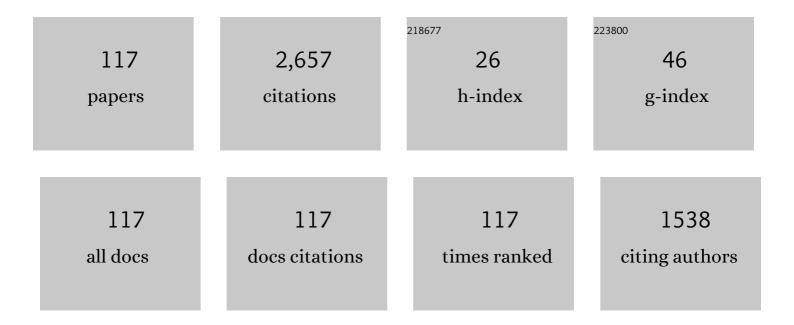
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Physiological Capacity and Training Routines of Elite Cross-Country Skiers: Approaching the Upper Limits of Human Endurance. International Journal of Sports Physiology and Performance, 2017, 12, 1003-1011.	2.3	142
2	Analysis of sprint cross-country skiing using a differential global navigation satellite system. European Journal of Applied Physiology, 2010, 110, 585-595.	2.5	136
3	The Training and Development of Elite Sprint Performance: an Integration of Scientific and Best Practice Literature. Sports Medicine - Open, 2019, 5, 44.	3.1	128
4	Metabolic rate and gross efficiency at high work rates in world class and national level sprint skiers. European Journal of Applied Physiology, 2010, 109, 473-481.	2.5	114
5	The Training Characteristics of the World's Most Successful Female Cross-Country Skier. Frontiers in Physiology, 2017, 8, 1069.	2.8	107
6	A Reappraisal of Success Factors for Olympic Cross-Country Skiing. International Journal of Sports Physiology and Performance, 2014, 9, 117-121.	2.3	106
7	Dietary Nitrate Does Not Enhance Running Performance in Elite Cross-Country Skiers. Medicine and Science in Sports and Exercise, 2012, 44, 2213-2219.	0.4	105
8	Analysis of a sprint ski race and associated laboratory determinants of world-class performance. European Journal of Applied Physiology, 2011, 111, 947-957.	2.5	101
9	Sex Differences in World-Record Performance: The Influence of Sport Discipline and Competition Duration. International Journal of Sports Physiology and Performance, 2018, 13, 2-8.	2.3	87
10	The Physiological Capacity of the World's Highest Ranked Female Cross-country Skiers. Medicine and Science in Sports and Exercise, 2016, 48, 1091-1100.	0.4	79
11	Training During the COVID-19 Lockdown: Knowledge, Beliefs, and Practices of 12,526 Athletes from 142 Countries and Six Continents. Sports Medicine, 2022, 52, 933-948.	6.5	78
12	Gender differences in power production, energetic capacity and efficiency of elite cross-country skiers during whole-body, upper-body, and arm poling. European Journal of Applied Physiology, 2016, 116, 291-300.	2.5	67
13	Analysis of Classical Time-Trial Performance and Technique-Specific Physiological Determinants in Elite Female Cross-Country Skiers. Frontiers in Physiology, 2016, 7, 326.	2.8	55
14	Speed and Heart-Rate Profiles in Skating and Classical Cross-Country-Skiing Competitions. International Journal of Sports Physiology and Performance, 2015, 10, 873-880.	2.3	54
15	New Records in Human Power. International Journal of Sports Physiology and Performance, 2018, 13, 678-686.	2.3	51
16	Effects of acute supplementation of L-arginine and nitrate on endurance and sprint performance in elite athletes. Nitric Oxide - Biology and Chemistry, 2015, 48, 10-15.	2.7	48
17	The influence of incline and speed on work rate, gross efficiency and kinematics of roller ski skating. European Journal of Applied Physiology, 2012, 112, 2829-2838.	2.5	47
18	Are Gender Differences in Upper-Body Power Generated by Elite Cross-Country Skiers Augmented by Increasing the Intensity of Exercise?. PLoS ONE, 2015, 10, e0127509.	2.5	47

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19	Gender differences in the physiological responses and kinematic behaviour of elite sprint cross-country skiers. European Journal of Applied Physiology, 2012, 112, 1087-1094.	2.5	41
20	Peak oxygen uptake in Paralympic sitting sports: A systematic literature review, meta- and pooled-data analysis. PLoS ONE, 2018, 13, e0192903.	2.5	40
21	Sex-based differences in speed, sub-technique selection, and kinematic patterns during low- and high-intensity training for classical cross-country skiing. PLoS ONE, 2018, 13, e0207195.	2.5	36
22	Automatic Classification of Sub-Techniques in Classical Cross-Country Skiing Using a Machine Learning Algorithm on Micro-Sensor Data. Sensors, 2018, 18, 75.	3.8	36
23	Comparison of the Effects of Performance Level and Sex on Sprint Performance in the Biathlon World Cup. International Journal of Sports Physiology and Performance, 2018, 13, 360-366.	2.3	31
24	Crossing the Golden Training Divide: The Science and Practice of Training World-Class 800- and 1500-m Runners. Sports Medicine, 2021, 51, 1835-1854.	6.5	31
25	The role of incline, performance level, and gender on the gross mechanical efficiency of roller ski skating. Frontiers in Physiology, 2013, 4, 293.	2.8	30
26	On the Importance of "Front-Side Mechanics―in Athletics Sprinting. International Journal of Sports Physiology and Performance, 2018, 13, 420-427.	2.3	29
27	A Comparison of Frontal Theta Activity During Shooting among Biathletes and Cross-Country Skiers before and after Vigorous Exercise. PLoS ONE, 2016, 11, e0150461.	2.5	28
28	A multi-sensor system for automatic analysis of classical cross-country skiing techniques. Sports Engineering, 2017, 20, 313-327.	1.1	27
29	Block vs. Traditional Periodization of HIT: Two Different Paths to Success for the World's Best Cross-Country Skier. Frontiers in Physiology, 2019, 10, 375.	2.8	27
30	The effects of skiing velocity on mechanical aspects of diagonal cross-country skiing. Sports Biomechanics, 2014, 13, 267-284.	1.6	25
31	The Role of Power Fluctuations in the Preference of Diagonal vs. Double Poling Sub-Technique at Different Incline-Speed Combinations in Elite Cross-Country Skiers. Frontiers in Physiology, 2017, 8, 94.	2.8	25
32	The Influence of Pole Length on Performance, O2 Cost, and Kinematics in Double Poling. International Journal of Sports Physiology and Performance, 2017, 12, 211-217.	2.3	24
33	Changes in Technique and Efficiency After High-Intensity Exercise in Cross-Country Skiers. International Journal of Sports Physiology and Performance, 2014, 9, 19-24.	2.3	22
34	Contribution of Upper-Body Strength, Body Composition, and Maximal Oxygen Uptake to Predict Double Poling Power and Overall Performance in Female Cross-Country Skiers. Journal of Strength and Conditioning Research, 2016, 30, 2557-2564.	2.1	22
35	The Evolution of Champion Cross-Country-Skier Training: From Lumberjacks to Professional Athletes. International Journal of Sports Physiology and Performance, 2017, 12, 254-259.	2.3	20
36	The Contribution From Cross-Country Skiing and Shooting Variables on Performance-Level and Sex Differences in Biathlon World Cup Individual Races. International Journal of Sports Physiology and Performance, 2019, 14, 190-195.	2.3	20

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37	Sport-Specific Physiological Adaptations in Highly Trained Endurance Athletes. Medicine and Science in Sports and Exercise, 2015, 47, 2150-2157.	0.4	19
38	Mechanical Energy and Propulsion in Ergometer Double Poling by Cross-country Skiers. Medicine and Science in Sports and Exercise, 2015, 47, 2586-2594.	0.4	19
39	Sedentary Time, Cardiorespiratory Fitness, and Cardiovascular Risk Factor Clustering in Older Adultsthe Generation 100 Study. Mayo Clinic Proceedings, 2016, 91, 1525-1534.	3.0	18
40	Effects of upper-body sprint-interval training on strength and endurance capacities in female cross-country skiers. PLoS ONE, 2017, 12, e0172706.	2.5	17
41	Mechanical energetics and dynamics of uphill double-poling on roller-skis at different incline-speed combinations. PLoS ONE, 2019, 14, e0212500.	2.5	17
42	COVID-19 Lockdown: A Global Study Investigating the Effect of Athletes' Sport Classification and Sex on Training Practices. International Journal of Sports Physiology and Performance, 2022, 17, 1242-1256.	2.3	16
43	Using the power balance model to simulate cross-country skiing on varying terrain. Open Access Journal of Sports Medicine, 2014, 5, 89.	1.3	15
44	The Interval-Based Physiological and Mechanical Demands of Cross-Country Ski Training. International Journal of Sports Physiology and Performance, 2019, 14, 1371-1377.	2.3	15
45	The Effect of Maximal Speed Ability, Pacing Strategy, and Technique on the Finish Sprint of a Sprint Cross-Country Skiing Competition. International Journal of Sports Physiology and Performance, 2019, 14, 788-795.	2.3	15
46	On the Relationship Between Upper-Body Strength, Power, and Sprint Performance in Ice Sledge Hockey. Journal of Strength and Conditioning Research, 2013, 27, 3461-3466.	2.1	14
47	The Velocity and Energy Profiles of Elite Cross-Country Skiers Executing Downhill Turns With Different Radii. International Journal of Sports Physiology and Performance, 2014, 9, 41-47.	2.3	14
48	The Long-Term Development of Training, Technical, and Physiological Characteristics of an Olympic Champion in Nordic Combined. Frontiers in Physiology, 2018, 9, 931.	2.8	14
49	Assessment of Basic Motions and Technique Identification in Classical Cross-Country Skiing. Frontiers in Psychology, 2019, 10, 1260.	2.1	14
50	How Do World-Class Nordic Combined Athletes Differ From Specialized Cross-Country Skiers and Ski Jumpers in Sport-Specific Capacity and Training Characteristics?. International Journal of Sports Physiology and Performance, 2016, 11, 899-906.	2.3	13
51	Reciprocal Associations Between Sleep, Mental Strain, and Training Load in Junior Endurance Athletes and the Role of Poor Subjective Sleep Quality. Frontiers in Psychology, 2020, 11, 545581.	2.1	13
52	The physiological and biomechanical contributions of poling to roller ski skating. European Journal of Applied Physiology, 2013, 113, 1979-1987.	2.5	12
53	The effects of heavy upper-body strength training on ice sledge hockey sprint abilities in world class players. Human Movement Science, 2014, 38, 251-261.	1.4	12
54	On the Existence of Step-To-Step Breakpoint Transitions in Accelerated Sprinting. PLoS ONE, 2016, 11, e0159701.	2.5	12

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55	Comparison of peak oxygen uptake and exercise efficiency between upper-body poling and arm crank ergometry in trained paraplegic and able-bodied participants. European Journal of Applied Physiology, 2018, 118, 1857-1867.	2.5	12
56	Exercise-induced trunk fatigue decreases double poling performance in well-trained cross-country skiers. European Journal of Applied Physiology, 2018, 118, 2077-2087.	2.5	12
57	Laboratory- and field-based performance-predictions in cross-country skiing and roller-skiing. PLoS ONE, 2021, 16, e0256662.	2.5	12
58	The physiological responses to repeated upper-body sprint exercise in highly trained athletes. European Journal of Applied Physiology, 2015, 115, 1381-1391.	2.5	11
59	The physiological and biomechanical differences between double poling and G3 skating in world class cross-country skiers. European Journal of Applied Physiology, 2015, 115, 483-487.	2.5	11
60	Let's Close the Gap Between Research and Practice to Discover New Land Together!. International Journal of Sports Physiology and Performance, 2018, 13, 961.	2.3	11
61	Analysis of a Biathlon Sprint Competition and Associated Laboratory Determinants of Performance. Frontiers in Sports and Active Living, 2019, 1, 60.	1.8	11
62	Sex-based differences in sub-technique selection during an international classical cross-country skiing competition. PLoS ONE, 2020, 15, e0239862.	2.5	11
63	Metabolic load comparison between the quarters of a game in elite male basketball players using sport metabolomics. European Journal of Sport Science, 2021, 21, 1022-1034.	2.7	11
64	Exploring intensity-dependent modulations in EEG resting-state network efficiency induced by exercise. European Journal of Applied Physiology, 2021, 121, 2423-2435.	2.5	11
65	Sex differences in sleep and influence of the menstrual cycle on women's sleep in junior endurance athletes. PLoS ONE, 2021, 16, e0253376.	2.5	11
66	The Effects of Cold Environments on Double-Poling Performance and Economy in Male Cross-Country Skiers Wearing a Standard Racing Suit. International Journal of Sports Physiology and Performance, 2016, 11, 776-782.	2.3	10
67	The role of speed and incline in the spontaneous choice of technique in classical roller-skiing. Human Movement Science, 2017, 55, 100-107.	1.4	10
68	The effect of exercise intensity on joint power and dynamics in ergometer double-poling performed by cross-country skiers. Human Movement Science, 2018, 57, 83-93.	1.4	10
69	Comparison of Short-Sprint and Heavy Strength Training on Cycling Performance. Frontiers in Physiology, 2019, 10, 1132.	2.8	9
70	The Training Characteristics of World-Class Male Long-Distance Cross-Country Skiers. Frontiers in Sports and Active Living, 2021, 3, 641389.	1.8	9
71	Association between laboratory capacities and world-cup performance in Nordic combined. PLoS ONE, 2017, 12, e0180388.	2.5	8
72	Effects of Initial Performance, Gross Efficiency and O2peak Characteristics on Subsequent Adaptations to Endurance Training in Competitive Cyclists. Frontiers in Physiology, 2018, 9, 713.	2.8	8

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73	Contribution from cross-country skiing, start time and shooting components to the overall and isolated biathlon pursuit race performance. PLoS ONE, 2020, 15, e0239057.	2.5	8
74	Physiological and Biomechanical Determinants of Sprint Ability Following Variable Intensity Exercise When Roller Ski Skating. Frontiers in Physiology, 2021, 12, 638499.	2.8	8
75	The effects of the arm swing on biomechanical and physiological aspects of roller ski skating. Human Movement Science, 2014, 36, 1-11.	1.4	7
76	The Physiology and Biomechanics of Upper-Body Repeated Sprints in Ice Sledge Hockey. International Journal of Sports Physiology and Performance, 2014, 9, 77-84.	2.3	7
77	Estimation of Mechanical Power Output Employing Deep Learning on Inertial Measurement Data in Roller Ski Skating. Sensors, 2021, 21, 6500.	3.8	7
78	Concurrent Development of Endurance Capacity and Explosiveness: Training Characteristics of World-Class Nordic Combined Athletes. International Journal of Sports Physiology and Performance, 2016, 11, 643-651.	2.3	6
79	Strength Determinants of Jump Height in the Jump Throw Movement in Women Handball Players. Journal of Strength and Conditioning Research, 2020, 34, 2937-2946.	2.1	6
80	Intensity Control During Block-Periodized High-Intensity Training: Heart Rate and Lactate Concentration During Three Annual Seasons in World-Class Cross-Country Skiers. Frontiers in Sports and Active Living, 2020, 2, 549407.	1.8	6
81	How Hinge Positioning in Cross-Country Ski Bindings Affect Exercise Efficiency, Cycle Characteristics and Muscle Coordination during Submaximal Roller Skiing. PLoS ONE, 2016, 11, e0153078.	2.5	6
82	Comparison of Peak Oxygen Uptake and Test-Retest Reliability of Physiological Parameters between Closed-End and Incremental Upper-Body Poling Tests. Frontiers in Physiology, 2017, 8, 857.	2.8	5
83	The influence of increased distal loading on metabolic cost, efficiency, and kinematics of roller ski skating. PLoS ONE, 2018, 13, e0197592.	2.5	5
84	The effect of exhaustive exercise on the choice of technique and physiological response in classical roller skiing. European Journal of Applied Physiology, 2018, 118, 2385-2392.	2.5	5
85	Comparison of Peak Oxygen Uptake Between Upper-Body Exercise Modes: A Systematic Literature Review and Meta-Analysis. Frontiers in Physiology, 2020, 11, 412.	2.8	5
86	Effects of Including Sprints in LIT Sessions during a 14-d Camp on Muscle Biology and Performance Measures in Elite Cyclists. Medicine and Science in Sports and Exercise, 2021, 53, 2333-2345.	0.4	5
87	Performance-Determining Variables in Long-Distance Events: Should They Be Determined From a Rested State or After Prolonged Submaximal Exercise?. International Journal of Sports Physiology and Performance, 2021, 16, 647-654.	2.3	5
88	Power Production and Biochemical Markers of Metabolic Stress and Muscle Damage Following a Single Bout of Short-Sprint and Heavy Strength Exercise in Well-Trained Cyclists. Frontiers in Physiology, 2018, 9, 155.	2.8	4
89	Player load in male elite soccer: Comparisons of patterns between matches and positions. PLoS ONE, 2020, 15, e0239162.	2.5	4
90	Effects of including sprints during prolonged cycling on hormonal and muscular responses and recovery in elite cyclists. Scandinavian Journal of Medicine and Science in Sports. 2021. 31, 529-541	2.9	4

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91	The Effect of 30-Second Sprints During Prolonged Exercise on Gross Efficiency, Electromyography, and Pedaling Technique in Elite Cyclists. International Journal of Sports Physiology and Performance, 2020, 15, 562-570.	2.3	4
92	Examination of gas exchange and blood lactate thresholds in Paralympic athletes during upper-body poling. PLoS ONE, 2018, 13, e0205588.	2.5	3
93	Effects of different increments in workload and duration on peak physiological responses during seated upper-body poling. European Journal of Applied Physiology, 2019, 119, 2025-2031.	2.5	3
94	Development of a Framework for the Investigation of Speed, Power, and Kinematic Patterns in Para Cross-Country Sit-Skiing: A Case Study of an LW12 Athlete. Frontiers in Sports and Active Living, 2019, 1, 4.	1.8	3
95	Energetic Cost and Kinematics of Pushing a Stroller on Flat and Uphill Terrain. Frontiers in Physiology, 2020, 11, 574.	2.8	3
96	Mechanical energy and propulsion mechanics in roller-skiing double-poling at increasing speeds. PLoS ONE, 2021, 16, e0255202.	2.5	3
97	Physiological and Biomechanical Responses to Cross-Country Skiing in Varying Terrain: Low- vs. High-Intensity. Frontiers in Physiology, 2021, 12, 741573.	2.8	3
98	The effects of poling on physiological, kinematic and kinetic responses in roller ski skating. European Journal of Applied Physiology, 2014, 114, 1933-1942.	2.5	2
99	Winter sports special issue. Sports Engineering, 2017, 20, 243-244.	1.1	2
100	Preparing for the Nordic Skiing Events at the Beijing Olympics in 2022: Evidence-Based Recommendations and Unanswered Questions. Journal of Science in Sport and Exercise, 2021, 3, 257-269.	1.0	2
101	Framework for In-Field Analyses of Performance and Sub-Technique Selection in Standing Para Cross-Country Skiers. Sensors, 2021, 21, 4876.	3.8	2
102	A Comparison of Double Poling Physiology and Kinematics Between Long-Distance and All-Round Cross-Country Skiers. Frontiers in Sports and Active Living, 2022, 4, 849731.	1.8	1
103	Choice of Pole and Ski Lengths Among Elite Cross-Country Skiers: The Influence of Sex and Performance Level. Frontiers in Sports and Active Living, 2021, 3, 654864.	1.8	0
104	Pole Length Influences Performance During On-Snow Skating in Female Cross-Country Skiers. Journal of Science in Sport and Exercise, 2021, 3, 348.	1.0	0
105	Comparison of Physiological and Biomechanical Responses to Flat and Uphill Cross-Country Sit-Skiing in Able-Bodied Athletes. International Journal of Sports Physiology and Performance, 2021, 16, 1596-1602.	2.3	0
106	Title is missing!. , 2020, 15, e0239057.		0
107	Title is missing!. , 2020, 15, e0239057.		0
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112	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
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114	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
115	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
116	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
117	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0