical activity meets the physical environment: precision health insights from the intersection. Environmental Health and Preventive Medicine, 2021, 26, 68.	1.4	10
69	Estimation of minute ventilation by heart rate for field exercise studies. Scientific Reports, 2020, 10, 1423.	1.6	10
70	Repeated exercise-induced arterial hypoxemia in a healthy untrained woman. Respiratory Physiology and Neurobiology, 2012, 183, 201-205.	0.7	9
71	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.	1.4	9
72	The Impact of Cycling Cadence on Respiratory and Hemodynamic Responses to Exercise. Medicine and Science in Sports and Exercise, 2019, 51, 1727-1735.	0.2	9

#	Article	IF	Citations
73	COVID-19 Pandemic and Exercise (COPE) trial: a multigroup pragmatic randomised controlled trial examining effects of app-based at-home exercise programs on depressive symptoms. British Journal of Sports Medicine, 2022, 56, 546-552.	3.1	9
74	Air pollution and high-intensity interval exercise: Implications to anti-inflammatory balance, metabolome and cardiovascular responses. Science of the Total Environment, 2022, 809, 151094.	3.9	9
75	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.	0.3	9
76	Experimental Performance Evaluation of Human Balance Control Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1115-1127.	2.7	8
77	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.	3.1	8
78	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, 548-552.	1.2	6
79	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, 218-223.	0.8	6
80	The effects of lower body positive and negative pressure on the hypoxic ventilatory decline. Respiratory Physiology and Neurobiology, 2010, 172, 37-41.	0.7	6
81	A Preliminary Genome-Wide Association Study of Acute Mountain Sickness Susceptibility in a Group of Nepalese Pilgrims Ascending to 4380â€‰m. High Altitude Medicine and Biology, 2015, 16, 290-297.	0.5	6
82	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
83	Sildenafil does not improve performance in 16.1 km cycle exercise time-trial in acute hypoxia. PLoS ONE, 2019, 14, e0210841.	1.1	6
84	Optimizing recovery to support multiâ€evening cycling competition performance. European Journal of Sport Science, 2019, 19, 811-823.	1.4	6
85	Cardiopulmonary Demand of 16-kg Kettlebell Snatches in Simulated Girevoy Sport. Journal of Strength and Conditioning Research, 2020, 34, 1625-1633.	1.0	6
86	Nearâ€infrared spectroscopy measures of sternocleidomastoid blood flow during exercise and hyperpnoea. Experimental Physiology, 2020, 105, 2226-2237.	0.9	6
87	The Acute Effects of Exercising in Air Pollution: A Systematic Review of Randomized Controlled Trials. Sports Medicine, 2022, 52, 139-164.	3.1	6
88	Sex Differences in Diaphragm Voluntary Activation after Exercise. Medicine and Science in Sports and Exercise, 2022, 54, 1167-1175.	0.2	6
89	Evaluation of the Balance Error Scoring System (BESS) in the Diagnosis of Acute Mountain Sickness at 4380â€‰m. High Altitude Medicine and Biology, 2012, 13, 93-97.	0.5	5
90	Exercise-induced arterial hypoxemia is unaffected by intense physical training: a case report. Applied Physiology, Nutrition and Metabolism, 2014, 39, 266-269.	0.9	5

#	Article	IF	Citations
91	Acute Mountain Sickness Is Not Repeatable Across Two 12-Hour Normobaric Hypoxia Exposures. Wilderness and Environmental Medicine, 2014, 25, 143-151.	0.4	5
92	Pharmacogenetic Effects of Inhaled Salbutamol on 10-km Time Trial Performance in Competitive Male and Female Cyclists. Clinical Journal of Sport Medicine, 2016, 26, 145-151.	0.9	5
93	Sildenafil does not reliably improve exercise performance in hypoxia: a systematic review. BMJ Open Sport and Exercise Medicine, 2019, 5, e000526.	1.4	5
94	Using Variance to Explore the Diagnostic Utility of Baseline Concussion Testing. Journal of Neurotrauma, 2020, 37, 1521-1527.	1.7	5
95	Elevated peak systolic blood pressure in enduranceâ€trained athletes: Physiology or pathology?. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 956-966.	1.3	5
96	Ozone pollution: a â€˜hiddenâ€™ environmental layer for athletes preparing for the Tokyo 2020 Olympics & Paralympics. British Journal of Sports Medicine, 2021, 55, 189-190.	3.1	5
97	Effects of inhaled bronchodilators and corticosteroids on exercise induced arterial hypoxaemia in trained male athletes. British Journal of Sports Medicine, 2005, 39, 917-920.	3.1	4
98	Ventilatory responses to constant load exercise following the inhalation of a short-acting ÃŸ2-agonist in a laboratory-controlled diesel exhaust exposure study in individuals with exercise-induced bronchoconstriction. Environment International, 2021, 146, 106182.	4.8	4
99	The Efficacy of Heat Acclimatization Pre-World Cup in Female Soccer Players. Frontiers in Sports and Active Living, 2021, 3, 614370.	0.9	4
100	Diagnosis of Exercise-induced Bronchoconstriction in Swimmers: Context Matters. Medicine and Science in Sports and Exercise, 2020, 52, 1855-1861.	0.2	4
101	A Meta-Analysis of Exhaled Nitric Oxide in Acute Normobaric Hypoxia. Aerospace Medicine and Human Performance, 2015, 86, 693-697.	0.2	3
102	Inconsistent calculation methodology for the eucapnic voluntary hyperpnoea test affects the diagnosis of exercise-induced bronchoconstriction. BMJ Open Respiratory Research, 2018, 5, e000358.	1.2	3
103	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.	1.0	3
104	Consecutive nonâ€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.	1.4	3
105	Reliability of diaphragm voluntary activation measurements in healthy adults. Applied Physiology, Nutrition and Metabolism, 2021, 46, 247-256.	0.9	3
106	Physical performance development in a female national team soccer program. Journal of Science and Medicine in Sport, 2021, 24, 597-602.	0.6	3
107	Clarifying the role of physical activity in osteoarthritis and rheumatoid arthritis. Journal of Physiology, 2017, 595, 5713-5713.	1.3	2
108	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.	0.7	2

#	Article	IF	Citations
109	Effects of training load and nonâ€training stress on injury risk in collegiate ice hockey players. Translational Sports Medicine, 2021, 4, 931-936.	0.5	2
110	Poster 7 Normative Data for the Balance Error Scoring System in Community-Dwelling Adults. Archives of Physical Medicine and Rehabilitation, 2011, 92, 1695-1696.	0.5	1
111	Exercise Medicine In Residency Training. Medicine and Science in Sports and Exercise, 2016, 48, 131.	0.2	1
112	Perfusion of Intrapulmonary Arteriovenous Anastomoses Is Not Related to VO2max in Hypoxia and Is Unchanged by Oral Sildenafil. High Altitude Medicine and Biology, 2019, 20, 399-406.	0.5	1
113	Forced Expiratory Volume in 1 Second Is Not Affected by Exposure to Diesel Exhaust and Cycling Exercise in Individuals with Exercise-Induced Bronchoconstriction. ISEE Conference Abstracts, 2018, 2018, .	0.0	1
114	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.	1.3	1
115	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.	1.2	1
116	Patellofemoral Pain Syndrome in Tibetan Buddhist Monks. Wilderness and Environmental Medicine, 2006, 17, 129-131.	0.4	0
117	The Effect of Pre-exposure to Diluted Diesel Exhaust on 20km Cycling Time Trial Performance. Medicine and Science in Sports and Exercise, 2011, 43, 633-634.	0.2	0
118	Reply to Debevec and Millet. Journal of Applied Physiology, 2014, 116, 1256-1256.	1.2	0
119	Pulmonary Function And Heart Rate Variability Responses To Low- And High-intensity Cycling In Diesel Exhaust. Medicine and Science in Sports and Exercise, 2015, 47, 772.	0.2	0
120	Authors' Reply. Clinical Journal of Sport Medicine, 2015, 25, 173.	0.9	0
121	Thirty Minutes of Sub-Maximal Cycling Improves Cognitive Function Despite Diesel Exhaust Exposure. Medicine and Science in Sports and Exercise, 2016, 48, 427.	0.2	0
122	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.	0.8	0
123	Is The EVH Test Best For Diagnosing Exercise Induced Bronchoconstriction In Swimmers?. Medicine and Science in Sports and Exercise, 2019, 51, 422-422.	0.2	0
124	Reply to Beltrami. Experimental Physiology, 2021, 106, 791-792.	0.9	0
125	Evaluating Arterial Blood Flow Limitation Using Muscle Oxygenation and Cycling Power. Clinical Journal of Sport Medicine, 2021, Publish Ahead of Print, .	0.9	0
126	Inflammation and Exercise-Induced Arterial Hypoxemia in the Asthmatic Female Athlete. Medicine and Science in Sports and Exercise, 2004, 36, S128.	0.2	0

#	Article	IF	Citations
127	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. Medicine and Science in Sports and Exercise, 2004, 36, S265.	0.2	0
128	Hypoxic Ventilatory Response in Trained Male and Female Cyclists. Medicine and Science in Sports and Exercise, 2004, 36, S265.	0.2	0
129	Hyperthermia significantly increases ventilatory response to isocapnic hypoxia in humans. FASEB Journal, 2008, 22, 130-130.	0.2	0
130	Influence of sex and training status on cardiac and baroreceptor function following combined highâ€intensity interval exercise and orthostatic stress. FASEB Journal, 2013, 27, 711.1.	0.2	0
131	The endothelial responses to lowâ€and highâ€intensity cycling with diesel exhaust exposure (1106.21). FASEB Journal, 2014, 28, 1106.21.	0.2	0
132	Effects Of Exercise-induced Respiratory Muscle Work And Hypoxemia On Quadriceps Fatigue In Men Versus Women. Medicine and Science in Sports and Exercise, 2016, 48, 671.	0.2	0
133	Airway Dysfunction in Elite Athletes. , 2020, , 147-157.		0
134	Near-infrared Spectroscopy Measures Of Sternocleidomastoid Blood Flow During Exercise And Hyperpnea. Medicine and Science in Sports and Exercise, 2020, 52, 394-395.	0.2	0
135	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.	0.2	0