

# Jörg Spärrri

## List of Publications by Year in descending order

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Version: 2024-02-01

83  
papers

1,911  
citations

236925

25  
h-index

315739

38  
g-index

85  
all docs

85  
docs citations

85  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning Monocular 3D Human Pose Estimation from Multi-view Images. , 2018, , .		155
2	Impact of Potential Physiological Changes due to COVID-19 Home Confinement on Athlete Health Protection in Elite Sports: a Call for Awareness in Sports Programming. Sports Medicine, 2020, 50, 1417-1419.	6.5	120
3	How to Prevent Injuries in Alpine Ski Racing: What Do We Know and Where Do We Go from Here?. Sports Medicine, 2017, 47, 599-614.	6.5	79
4	Determination of External Forces in Alpine Skiing Using a Differential Global Navigation Satellite System. Sensors, 2013, 13, 9821-9835.	3.8	74
5	Perceived key injury risk factors in World Cup alpine ski racing”an explorative qualitative study with expert stakeholders. British Journal of Sports Medicine, 2012, 46, 1059-1064.	6.7	71
6	Mechanics of turning and jumping and skier speed are associated with injury risk in men's World Cup alpine skiing: a comparison between the competition disciplines. British Journal of Sports Medicine, 2014, 48, 742-747.	6.7	70
7	Ultrasound-derived Biceps Femoris Long Head Fascicle Length: Extrapolation Pitfalls. Medicine and Science in Sports and Exercise, 2020, 52, 233-243.	0.4	69
8	Course setting and selected biomechanical variables related to injury risk in alpine ski racing: an explorative case study. British Journal of Sports Medicine, 2012, 46, 1072-1077.	6.7	59
9	Joint Inertial Sensor Orientation Drift Reduction for Highly Dynamic Movements. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 77-86.	6.3	58
10	Potential Mechanisms Leading to Overuse Injuries of the Back in Alpine Ski Racing. American Journal of Sports Medicine, 2015, 43, 2042-2048.	4.2	55
11	The Effect of Different Global Navigation Satellite System Methods on Positioning Accuracy in Elite Alpine Skiing. Sensors, 2014, 14, 18433-18453.	3.8	54
12	Turn Characteristics of a Top World Class Athlete in Giant Slalom: A Case Study Assessing Current Performance Prediction Concepts. International Journal of Sports Science and Coaching, 2012, 7, 647-659.	1.4	53
13	Three-Dimensional Body and Centre of Mass Kinematics in Alpine Ski Racing Using Differential GNSS and Inertial Sensors. Remote Sensing, 2016, 8, 671.	4.0	49
14	Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. PLoS ONE, 2017, 12, e0181446.	2.5	48
15	Characterization of Course and Terrain and Their Effect on Skier Speed in World Cup Alpine Ski Racing. PLoS ONE, 2015, 10, e0118119.	2.5	45
16	Implementing Ultrasound Imaging for the Assessment of Muscle and Tendon Properties in Elite Sports: Practical Aspects, Methodological Considerations and Future Directions. Sports Medicine, 2021, 51, 1151-1170.	6.5	44
17	The Use of Body Worn Sensors for Detecting the Vibrations Acting on the Lower Back in Alpine Ski Racing. Frontiers in Physiology, 2017, 8, 522.	2.8	42
18	Application of dGNSS in Alpine Ski Racing: Basis for Evaluating Physical Demands and Safety. Frontiers in Physiology, 2018, 9, 145.	2.8	41

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19	Determination of the centre of mass kinematics in alpine skiing using differential global navigation satellite systems. <i>Journal of Sports Sciences</i> , 2015, 33, 960-969.	2.0	40
20	An Inertial Sensor-Based Method for Estimating the Athlete's Relative Joint Center Positions and Center of Mass Kinematics in Alpine Ski Racing. <i>Frontiers in Physiology</i> , 2017, 8, 850.	2.8	39
21	Sidecut radius and the mechanics of turning equipment designed to reduce risk of severe traumatic knee injuries in alpine giant slalom ski racing. <i>British Journal of Sports Medicine</i> , 2016, 50, 14-19.	6.7	36
22	Athlete health protection: Why qualitative research matters. <i>Journal of Science and Medicine in Sport</i> , 2020, 23, 898-901.	1.3	36
23	Effect of ski geometry on aggressive ski behaviour and visual aesthetics: equipment designed to reduce risk of severe traumatic knee injuries in alpine giant slalom ski racing. <i>British Journal of Sports Medicine</i> , 2016, 50, 20-25.	6.7	33
24	Course Setting as a Prevention Measure for Overuse Injuries of the Back in Alpine Ski Racing. <i>Orthopaedic Journal of Sports Medicine</i> , 2016, 4, 232596711663071.	1.7	32
25	Effect of ski geometry and standing height on kinetic energy: equipment designed to reduce risk of severe traumatic injuries in alpine downhill ski racing. <i>British Journal of Sports Medicine</i> , 2016, 50, 8-13.	6.7	31
26	Collecting Kinematic Data on a Ski Track with Optoelectronic Stereophotogrammetry: A Methodological Study Assessing the Feasibility of Bringing the Biomechanics Lab to the Field. <i>PLoS ONE</i> , 2016, 11, e0161757.	2.5	27
27	Sidecut radius and kinetic energy: equipment designed to reduce risk of severe traumatic knee injuries in alpine giant slalom ski racing. <i>British Journal of Sports Medicine</i> , 2016, 50, 26-31.	6.7	25
28	Injury risks among elite competitive alpine skiers are underestimated if not registered prospectively, over the entire season and regardless of whether requiring medical attention. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 1635-1643.	4.2	24
29	Equipment designed to reduce risk of severe traumatic injuries in alpine ski racing: constructive collaboration between the International Ski Federation, industry and science. <i>British Journal of Sports Medicine</i> , 2016, 50, 1.2-2.	6.7	21
30	Panoramic ultrasound vs. MRI for the assessment of hamstrings cross-sectional area and volume in a large athletic cohort. <i>Scientific Reports</i> , 2020, 10, 14144.	3.3	21
31	Health problems in youth competitive alpine skiing: A 12-month observation of 155 athletes around the growth spurt. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1758-1768.	2.9	20
32	The role of path length and speed-related factors for the enhancement of section performance in alpine giant slalom. <i>European Journal of Sport Science</i> , 2018, 18, 911-919.	2.7	19
33	A New Training Assessment Method for Alpine Ski Racing: Estimating Center of Mass Trajectory by Fusing Inertial Sensors With Periodically Available Position Anchor Points. <i>Frontiers in Physiology</i> , 2018, 9, 1203.	2.8	17
34	Maximal Eccentric Hamstrings Strength in Competitive Alpine Skiers: Cross-Sectional Observations From Youth to Elite Level. <i>Frontiers in Physiology</i> , 2019, 10, 88.	2.8	17
35	Standing Height as a Prevention Measure for Overuse Injuries of the Back in Alpine Ski Racing: A Kinematic and Kinetic Study of Giant Slalom. <i>Orthopaedic Journal of Sports Medicine</i> , 2018, 6, 232596711774784.	1.7	15
36	Dynamic knee valgus in competitive alpine skiers: Observation from youth to elite and influence of biological maturation. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1212-1220.	2.9	14

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37	Are Existing Monocular Computer Vision-Based 3D Motion Capture Approaches Ready for Deployment? A Methodological Study on the Example of Alpine Skiing. <i>Sensors</i> , 2019, 19, 4323.	3.8	13
38	High Rates of Overuse-Related Structural Abnormalities in the Lumbar Spine of Youth Competitive Alpine Skiers: A Cross-sectional MRI Study in 108 Athletes. <i>Orthopaedic Journal of Sports Medicine</i> , 2020, 8, 232596712092255.	1.7	12
39	Preventing injuries in alpine skiing giant slalom by shortening the vertical distance between the gates rather than increasing the horizontal gate offset to control speed. <i>British Journal of Sports Medicine</i> , 2020, 54, 1042-1046.	6.7	12
40	Motion Capture from Pan-Tilt Cameras with Unknown Orientation. , 2019, , .		11
41	Remarkably high prevalence of overuse-related knee complaints and MRI abnormalities in youth competitive alpine skiers: a descriptive investigation in 108 athletes aged 13â€“15 years. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000738.	2.9	10
42	Methodological and Practical Considerations Associated With Assessment of Alpine Skiing Performance Using Global Navigation Satellite Systems. <i>Frontiers in Sports and Active Living</i> , 2019, 1, 74.	1.8	10
43	A Magnet-Based Timing System to Detect Gate Crossings in Alpine Ski Racing. <i>Sensors</i> , 2019, 19, 940.	3.8	9
44	Cartilage abnormalities and osteophytes in the fingers of elite sport climbers: An ultrasonographyâ€“based crossâ€“sectional study. <i>European Journal of Sport Science</i> , 2020, 20, 269-276.	2.7	9
45	Screening Tests for Assessing Athletes at Risk of ACL Injury or Reinjuryâ€”A Scoping Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2864.	2.6	9
46	How can we prove that a preventive measure in elite sport is effective when the prevalence of the injury (eg, ACL tear in alpine ski racing) is low? A case for surrogate outcomes. <i>British Journal of Sports Medicine</i> , 2017, 51, 1644-1645.	6.7	8
47	Biomechanical quantification of deadbug bridging performance in competitive alpine skiers: Reliability, reference values, and associations with skiing performance and back overuse complaints. <i>Physical Therapy in Sport</i> , 2020, 45, 56-62.	1.9	8
48	Overuse injuries in the knee, back and hip of top elite female alpine skiers during the off-season preparation period: prevalence, severity and their association with traumatic preinjuries and training load. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000892.	2.9	8
49	Reducing the back overuse-related risks in alpine ski racing: letâ€™s put research into sports practice. <i>British Journal of Sports Medicine</i> , 2019, 53, 2-3.	6.7	7
50	Distal Femoral Cortical Irregularity at Knee MRI: Increased Prevalence in Youth Competitive Alpine Skiers. <i>Radiology</i> , 2020, 296, 411-419.	7.3	7
51	Three-Dimensional Mapping of Shear Wave Velocity in Human Tendon: A Proof of Concept Study. <i>Sensors</i> , 2021, 21, 1655.	3.8	7
52	Injury prevention in Super-G alpine ski racing through course design. <i>Scientific Reports</i> , 2021, 11, 3637.	3.3	7
53	Editorial: Health and Performance Assessment in Winter Sports. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 628574.	1.8	7
54	Thigh muscle activation patterns and dynamic knee valgus at peak ground reaction force during drop jump landings: Reliability, youth competitive alpine skiing-specific reference values and relation to knee overuse complaints. <i>Journal of Science and Medicine in Sport</i> , 2021, 24, 1230-1234.	1.3	6

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55	Prevalence and Risk Factors of Psychiatric Symptoms among Swiss Elite Athletes during the First Lockdown of the COVID-19 Pandemic. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 10780.	2.6	6
56	“When you're down, stay down”: A lesson for all competitive alpine skiers supported by an ACL rupture measured in vivo. <i>Journal of Sport and Health Science</i> , 2022, 11, 14-20.	6.5	6
57	Patellar Tendon Shear Wave Velocity Is Higher and has Different Regional Patterns in Elite Competitive Alpine Skiers than in Healthy Controls. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	6
58	Verletzungsprävention innerhalb eines internationalen Sportverbandes – Eine Prozessbeschreibung am Beispiel des alpinen Skirennsports. <i>Sports Orthopaedics and Traumatology</i> , 2013, 29, 288-296.	0.1	5
59	Lower Back Complaints in Adolescent Competitive Alpine Skiers: A Cross-Sectional Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7408.	2.5	5
60	A Cross-Sectional Observation on Maximal Eccentric Hamstring Strength in 7- to 15-Year-Old Competitive Alpine Skiers. <i>Biology</i> , 2021, 10, 1128.	2.8	5
61	The ISPAInt Injury Prevention Programme for Youth Competitive Alpine Skiers: A Controlled 12-Month Experimental Study in a Real-World Training Setting. <i>Frontiers in Physiology</i> , 2022, 13, 826212.	2.8	5
62	Training Patterns and Mental Health of Bodybuilders and Fitness Athletes During the First Lockdown of the COVID-19 Pandemic – A Cross-Sectional Study. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 867140.	1.8	5
63	Perceptions of experts on key injury risk factors in alpine ski racing as a function of stakeholder role and associated level of competition. <i>BMJ Open Sport and Exercise Medicine</i> , 2021, 7, e001111.	2.9	4
64	Long term evolution of soft tissue response in the fingers of high-level sport climbers: A cross-sectional 10-Year follow-up study. <i>Physical Therapy in Sport</i> , 2021, 52, 173-179.	1.9	4
65	Self-Supervised Human Detection and Segmentation via Background Inpainting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 9574-9588.	13.9	4
66	Ski racers’ understanding of sports-related concussion and its management: are contemporary findings and clinical recommendations reaching the target audience, the racers themselves?. <i>British Journal of Sports Medicine</i> , 2020, 54, 1017-1018.	6.7	3
67	COVID-19 Lockdown 2020 Changed Patterns of Alcohol and Cannabis Use in Swiss Elite Athletes and Bodybuilders: Results From an Online Survey. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 759335.	1.8	3
68	Deadbug Bridging Performance in 6- to 15-Year-Old Competitive Alpine Skiers – A Cross-Sectional Study. <i>Biology</i> , 2022, 11, 329.	2.8	3
69	Real-Time Monitoring of Metabolism during Exercise by Exhaled Breath. <i>Metabolites</i> , 2021, 11, 856.	2.9	3
70	Altered regional 3D shear wave velocity patterns in youth competitive alpine skiers suffering from patellar tendon complaints – a prospective case-control study. <i>European Journal of Sport Science</i> , 2023, 23, 1068-1076.	2.7	3
71	Long-term evolution of cartilage abnormalities and osteophytes in the fingers of elite sport climbers: A cross-sectional 10-year follow-up study. <i>European Journal of Sport Science</i> , 2022, 22, 1452-1458.	2.7	2
72	Fact sheet: Sport psychiatric and psychotherapeutic aspects in competitive sports in times of the COVID 19 pandemic. <i>Deutsche Zeitschrift Fur Sportmedizin</i> , 2020, 71, E1-E2.	0.5	2

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73	Medial Malleolar Bursitis in an Elite Competitive Alpine Skier: A Case Report. Current Sports Medicine Reports, 2020, 19, 399-401.	1.2	2
74	Human Detection and Segmentation via Multi-view Consensus. , 2021, , .		2
75	Prospective Study on Dynamic Postural Stability in Youth Competitive Alpine Skiers: Test-Retest Reliability and Reference Values as a Function of Sex, Age and Biological Maturation. Frontiers in Physiology, 2022, 13, 804165.	2.8	2
76	Mental health in competitive sports in times of COVID-19. Sport and Exercise Medicine Switzerland Journal, 2020, , .	0.0	1
77	Cortical Bone Thickness, Base Osteophyte Occurrence and Radiological Signs of Osteoarthritis in the Fingers of Male Elite Sport Climbers: A Cross-Sectional 10-Year Follow-Up Study. Frontiers in Physiology, 2022, 13, .	2.8	1
78	Special Issue on "Sports Performance and Health". Applied Sciences (Switzerland), 2021, 11, 2755.	2.5	0
79	Unilateral Maximal Isometric Hex Bar Pull Test: Within-Session Reliability and Lower Body Force Production in Male and Female Freeski Athletes. Frontiers in Sports and Active Living, 2021, 3, 715833.	1.8	0
80	Psyche and sport in times of COVID-19. Deutsche Zeitschrift Fur Sportmedizin, 2020, 71, E1-E2.	0.5	0
81	Leistungssport und Schwangerschaft "aktuelle Empfehlungen und 1/4te der aktuellen Evidenzlage. Sport and Exercise Medicine Switzerland Journal, 2020, , .	0.0	0
82	Exercise metabolism: the key to performance. , 2021, , .		0
83	Nonoperative Treatment of Finger Flexor Tenosynovitis in Sport Climbers" A Retrospective Descriptive Study Based on a Clinical 10-Year Database. Biology, 2022, 11, 815.	2.8	0