

# Thomas L Stggl

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

2,147  
citations

27  
h-index

42  
g-index

118  
ext. papers

2,539  
ext. citations

2.9  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
101	The Relationship Between Cardiorespiratory and Accelerometer-Derived Measures in Trail Running and the Influence of Sensor Location.. <i>International Journal of Sports Physiology and Performance</i> , <b>2022</b> , 1-10	3.5	
100	Breath Tools: A Synthesis of Evidence-Based Breathing Strategies to Enhance Human Running.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 813243	4.6	2
99	Decreased Postural Complexity in Overweight to Obese Children and Adolescents: A Cross-Sectional Study.. <i>Frontiers in Human Neuroscience</i> , <b>2022</b> , 16, 850548	3.3	
98	Association of national COVID-19 cases with objectively and subjectively measured mental health proxies in the Austrian Football league [An epidemiological study <b>2021</b> , 14, 1011-1021		
97	Effects of Different Tissue Flossing Applications on Range of Motion, Maximum Voluntary Contraction, and H-Reflex in Young Martial Arts Fighters. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 752641	4.6	
96	Physiological Responses and Predictors of Performance in a Simulated Competitive Ski Mountaineering Race. <i>Journal of Sports Science and Medicine</i> , <b>2021</b> , 20, 250-257	2.7	2
95	Near Infrared Spectroscopy for Muscle Specific Analysis of Intensity and Fatigue during Cross-Country Skiing Competition-A Case Report. <i>Sensors</i> , <b>2021</b> , 21,	3.8	7
94	A Comprehensive Comparison and Validation of Published Methods to Detect Turn Switch during Alpine Skiing. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
93	Towards a Live Feedback Training System: Interchangeability of Orbbec Persee and Microsoft Kinect for Exercise Monitoring. <i>Designs</i> , <b>2021</b> , 5, 30	1.8	5
92	Connected Skiing: Motion Quality Quantification in Alpine Skiing. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
91	Methodological Guidelines Designed to Improve the Quality of Research on Cross-Country Skiing. <i>Journal of Science in Sport and Exercise</i> , <b>2021</b> , 3, 207-223	1	4
90	Biomechanical Response of the Lower Extremity to Running-Induced Acute Fatigue: A Systematic Review. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 646042	4.6	6
89	Citizens, doctors, politicians - who's an expert in times of COVID-19? A survey in Austria and Germany. <i>Archives of Public Health</i> , <b>2021</b> , 79, 144	2.6	
88	Connected skiing: Validation of edge angle and radial force estimation as motion quality parameters during alpine skiing. <i>European Journal of Sport Science</i> , <b>2021</b> , 1-9	3.9	1
87	A case report of COVID-19 monitoring in the Austrian professional football league.. <i>Scientific Reports</i> , <b>2021</b> , 11, 24416	4.9	
86	Analysis of Freestyle Swimming Sprint Start Performance After Maximal Strength or Vertical Jump Training in Competitive Female and Male Junior Swimmers. <i>Journal of Strength and Conditioning Research</i> , <b>2020</b> , 34, 323-331	3.2	12
85	Comparison of visual, automatic and semiautomatic methods to determine ventilatory indices in 50 to 60 years old adults. <i>Journal of Sports Sciences</i> , <b>2020</b> , 38, 692-702	3.6	2

84	Pacing, Exercise Intensity, and Technique by Performance Level in Long-Distance Cross-Country Skiing. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 17	4.6	9
83	Comparison of the Turn Switch Time Points Measured by Portable Force Platforms and Pressure Insoles. <i>Frontiers in Sports and Active Living</i> , <b>2020</b> , 2, 2	2.3	7
82	Acute Effects of Winter Sports and Indoor Cycling on Arterial Stiffness. <i>Journal of Sports Science and Medicine</i> , <b>2020</b> , 19, 460-468	2.7	2
81	From Sensor Data to Coaching in Alpine Skiing [A Software Design to Facilitate Immediate Feedback in Sports. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 86-95	0.4	5
80	Foot Strike Angle Prediction and Pattern Classification Using Loadsol™ Wearable Sensors: A Comparison of Machine Learning Techniques. <i>Sensors</i> , <b>2020</b> , 20,	3.8	4
79	Differences in the point of optimal ventilatory efficiency and the anaerobic threshold in untrained adults aged 50 to 60 years. <i>Respiratory Physiology and Neurobiology</i> , <b>2020</b> , 282, 103516	2.8	1
78	Preoperative exercise in patients undergoing total knee arthroplasty: a pilot randomized controlled trial. <i>Archives of Physiotherapy</i> , <b>2020</b> , 10, 13	2.5	7
77	Classification of Alpine Skiing Styles Using GNSS and Inertial Measurement Units. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
76	Effectiveness and time-course adaptation of resistance training vs. plyometric training in prepubertal soccer players. <i>Journal of Sport and Health Science</i> , <b>2020</b> , 9, 620-627	8.2	11
75	Effectiveness of Grounded Sleeping on Recovery After Intensive Eccentric Muscle Loading. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 35	4.6	3
74	Comparison of Exclusive Double Poling to Classic Techniques of Cross-country Skiing. <i>Medicine and Science in Sports and Exercise</i> , <b>2019</b> , 51, 760-772	1.2	12
73	Biomechanical Adaptations and Performance Indicators in Short Trail Running. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 506	4.6	17
72	Development of an Automatic Alpine Skiing Turn Detection Algorithm Based on a Simple Sensor Setup. <i>Sensors</i> , <b>2019</b> , 19,	3.8	18
71	Changes Over a Decade in Anthropometry and Fitness of Elite Austrian Youth Soccer Players. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 333	4.6	9
70	Biomechanical differences in double poling between sexes and level of performance during a classical cross-country skiing competition. <i>Journal of Sports Sciences</i> , <b>2019</b> , 37, 1582-1590	3.6	8
69	The Training Effects of Foam Rolling on Core Strength Endurance, Balance, Muscle Performance and Range of Motion: A Randomized Controlled Trial. <i>Journal of Sports Science and Medicine</i> , <b>2019</b> , 18, 229-238	2.7	13
68	Development and Validation of a Gyroscope-Based Turn Detection Algorithm for Alpine Skiing in the Field. <i>Frontiers in Sports and Active Living</i> , <b>2019</b> , 1, 18	2.3	13
67	Cross-Country Skiing Analysis and Ski Technique Detection by High-Precision Kinematic Global Navigation Satellite System. <i>Sensors</i> , <b>2019</b> , 19,	3.8	7

66	Unstable Footwear Affects Magnitude and Structure of Variability in Postural Control. <i>Motor Control</i> , <b>2018</b> , 22, 1-17	1.3	10
65	Strength and mobilization training within the first week following total hip arthroplasty. <i>Journal of Bodywork and Movement Therapies</i> , <b>2018</b> , 22, 519-527	1.6	11
64	What is the Best Way to Train to Become a Star Endurance Athlete?. <i>Frontiers for Young Minds</i> , <b>2018</b> , 6,	1.5	1
63	Developments in the Biomechanics and Equipment of Olympic Cross-Country Skiers. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 976	4.6	12
62	Impact of Incline, Sex and Level of Performance on Kinematics During a Distance Race in Classical Cross-Country Skiing. <i>Journal of Sports Science and Medicine</i> , <b>2018</b> , 17, 124-133	2.7	18
61	Physiological Comparisons of Elite Male Visma Ski Classics and National Level Cross-Country Skiers During Uphill Treadmill Roller Skiing. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1523	4.6	8
60	Acute Effects of an Ergometer-Based Dryland Alpine Skiing Specific High Intensity Interval Training. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1485	4.6	2
59	Pacing and predictors of performance during cross-country skiing races: A systematic review. <i>Journal of Sport and Health Science</i> , <b>2018</b> , 7, 381-393	8.2	16
58	An entropy approach for evaluating adaptive motor learning processes while walking with unstable footwear. <i>Human Movement Science</i> , <b>2018</b> , 60, 48-56	2.4	1
57	Validation of Moticon <sup>®</sup> OpenGo sensor insoles during gait, jumps, balance and cross-country skiing specific imitation movements. <i>Journal of Sports Sciences</i> , <b>2017</b> , 35, 196-206	3.6	57
56	Grade and speed have greater influence on HR and RPE than ability, sex, and age in alpine skiing. <i>Journal of Sports Sciences</i> , <b>2017</b> , 35, 419-425	3.6	2
55	Alpine Skiing as Winter-Time High-Intensity Training. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 1859-1867	1.2	5
54	Effect of Dry Needling on Thigh Muscle Strength and Hip Flexion in Elite Soccer Players. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 378-383	1.2	21
53	Effects of a structured midsole on spatio-temporal variables and running economy in overground running. <i>European Journal of Sport Science</i> , <b>2017</b> , 17, 303-309	3.9	7
52	Near-Infrared Spectroscopy: More Accurate Than Heart Rate for Monitoring Intensity in Running in Hilly Terrain. <i>International Journal of Sports Physiology and Performance</i> , <b>2017</b> , 12, 440-447	3.5	28
51	Factors that Influence the Performance of Elite Sprint Cross-Country Skiers. <i>Sports Medicine</i> , <b>2017</b> , 47, 319-342	10.6	23
50	High Intensity Interval Training Leads to Greater Improvements in Acute Heart Rate Recovery and Anaerobic Power as High Volume Low Intensity Training. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 562	4.6	23
49	Motion Analysis of the Cross Country Ski Race using Kinematic GNSS. <i>The Proceedings of the Symposium on Sports and Human Dynamics</i> , <b>2017</b> , 2017, C-2	0	1

48	Effects of a leaf spring structured midsole on joint mechanics and lower limb muscle forces in running. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172287	3.7	5
47	The pacing strategy and technique of male cross-country skiers with different levels of performance during a 15-km classical race. <i>PLoS ONE</i> , <b>2017</b> , 12, e0187111	3.7	27
46	Do Maximal Roller Skiing Speed and Double Poling Performance Predict Youth Cross-Country Skiing Performance?. <i>Journal of Sports Science and Medicine</i> , <b>2017</b> , 16, 383-390	2.7	3
45	Double-Poling Biomechanics of Elite Cross-country Skiers: Flat versus Uphill Terrain. <i>Medicine and Science in Sports and Exercise</i> , <b>2016</b> , 48, 1580-9	1.2	44
44	Usage and validation of a tracking system to monitor position and velocity during cross-country skiing. <i>International Journal of Performance Analysis in Sport</i> , <b>2016</b> , 16, 769-785	1.8	5
43	Effektivität eines zusätzlichen Bungsprogramms in der ersten postoperativen Woche nach Implantation einer Hüfttotalendoprothese nach der OCM-Methode (modifizierter anterior-lateraler Zugangsweg). <i>Physioscience</i> , <b>2016</b> , 12, 47-54	0.3	1
42	Effects of skiing on cardiorespiratory and metabolic responses in middle-aged subjects with increased cardiovascular risk. <i>International Journal of Cardiology</i> , <b>2016</b> , 203, 618-20	3.2	7
41	A Comparison between Alpine Skiing, Cross-Country Skiing and Indoor Cycling on Cardiorespiratory and Metabolic Response. <i>Journal of Sports Science and Medicine</i> , <b>2016</b> , 15, 184-95	2.7	8
40	Biomechanics of Marathon Running <b>2016</b> , 13-45		3
39	The effects of prior high intensity double poling on subsequent diagonal stride skiing characteristics. <i>SpringerPlus</i> , <b>2015</b> , 4, 40		16
38	Three-dimensional Force and Kinematic Interactions in V1 Skating at High Speeds. <i>Medicine and Science in Sports and Exercise</i> , <b>2015</b> , 47, 1232-42	1.2	10
37	Alpine Skiing With total knee ArthroPlasty (ASWAP): symmetric loading during skiing. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25 Suppl 2, 60-6	4.6	4
36	The Foam Roll as a Tool to Improve Hamstring Flexibility. <i>Journal of Strength and Conditioning Research</i> , <b>2015</b> , 29, 3480-5	3.2	48
35	Alpine Skiing With total knee ArthroPlasty (ASWAP): effects on gait asymmetries. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25 Suppl 2, 49-59	4.6	7
34	The training intensity distribution among well-trained and elite endurance athletes. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 295	4.6	100
33	Effect of carrying a rifle on physiology and biomechanical responses in biathletes. <i>Medicine and Science in Sports and Exercise</i> , <b>2015</b> , 47, 617-24	1.2	16
32	Motor abilities and anthropometrics in youth cross-country skiing. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2015</b> , 25, e70-81	4.6	7
31	Repeated high intensity bouts with long recovery: are bicarbonate or carbohydrate supplements an option?. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 145747	2.2	5

30	Automatic classification of the sub-techniques (gears) used in cross-country ski skating employing a mobile phone. <i>Sensors</i> , <b>2014</b> , 14, 20589-601	3.8	26
29	Polarized training has greater impact on key endurance variables than threshold, high intensity, or high volume training. <i>Frontiers in Physiology</i> , <b>2014</b> , 5, 33	4.6	96
28	Biomechanical analysis of the herringbone technique as employed by elite cross-country skiers. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2014</b> , 24, 542-52	4.6	13
27	The effect of 16-week plyometric training on explosive actions in early to mid-puberty elite soccer players. <i>Journal of Strength and Conditioning Research</i> , <b>2014</b> , 28, 2105-14	3.2	47
26	Biomechanical determinants of oxygen extraction during cross-country skiing. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2013</b> , 23, e9-20	4.6	25
25	Effects of 4-week slackline training on lower limb joint motion and muscle activation. <i>Journal of Science and Medicine in Sport</i> , <b>2013</b> , 16, 562-6	4.4	28
24	Effect of instability training equipment on lower limb kinematics and muscle activity. <i>Sportverletzung-Sportschaden</i> , <b>2013</b> , 27, 28-33	1.7	7
23	Mechanical behaviour of cross-country ski racing poles during double poling. <i>Sports Biomechanics</i> , <b>2013</b> , 12, 365-80	2.2	6
22	Biomechanical characteristics and speed adaptation during kick double poling on roller skis in elite cross-country skiers. <i>Sports Biomechanics</i> , <b>2013</b> , 12, 154-74	2.2	21
21	Do anthropometrics, biomechanics, and laterality explain V1 side preference in skiers?. <i>Medicine and Science in Sports and Exercise</i> , <b>2013</b> , 45, 1569-76	1.2	7
20	Magnitude and variation in muscle activity and kinematics during walking before and after a 10-week adaptation period using unstable (MBT) shoes. <i>Footwear Science</i> , <b>2012</b> , 4, 131-143	1.4	8
19	Differences in ball speed and accuracy of tennis groundstrokes between elite and high-performance players. <i>European Journal of Sport Science</i> , <b>2012</b> , 12, 301-308	3.9	33
18	General strength and kinetics: fundamental to sprinting faster in cross country skiing?. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2011</b> , 21, 791-803	4.6	63
17	Force interaction and 3D pole movement in double poling. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2011</b> , 21, e393-404	4.6	55
16	Kinematic differences of elite and high-performance tennis players in the cross court and down the line forehand. <i>Sports Biomechanics</i> , <b>2010</b> , 9, 280-95	2.2	31
15	Relationships between body composition, body dimensions, and peak speed in cross-country sprint skiing. <i>Journal of Sports Sciences</i> , <b>2010</b> , 28, 161-9	3.6	47
14	Short and long term adaptation of variability during walking using unstable (Mbt) shoes. <i>Clinical Biomechanics</i> , <b>2010</b> , 25, 816-22	2.2	61
13	Biomechanically influenced differences in O <sub>2</sub> extraction in diagonal skiing: arm versus leg. <i>Medicine and Science in Sports and Exercise</i> , <b>2010</b> , 42, 1899-908	1.2	28

12	Double-push skating versus V2 and V1 skating on uphill terrain in cross-country skiing. <i>Medicine and Science in Sports and Exercise</i> , <b>2010</b> , 42, 187-96	1.2	28
11	Analysis of sprint cross-country skiing using a differential global navigation satellite system. <i>European Journal of Applied Physiology</i> , <b>2010</b> , 110, 585-95	3.4	114
10	Biomechanical pole and leg characteristics during uphill diagonal roller skiing. <i>Sports Biomechanics</i> , <b>2009</b> , 8, 318-33	2.2	34
9	Kinematic determinants and physiological response of cross-country skiing at maximal speed. <i>Medicine and Science in Sports and Exercise</i> , <b>2009</b> , 41, 1476-87	1.2	50
8	Control of speed during the double poling technique performed by elite cross-country skiers. <i>Medicine and Science in Sports and Exercise</i> , <b>2009</b> , 41, 210-20	1.2	67
7	Biomechanical comparison of the double-push technique and the conventional skate skiing technique in cross-country sprint skiing. <i>Journal of Sports Sciences</i> , <b>2008</b> , 26, 1225-33	3.6	39
6	Evaluation of an upper-body strength test for the cross-country skiing sprint. <i>Medicine and Science in Sports and Exercise</i> , <b>2007</b> , 39, 1160-9	1.2	38
5	Analysis of a simulated sprint competition in classical cross country skiing. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2007</b> , 17, 362-72	4.6	67
4	Biomechanical validation of a specific upper body training and testing drill in cross-country skiing. <i>Sports Biomechanics</i> , <b>2006</b> , 5, 23-46	2.2	16
3	Contribution of the legs to double-poling performance in elite cross-country skiers. <i>Medicine and Science in Sports and Exercise</i> , <b>2006</b> , 38, 1853-60	1.2	81
2	Reliability and validity of test concepts for the cross-country skiing sprint. <i>Medicine and Science in Sports and Exercise</i> , <b>2006</b> , 38, 586-91	1.2	32
1	Biomechanical analysis of double poling in elite cross-country skiers. <i>Medicine and Science in Sports and Exercise</i> , <b>2005</b> , 37, 807-18	1.2	204