Sarah J Willis

List of Publications by Year
in descending order

37 papers	667 citations	567281 15 h-index	580821 25 g-index
37 all docs	37 docs citations	37 times ranked	818 citing authors

#	Article	IF	Citations
1	Repeated Double-Poling Sprint Training in Hypoxia by Competitive Cross-country Skiers. Medicine and Science in Sports and Exercise, 2015, 47, 809-817.	0.4	66
2	Highâ€intensity sprint training inhibits mitochondrial respiration through aconitase inactivation. FASEB Journal, 2016, 30, 417-427.	0.5	64
3	The Physiological Mechanisms of Performance Enhancement with Sprint Interval Training Differ between the Upper and Lower Extremities in Humans. Frontiers in Physiology, 2016, 7, 426.	2.8	60
4	Endurance Exercise Enhances the Effect of Strength Training on Muscle Fiber Size and Protein Expression of Akt and mTOR. PLoS ONE, 2016, 11, e0149082.	2.5	58
5	Postâ€exercise recovery of contractile function and endurance in humans and mice is accelerated by heating and slowed by cooling skeletal muscle. Journal of Physiology, 2017, 595, 7413-7426.	2.9	52
6	Oxygenation time course and neuromuscular fatigue during repeated cycling sprints with bilateral blood flow restriction. Physiological Reports, 2018, 6, e13872.	1.7	37
7	Live highâ€“train low guided by daily heart rate variability in elite Nordic-skiers. European Journal of Applied Physiology, 2018, 118, 419-428.	2.5	32
8	Mitochondrial oxygen affinity increases after sprint interval training and is related to the improvement in peak oxygen uptake. Acta Physiologica, 2020, 229, e13463.	3.8	26
9	Changes in Muscle and Cerebral Deoxygenation and Perfusion during Repeated Sprints in Hypoxia to Exhaustion. Frontiers in Physiology, 2017, 8, 846.	2.8	25
10	Leg- vs arm-cycling repeated sprints with blood flow restriction and systemic hypoxia. European Journal of Applied Physiology, 2019, 119, 1819-1828.	2.5	24
11	Comparison Between Three Different Endurance Tests in Professional Soccer Players. Journal of Strength and Conditioning Research, 2013, 27, 31-37.	2.1	21
12	Effect of Carrying a Rifle on Physiology and Biomechanical Responses in Biathletes. Medicine and Science in Sports and Exercise, 2015, 47, 617-624.	0.4	20
13	Neuromuscular evaluation of arm-cycling repeated sprints under hypoxia and/or blood flow restriction. European Journal of Applied Physiology, 2019, 119, 1533-1545.	2.5	19
14	Vascular and oxygenation responses of local ischemia and systemic hypoxia during arm cycling repeated sprints. Journal of Science and Medicine in Sport, 2019, 22, 1151-1156.	1.3	18
15	Physiological Comparison of Concentric and Eccentric Arm Cycling in Males and Females. PLoS ONE, 2014, 9, e112079.	2.5	17
16	Ischemic Preconditioning Maintains Performance on Two 5-km Time Trials in Hypoxia. Medicine and Science in Sports and Exercise, 2019, 51, 2309-2317.	0.4	16
17	Level Versus Uphill Economy and Mechanical Responses in Elite Ultratrail Runners. International Journal of Sports Physiology and Performance, 2019, 14, 1001-1005.	2.3	13
18	Separate and combined effects of local and systemic hypoxia in resistance exercise. European Journal of Applied Physiology, 2019, 119, 2313-2325.	2.5	11

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19	Determinants of On-Snow Skate Sprint Cross-Country Skiing Performance for Junior and Collegiate Skiers. Medicine and Science in Sports and Exercise, 2011, 43, 7.	0.4	10
20	Effects of exercise in normobaric hypoxia on hemodynamics during muscle metaboreflex activation in normoxia. European Journal of Applied Physiology, 2019, 119, 1137-1148.	2.5	10
21	Relationship between cardiorespiratory phase coherence during hypoxia and genetic polymorphism in humans. Journal of Physiology, 2020, 598, 2001-2019.	2.9	10
22	Effects of Different Training Intensity Distributions Between Elite Cross-Country Skiers and Nordic-Combined Athletes During Live High-Train Low. Frontiers in Physiology, 2018, 9, 932.	2.8	8
23	High-Intensity Exercise With Blood Flow Restriction or in Hypoxia as Valuable Spaceflight Countermeasures?. Frontiers in Physiology, 2019, 10, 1266.	2.8	8
24	Active Preconditioning With Blood Flow Restriction or/and Systemic Hypoxic Exposure Does Not Improve Repeated Sprint Cycling Performance. Frontiers in Physiology, 2019, 10, 1393.	2.8	8
25	Cardio-respiratory, oxidative stress and acute mountain sickness responses to normobaric and hypobaric hypoxia in prematurely born adults. European Journal of Applied Physiology, 2020, 120, 1341-1355.	2.5	8
26	Cross-Country Skiing and Postexercise Heart-Rate Recovery. International Journal of Sports Physiology and Performance, 2015, 10, 11-16.	2.3	6
27	Alterations in aerobic energy expenditure and neuromuscular function during a simulated cross-country skiathlon with the skating technique. Human Movement Science, 2015, 40, 326-340.	1.4	4
28	Post-exercise accumulation of interstitial lung water is greater in hypobaric than normobaric hypoxia in adults born prematurely. Respiratory Physiology and Neurobiology, 2022, 297, 103828.	1.6	4
29	Test-retest Reliability Of Vertical Jump Performance In Competitive Cross Country Skiers. Medicine and Science in Sports and Exercise, 2011, 43, 8.	0.4	3
30	Insights for Blood Flow Restriction and Hypoxia in Leg Versus Arm Submaximal Exercise. International Journal of Sports Physiology and Performance, 2020, 15, 714-719.	2.3	3
31	The reproducibility of three different indicators of fatigue from plantar-flexion isokinetic testing at two knee flexion angles is not sufficient to be termed 'acceptable'. Isokinetics and Exercise Science, 2013, 21, 227-236.	0.4	2
32	Impact of the initial classic section during a simulated cross-country skiing skiathlon on the cardiopulmonary responses during the subsequent period of skate skiing. Applied Physiology, Nutrition and Metabolism, 2014, 39, 911-919.	1.9	2
33	Repeated Cycling Sprints with Different Restricted Blood Flow Levels. , 2016, , .		2
34	The Influence of Compression Tights on Markers of Economy for Cross-Country Skiers During Steady-State Running. Medicine and Science in Sports and Exercise, 2011, 43, 8.	0.4	0
35	Resistance Exercise In Hypoxia Combined With Blood Flow Restriction. Medicine and Science in Sports and Exercise, 2017, 49, 243.	0.4	0
36	Muscle Heating Accelerates Recovery in Mouse and Human Skeletal Muscle Following Fatigue. Medicine and Science in Sports and Exercise, 2015, 47, 195-196.	0.4	0

#	Article	IF	Citations
37	Larger exercise-induced lung comets increase in adults born preterm in hypobaric vs. normobaric hypoxia. , 2017, , .		0