

Ãyvind Sandbakk

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6709147/publications.pdf>

Version: 2024-02-01

117
papers

2,657
citations

218381

26
h-index

223531

46
g-index

117
all docs

117
docs citations

117
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Training During the COVID-19 Lockdown: Knowledge, Beliefs, and Practices of 12,526 Athletes from 142 Countries and Six Continents. <i>Sports Medicine</i> , 2022, 52, 933-948.	3.1	78
2	A Comparison of Double Poling Physiology and Kinematics Between Long-Distance and All-Round Cross-Country Skiers. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 849731.	0.9	1
3	COVID-19 Lockdown: A Global Study Investigating the Effect of Athletes'™ Sport Classification and Sex on Training Practices. <i>International Journal of Sports Physiology and Performance</i> , 2022, 17, 1242-1256.	1.1	16
4	Metabolic load comparison between the quarters of a game in elite male basketball players using sport metabolomics. <i>European Journal of Sport Science</i> , 2021, 21, 1022-1034.	1.4	11
5	Effects of including sprints during prolonged cycling on hormonal and muscular responses and recovery in elite cyclists. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, 31, 529-541.	1.3	4
6	The Training Characteristics of World-Class Male Long-Distance Cross-Country Skiers. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 641389.	0.9	9
7	Physiological and Biomechanical Determinants of Sprint Ability Following Variable Intensity Exercise When Roller Ski Skating. <i>Frontiers in Physiology</i> , 2021, 12, 638499.	1.3	8
8	Choice of Pole and Ski Lengths Among Elite Cross-Country Skiers: The Influence of Sex and Performance Level. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 654864.	0.9	0
9	Effects of Including Sprints in LIT Sessions during a 14-d Camp on Muscle Biology and Performance Measures in Elite Cyclists. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 2333-2345.	0.2	5
10	Performance-Determining Variables in Long-Distance Events: Should They Be Determined From a Rested State or After Prolonged Submaximal Exercise?. <i>International Journal of Sports Physiology and Performance</i> , 2021, 16, 647-654.	1.1	5
11	Preparing for the Nordic Skiing Events at the Beijing Olympics in 2022: Evidence-Based Recommendations and Unanswered Questions. <i>Journal of Science in Sport and Exercise</i> , 2021, 3, 257-269.	0.4	2
12	Crossing the Golden Training Divide: The Science and Practice of Training World-Class 800- and 1500-m Runners. <i>Sports Medicine</i> , 2021, 51, 1835-1854.	3.1	31
13	Exploring intensity-dependent modulations in EEG resting-state network efficiency induced by exercise. <i>European Journal of Applied Physiology</i> , 2021, 121, 2423-2435.	1.2	11
14	Sex differences in sleep and influence of the menstrual cycle on women's™ sleep in junior endurance athletes. <i>PLoS ONE</i> , 2021, 16, e0253376.	1.1	11
15	Mechanical energy and propulsion mechanics in roller-skiing double-poling at increasing speeds. <i>PLoS ONE</i> , 2021, 16, e0255202.	1.1	3
16	Framework for In-Field Analyses of Performance and Sub-Technique Selection in Standing Para Cross-Country Skiers. <i>Sensors</i> , 2021, 21, 4876.	2.1	2
17	Laboratory- and field-based performance-predictions in cross-country skiing and roller-skiing. <i>PLoS ONE</i> , 2021, 16, e0256662.	1.1	12
18	Estimation of Mechanical Power Output Employing Deep Learning on Inertial Measurement Data in Roller Ski Skating. <i>Sensors</i> , 2021, 21, 6500.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Physiological and Biomechanical Responses to Cross-Country Skiing in Varying Terrain: Low- vs. High-Intensity. <i>Frontiers in Physiology</i> , 2021, 12, 741573.	1.3	3
20	Pole Length Influences Performance During On-Snow Skating in Female Cross-Country Skiers. <i>Journal of Science in Sport and Exercise</i> , 2021, 3, 348.	0.4	0
21	Comparison of Physiological and Biomechanical Responses to Flat and Uphill Cross-Country Sit-Skiing in Able-Bodied Athletes. <i>International Journal of Sports Physiology and Performance</i> , 2021, 16, 1596-1602.	1.1	0
22	Strength Determinants of Jump Height in the Jump Throw Movement in Women Handball Players. <i>Journal of Strength and Conditioning Research</i> , 2020, 34, 2937-2946.	1.0	6
23	Sex-based differences in sub-technique selection during an international classical cross-country skiing competition. <i>PLoS ONE</i> , 2020, 15, e0239862.	1.1	11
24	Intensity Control During Block-Periodized High-Intensity Training: Heart Rate and Lactate Concentration During Three Annual Seasons in World-Class Cross-Country Skiers. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 549407.	0.9	6
25	Player load in male elite soccer: Comparisons of patterns between matches and positions. <i>PLoS ONE</i> , 2020, 15, e0239162.	1.1	4
26	Contribution from cross-country skiing, start time and shooting components to the overall and isolated biathlon pursuit race performance. <i>PLoS ONE</i> , 2020, 15, e0239057.	1.1	8
27	Comparison of Peak Oxygen Uptake Between Upper-Body Exercise Modes: A Systematic Literature Review and Meta-Analysis. <i>Frontiers in Physiology</i> , 2020, 11, 412.	1.3	5
28	Energetic Cost and Kinematics of Pushing a Stroller on Flat and Uphill Terrain. <i>Frontiers in Physiology</i> , 2020, 11, 574.	1.3	3
29	The Effect of 30-Second Sprints During Prolonged Exercise on Gross Efficiency, Electromyography, and Pedaling Technique in Elite Cyclists. <i>International Journal of Sports Physiology and Performance</i> , 2020, 15, 562-570.	1.1	4
30	Reciprocal Associations Between Sleep, Mental Strain, and Training Load in Junior Endurance Athletes and the Role of Poor Subjective Sleep Quality. <i>Frontiers in Psychology</i> , 2020, 11, 545581.	1.1	13
31	Title is missing!. , 2020, 15, e0239057.		0
32	Title is missing!. , 2020, 15, e0239057.		0
33	Title is missing!. , 2020, 15, e0239057.		0
34	Title is missing!. , 2020, 15, e0239057.		0
35	Title is missing!. , 2020, 15, e0239057.		0
36	Title is missing!. , 2020, 15, e0239057.		0

#	ARTICLE	IF	CITATIONS
37	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
38	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
39	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
40	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
41	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
42	Player load in male elite soccer: Comparisons of patterns between matches and positions. , 2020, 15, e0239162.		0
43	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.	1.1	20
44	Comparison of Short-Sprint and Heavy Strength Training on Cycling Performance. Frontiers in Physiology, 2019, 10, 1132.	1.3	9
45	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.	1.2	3
46	Assessment of Basic Motions and Technique Identification in Classical Cross-Country Skiing. Frontiers in Psychology, 2019, 10, 1260.	1.1	14
47	Mechanical energetics and dynamics of uphill double-poling on roller-skis at different incline-speed combinations. PLoS ONE, 2019, 14, e0212500.	1.1	17
48	The Interval-Based Physiological and Mechanical Demands of Cross-Country Ski Training. International Journal of Sports Physiology and Performance, 2019, 14, 1371-1377.	1.1	15
49	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.	1.3	27
50	Analysis of a Biathlon Sprint Competition and Associated Laboratory Determinants of Performance. Frontiers in Sports and Active Living, 2019, 1, 60.	0.9	11
51	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.	0.9	3
52	The Training and Development of Elite Sprint Performance: an Integration of Scientific and Best Practice Literature. Sports Medicine - Open, 2019, 5, 44.	1.3	128
53	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.	1.1	15
54	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.	1.1	87

#	ARTICLE	IF	CITATIONS
55	New Records in Human Power. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 678-686.	1.1	51
56	On the Importance of "Front-Side Mechanics" in Athletics Sprinting. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 420-427.	1.1	29
57	The effect of exercise intensity on joint power and dynamics in ergometer double-poling performed by cross-country skiers. <i>Human Movement Science</i> , 2018, 57, 83-93.	0.6	10
58	Comparison of the Effects of Performance Level and Sex on Sprint Performance in the Biathlon World Cup. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 360-366.	1.1	31
59	Sex-based differences in speed, sub-technique selection, and kinematic patterns during low- and high-intensity training for classical cross-country skiing. <i>PLoS ONE</i> , 2018, 13, e0207195.	1.1	36
60	Examination of gas exchange and blood lactate thresholds in Paralympic athletes during upper-body poling. <i>PLoS ONE</i> , 2018, 13, e0205588.	1.1	3
61	Let's™ Close the Gap Between Research and Practice to Discover New Land Together!. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 961.	1.1	11
62	Automatic Classification of Sub-Techniques in Classical Cross-Country Skiing Using a Machine Learning Algorithm on Micro-Sensor Data. <i>Sensors</i> , 2018, 18, 75.	2.1	36
63	The influence of increased distal loading on metabolic cost, efficiency, and kinematics of roller ski skating. <i>PLoS ONE</i> , 2018, 13, e0197592.	1.1	5
64	Comparison of peak oxygen uptake and exercise efficiency between upper-body poling and arm crank ergometry in trained paraplegic and able-bodied participants. <i>European Journal of Applied Physiology</i> , 2018, 118, 1857-1867.	1.2	12
65	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. <i>Frontiers in Physiology</i> , 2018, 9, 155.	1.3	4
66	Effects of Initial Performance, Gross Efficiency and O ₂ peak Characteristics on Subsequent Adaptations to Endurance Training in Competitive Cyclists. <i>Frontiers in Physiology</i> , 2018, 9, 713.	1.3	8
67	The Long-Term Development of Training, Technical, and Physiological Characteristics of an Olympic Champion in Nordic Combined. <i>Frontiers in Physiology</i> , 2018, 9, 931.	1.3	14
68	Exercise-induced trunk fatigue decreases double poling performance in well-trained cross-country skiers. <i>European Journal of Applied Physiology</i> , 2018, 118, 2077-2087.	1.2	12
69	The effect of exhaustive exercise on the choice of technique and physiological response in classical roller skiing. <i>European Journal of Applied Physiology</i> , 2018, 118, 2385-2392.	1.2	5
70	Peak oxygen uptake in Paralympic sitting sports: A systematic literature review, meta- and pooled-data analysis. <i>PLoS ONE</i> , 2018, 13, e0192903.	1.1	40
71	The Evolution of Champion Cross-Country-Skier Training: From Lumberjacks to Professional Athletes. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 254-259.	1.1	20
72	Physiological Capacity and Training Routines of Elite Cross-Country Skiers: Approaching the Upper Limits of Human Endurance. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 1003-1011.	1.1	142

#	ARTICLE	IF	CITATIONS
73	The role of speed and incline in the spontaneous choice of technique in classical roller-skiing. <i>Human Movement Science</i> , 2017, 55, 100-107.	0.6	10
74	The Influence of Pole Length on Performance, O ₂ Cost, and Kinematics in Double Poling. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 211-217.	1.1	24
75	A multi-sensor system for automatic analysis of classical cross-country skiing techniques. <i>Sports Engineering</i> , 2017, 20, 313-327.	0.5	27
76	Winter sports special issue. <i>Sports Engineering</i> , 2017, 20, 243-244.	0.5	2
77	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. <i>Frontiers in Physiology</i> , 2017, 8, 94.	1.3	25
78	Comparison of Peak Oxygen Uptake and Test-Retest Reliability of Physiological Parameters between Closed-End and Incremental Upper-Body Poling Tests. <i>Frontiers in Physiology</i> , 2017, 8, 857.	1.3	5
79	The Training Characteristics of the World's Most Successful Female Cross-Country Skier. <i>Frontiers in Physiology</i> , 2017, 8, 1069.	1.3	107
80	Effects of upper-body sprint-interval training on strength and endurance capacities in female cross-country skiers. <i>PLoS ONE</i> , 2017, 12, e0172706.	1.1	17
81	Association between laboratory capacities and world-cup performance in Nordic combined. <i>PLoS ONE</i> , 2017, 12, e0180388.	1.1	8
82	On the Existence of Step-To-Step Breakpoint Transitions in Accelerated Sprinting. <i>PLoS ONE</i> , 2016, 11, e0159701.	1.1	12
83	Analysis of Classical Time-Trial Performance and Technique-Specific Physiological Determinants in Elite Female Cross-Country Skiers. <i>Frontiers in Physiology</i> , 2016, 7, 326.	1.3	55
84	Contribution of Upper-Body Strength, Body Composition, and Maximal Oxygen Uptake to Predict Double Poling Power and Overall Performance in Female Cross-Country Skiers. <i>Journal of Strength and Conditioning Research</i> , 2016, 30, 2557-2564.	1.0	22
85	The Physiological Capacity of the World's™ Highest Ranked Female Cross-country Skiers. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1091-1100.	0.2	79
86	The Effects of Cold Environments on Double-Poling Performance and Economy in Male Cross-Country Skiers Wearing a Standard Racing Suit. <i>International Journal of Sports Physiology and Performance</i> , 2016, 11, 776-782.	1.1	10
87	Concurrent Development of Endurance Capacity and Explosiveness: Training Characteristics of World-Class Nordic Combined Athletes. <i>International Journal of Sports Physiology and Performance</i> , 2016, 11, 643-651.	1.1	6
88	How Do World-Class Nordic Combined Athletes Differ From Specialized Cross-Country Skiers and Ski Jumpers in Sport-Specific Capacity and Training Characteristics?. <i>International Journal of Sports Physiology and Performance</i> , 2016, 11, 899-906.	1.1	13
89	Sedentary Time, Cardiorespiratory Fitness, and Cardiovascular Risk Factor Clustering in Older Adults—the Generation 100 Study. <i>Mayo Clinic Proceedings</i> , 2016, 91, 1525-1534.	1.4	18
90	Gender differences in power production, energetic capacity and efficiency of elite cross-country skiers during whole-body, upper-body, and arm poling. <i>European Journal of Applied Physiology</i> , 2016, 116, 291-300.	1.2	67

#	ARTICLE	IF	CITATIONS
91	A Comparison of Frontal Theta Activity During Shooting among Biathletes and Cross-Country Skiers before and after Vigorous Exercise. PLoS ONE, 2016, 11, e0150461.	1.1	28
92	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.	1.1	6
93	Speed and Heart-Rate Profiles in Skating and Classical Cross-Country-Skiing Competitions. International Journal of Sports Physiology and Performance, 2015, 10, 873-880.	1.1	54
94	Sport-Specific Physiological Adaptations in Highly Trained Endurance Athletes. Medicine and Science in Sports and Exercise, 2015, 47, 2150-2157.	0.2	19
95	Mechanical Energy and Propulsion in Ergometer Double Poling by Cross-country Skiers. Medicine and Science in Sports and Exercise, 2015, 47, 2586-2594.	0.2	19
96	The physiological responses to repeated upper-body sprint exercise in highly trained athletes. European Journal of Applied Physiology, 2015, 115, 1381-1391.	1.2	11
97	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.	1.2	11
98	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.	1.2	48
99	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.	1.1	47
100	Using the power balance model to simulate cross-country skiing on varying terrain. Open Access Journal of Sports Medicine, 2014, 5, 89.	0.6	15
101	The effects of skiing velocity on mechanical aspects of diagonal cross-country skiing. Sports Biomechanics, 2014, 13, 267-284.	0.8	25
102	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.	0.6	12
103	The effects of poling on physiological, kinematic and kinetic responses in roller ski skating. European Journal of Applied Physiology, 2014, 114, 1933-1942.	1.2	2
104	The effects of the arm swing on biomechanical and physiological aspects of roller ski skating. Human Movement Science, 2014, 36, 1-11.	0.6	7
105	The Physiology and Biomechanics of Upper-Body Repeated Sprints in Ice Sledge Hockey. International Journal of Sports Physiology and Performance, 2014, 9, 77-84.	1.1	7
106	A Reappraisal of Success Factors for Olympic Cross-Country Skiing. International Journal of Sports Physiology and Performance, 2014, 9, 117-121.	1.1	106
107	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.	1.1	14
108	Changes in Technique and Efficiency After High-Intensity Exercise in Cross-Country Skiers. International Journal of Sports Physiology and Performance, 2014, 9, 19-24.	1.1	22

#	ARTICLE	IF	CITATIONS
109	The physiological and biomechanical contributions of poling to roller ski skating. <i>European Journal of Applied Physiology</i> , 2013, 113, 1979-1987.	1.2	12
110	The role of incline, performance level, and gender on the gross mechanical efficiency of roller ski skating. <i>Frontiers in Physiology</i> , 2013, 4, 293.	1.3	30
111	On the Relationship Between Upper-Body Strength, Power, and Sprint Performance in Ice Sledge Hockey. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 3461-3466.	1.0	14
112	Dietary Nitrate Does Not Enhance Running Performance in Elite Cross-Country Skiers. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 2213-2219.	0.2	105
113	The influence of incline and speed on work rate, gross efficiency and kinematics of roller ski skating. <i>European Journal of Applied Physiology</i> , 2012, 112, 2829-2838.	1.2	47
114	Gender differences in the physiological responses and kinematic behaviour of elite sprint cross-country skiers. <i>European Journal of Applied Physiology</i> , 2012, 112, 1087-1094.	1.2	41
115	Analysis of a sprint ski race and associated laboratory determinants of world-class performance. <i>European Journal of Applied Physiology</i> , 2011, 111, 947-957.	1.2	101
116	Metabolic rate and gross efficiency at high work rates in world class and national level sprint skiers. <i>European Journal of Applied Physiology</i> , 2010, 109, 473-481.	1.2	114
117	Analysis of sprint cross-country skiing using a differential global navigation satellite system. <i>European Journal of Applied Physiology</i> , 2010, 110, 585-595.	1.2	136