

Jörg Spärrri

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,911
citations

236612

25
h-index

315357

38
g-index

85
all docs

85
docs citations

85
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	3
2	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.	1.4	2
3	–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.	3.3	6
4	Self-Supervised Human Detection and Segmentation via Background Inpainting. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2022, 44, 9574-9588.	9.7	4
5	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.	1.3	5
6	Deadbug Bridging Performance in 6- to 15-Year-Old Competitive Alpine Skiers – A Cross-Sectional Study. <i>Biology</i> , 2022, 11, 329.	1.3	3
7	Screening Tests for Assessing Athletes at Risk of ACL Injury or Reinjury – A Scoping Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2864.	1.2	9
8	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. <i>Frontiers in Physiology</i> , 2022, 13, 804165.	1.3	2
9	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.	0.9	5
10	Nonoperative Treatment of Finger Flexor Tenosynovitis in Sport Climbers – A Retrospective Descriptive Study Based on a Clinical 10-Year Database. <i>Biology</i> , 2022, 11, 815.	1.3	0
11	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. <i>Frontiers in Physiology</i> , 2022, 13, .	1.3	1
12	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.	2.3	24
13	Three-Dimensional Mapping of Shear Wave Velocity in Human Tendon: A Proof of Concept Study. <i>Sensors</i> , 2021, 21, 1655.	2.1	7
14	Injury prevention in Super-G alpine ski racing through course design. <i>Scientific Reports</i> , 2021, 11, 3637.	1.6	7
15	Special Issue on –Sports Performance and Health–, <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2755.	1.3	0
16	Implementing Ultrasound Imaging for the Assessment of Muscle and Tendon Properties in Elite Sports: Practical Aspects, Methodological Considerations and Future Directions. <i>Sports Medicine</i> , 2021, 51, 1151-1170.	3.1	44
17	Editorial: Health and Performance Assessment in Winter Sports. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 628574.	0.9	7
18	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.	0.6	6

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19	Unilateral Maximal Isometric Hex Bar Pull Test: Within-Session Reliability and Lower Body Force Production in Male and Female Freeski Athletes. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 715833.	0.9	0
20	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.	1.4	4
21	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.	0.8	4
22	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.	1.2	6
23	A Cross-Sectional Observation on Maximal Eccentric Hamstring Strength in 7- to 15-Year-Old Competitive Alpine Skiers. <i>Biology</i> , 2021, 10, 1128.	1.3	5
24	Exercise metabolism: the key to performance. , 2021, , .		0
25	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.	0.9	3
26	Human Detection and Segmentation via Multi-view Consensus. , 2021, , .		2
27	Real-Time Monitoring of Metabolism during Exercise by Exhaled Breath. <i>Metabolites</i> , 2021, 11, 856.	1.3	3
28	Cartilage abnormalities and osteophytes in the fingers of elite sport climbers: An ultrasonography-based cross-sectional study. <i>European Journal of Sport Science</i> , 2020, 20, 269-276.	1.4	9
29	Ultrasound-derived Biceps Femoris Long Head Fascicle Length: Extrapolation Pitfalls. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 233-243.	0.2	69
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.	1.6	21
31	Lower Back Complaints in Adolescent Competitive Alpine Skiers: A Cross-Sectional Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7408.	1.3	5
32	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. <i>Sports Medicine</i> , 2020, 50, 1417-1419.	3.1	120
33	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.	1.3	20
34	Distal Femoral Cortical Irregularity at Knee MRI: Increased Prevalence in Youth Competitive Alpine Skiers. <i>Radiology</i> , 2020, 296, 411-419.	3.6	7
35	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.	0.8	12
36	Remarkably high prevalence of overuse-related knee complaints and MRI abnormalities in youth competitive alpine skiers: a descriptive investigation in 108 athletes aged 13-15 years. <i>BMJ Open Sport and Exercise Medicine</i> , 2020, 6, e000738.	1.4	10

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37	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.	1.3	14
38	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.	0.8	8
39	Athlete health protection: Why qualitative research matters. <i>Journal of Science and Medicine in Sport</i> , 2020, 23, 898-901.	0.6	36
40	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.	3.1	12
41	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.	3.1	3
42	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.	1.4	8
43	Psyche and sport in times of COVID-19. <i>Deutsche Zeitschrift Fur Sportmedizin</i> , 2020, 71, E1-E2.	0.2	0
44	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.	0.2	2
45	Medial Malleolar Bursitis in an Elite Competitive Alpine Skier: A Case Report. <i>Current Sports Medicine Reports</i> , 2020, 19, 399-401.	0.5	2
46	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.	2.1	13
47	Maximal Eccentric Hamstrings Strength in Competitive Alpine Skiers: Cross-Sectional Observations From Youth to Elite Level. <i>Frontiers in Physiology</i> , 2019, 10, 88.	1.3	17
48	A Magnet-Based Timing System to Detect Gate Crossings in Alpine Ski Racing. <i>Sensors</i> , 2019, 19, 940.	2.1	9
49	Motion Capture from Pan-Tilt Cameras with Unknown Orientation. , 2019, , .		11
50	Reducing the back overuse-related risks in alpine ski racing: let's put research into sports practice. <i>British Journal of Sports Medicine</i> , 2019, 53, 2-3.	3.1	7
51	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.	0.9	10
52	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.	0.8	15
53	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.	1.4	19
54	Joint Inertial Sensor Orientation Drift Reduction for Highly Dynamic Movements. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 77-86.	3.9	58

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55	Learning Monocular 3D Human Pose Estimation from Multi-view Images. , 2018, , .		155
56	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.	1.3	17
57	Application of dGNSS in Alpine Ski Racing: Basis for Evaluating Physical Demands and Safety. <i>Frontiers in Physiology</i> , 2018, 9, 145.	1.3	41
58	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.	3.1	8
59	How to Prevent Injuries in Alpine Ski Racing: What Do We Know and Where Do We Go from Here?. <i>Sports Medicine</i> , 2017, 47, 599-614.	3.1	79
60	The Use of Body Worn Sensors for Detecting the Vibrations Acting on the Lower Back in Alpine Ski Racing. <i>Frontiers in Physiology</i> , 2017, 8, 522.	1.3	42
61	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.	1.3	39
62	Validation of functional calibration and strap-down joint drift correction for computing 3D joint angles of knee, hip, and trunk in alpine skiing. <i>PLoS ONE</i> , 2017, 12, e0181446.	1.1	48
63	Three-Dimensional Body and Centre of Mass Kinematics in Alpine Ski Racing Using Differential GNSS and Inertial Sensors. <i>Remote Sensing</i> , 2016, 8, 671.	1.8	49
64	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.	3.1	25
65	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.	3.1	33
66	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.	3.1	21
67	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.	0.8	32
68	Sidecut radius and the mechanics of turningâ€”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.	3.1	36
69	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.	3.1	31
70	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.	1.1	27
71	Characterization of Course and Terrain and Their Effect on Skier Speed in World Cup Alpine Ski Racing. <i>PLoS ONE</i> , 2015, 10, e0118119.	1.1	45
72	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.	1.0	40

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73	Potential Mechanisms Leading to Overuse Injuries of the Back in Alpine Ski Racing. American Journal of Sports Medicine, 2015, 43, 2042-2048.	1.9	55
74	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.	3.1	70
75	The Effect of Different Global Navigation Satellite System Methods on Positioning Accuracy in Elite Alpine Skiing. Sensors, 2014, 14, 18433-18453.	2.1	54
76	Verletzungsprävention innerhalb eines internationalen Sportverbandes – Eine Prozessbeschreibung am Beispiel des alpinen Skirennsports. Sports Orthopaedics and Traumatology, 2013, 29, 288-296.	0.1	5
77	Determination of External Forces in Alpine Skiing Using a Differential Global Navigation Satellite System. Sensors, 2013, 13, 9821-9835.	2.1	74
78	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.	3.1	71
79	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.	0.7	53
80	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.	3.1	59
81	Patellar Tendon Shear Wave Velocity Is Higher and has Different Regional Patterns in Elite Competitive Alpine Skiers than in Healthy Controls. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	6