Martin Burtscher

List of Publications by Citations

286 papers	4,745 citations	38 h-index	54 g-index
326 ext. papers	5,992 ext. citations	5.1 avg, IF	6.11 L-index

#	Paper	IF	Citations
286	Similar qualitative and quantitative changes of mitochondrial respiration following strength and endurance training in normoxia and hypoxia in sedentary humans. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2011**, 301, R1078-87	3.2	116
285	Injuries in judo: a systematic literature review including suggestions for prevention. *British Journal of Sports Medicine*, **2013**, 47, 1139-43	10.3	109
284	Prediction of susceptibility to acute mountain sickness by SaO2 values during short-term exposure to hypoxia. *High Altitude Medicine and Biology*, **2004**, 5, 335-40	1.9	103
283	Effects of modern ski equipment on the overall injury rate and the pattern of injury location in Alpine skiing. *American Journal of Therapeutics*, **2008**, 18, 355-7	1	102
282	Hypoxia induced downregulation of hepcidin is mediated by platelet derived growth factor BB. *Gut*, **2014**, 63, 1951-9	19.2	101
281	Intermittent hypoxia increases exercise tolerance in elderly men with and without coronary artery disease. *International Journal of Cardiology*, **2004**, 96, 247-54	3.2	99
280	Sudden cardiac death during mountain hiking and downhill skiing. *New England Journal of Medicine*, **1993**, 329, 1738-9	59.2	82
279	(Indoor) isolation, stress, and physical inactivity: Vicious circles accelerated by COVID-19?. *Scandinavian Journal of Medicine and Science in Sports*, **2020**, 30, 1544-1545	4.6	79
278	Sport injuries and illnesses during the first Winter Youth Olympic Games 2012 in Innsbruck, Austria. *British Journal of Sports Medicine*, **2012**, 46, 1030-7	10.3	67
277	Hypoxia-related altitude illnesses. *Journal of Travel Medicine*, **2013**, 20, 247-55	12.9	66
276	The risk of cardiovascular events during leisure time activities at altitude. *Progress in Cardiovascular Diseases*, **2010**, 52, 507-11	8.5	66
275	Aspirin for prophylaxis against headache at high altitudes: randomised, double blind, placebo controlled trial. *BMJ: British Medical Journal*, **1998**, 316, 1057-8		64
274	The effects of caffeine, nicotine, ethanol, and tetrahydrocannabinol on exercise performance. *Nutrition and Metabolism*, **2013**, 10, 71	4.6	62
273	Probiotic Supplements Beneficially Affect Tryptophan-Kynurenine Metabolism and Reduce the Incidence of Upper Respiratory Tract Infections in Trained Athletes: A Randomized, Double-Blinded, Placebo-Controlled Trial. *Nutrients*, **2016**, 8,	6.7	60
272	Hypoxia, Oxidative Stress and Fat. *Biomolecules*, **2015**, 5, 1143-50	5.9	59
271	Factors associated with self-reported risk-taking behaviour on ski slopes. *British Journal of Sports Medicine*, **2010**, 44, 204-6	10.3	59
270	Effects of Exhaustive Aerobic Exercise on Tryptophan-Kynurenine Metabolism in Trained Athletes. *PLoS ONE*, **2016**, 11, e0153617	3.7	59

269	Bioimpedance and impedance vector patterns as predictors of league level in male soccer players. *International Journal of Sports Physiology and Performance*, **2014**, 9, 532-9	3.5	58
268	Leg dominance is a risk factor for noncontact anterior cruciate ligament injuries in female recreational skiers. *American Journal of Sports Medicine*, **2012**, 40, 1269-73	6.8	58
267	Are oral contraceptive use and menstrual cycle phase related to anterior cruciate ligament injury risk in female recreational skiers?. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2009**, 17, 1065-9	5.5	56
266	Effects of living at higher altitudes on mortality: a narrative review **2014**, 5, 274-80		55
265	Cardiopulmonary and metabolic responses in healthy elderly humans during a 1-week hiking programme at high altitude. *European Journal of Applied Physiology*, **2001**, 84, 379-86	3.4	55
264	Climbing-specific finger flexor performance and forearm muscle oxygenation in elite male and female sport climbers. *European Journal of Applied Physiology*, **2012**, 112, 2839-47	3.4	54
263	Self reported risk taking and risk compensation in skiers and snowboarders are associated with sensation seeking. *Accident Analysis and Prevention*, **2012**, 48, 292-6	6.1	53
262	Interval hypoxic training improves autonomic cardiovascular and respiratory control in patients with mild chronic obstructive pulmonary disease. *Journal of Hypertension*, **2009**, 27, 1648-54	1.9	51
261	Prevalence of acute mountain sickness in the Eastern Alps. *High Altitude Medicine and Biology*, **2009** , 10, 239-45	1.9	50
260	Intermittent hypoxia increases exercise tolerance in patients at risk for or with mild COPD. *Respiratory Physiology and Neurobiology*, **2009**, 165, 97-103	2.8	49
259	Effects of short-term acclimatization to altitude (3200 m) on aerobic and anaerobic exercise performance. *International Journal of Sports Medicine*, **2006**, 27, 629-35	3.6	49
258	Aerobic exercise with relaxation: influence on pain and psychological well-being in female migraine patients. *Clinical Journal of Sport Medicine*, **2008**, 18, 363-5	3.2	46
257	The prevalence of and risk factors for acute mountain sickness in the Eastern and Western Alps. *High Altitude Medicine and Biology*, **2010**, 11, 343-8	1.9	41
256	Risk factors for high-altitude headache in mountaineers. *Cephalalgia*, **2011**, 31, 706-11	6.1	40
255	Prior myocardial infarction is the major risk factor associated with sudden cardiac death during downhill skiing. *International Journal of Sports Medicine*, **2000**, 21, 613-5	3.6	40
254	Risk of cardiovascular events during mountain activities. *Advances in Experimental Medicine and Biology*, **2007**, 618, 1-11	3.6	40
253	Exercise limitations by the oxygen delivery and utilization systems in aging and disease: coordinated adaptation and deadaptation of the lung-heart muscle axis - a mini-review. *Gerontology*, **2013**, 59, 289-96	5.5	39
252	Risk factor profile for sudden cardiac death during mountain hiking. *International Journal of Sports Medicine*, **2007**, 28, 621-4	3.6	39

251	Prevalence of cardiovascular diseases among alpine skiers and hikers in the Austrian Alps. *High Altitude Medicine and Biology*, **2007**, 8, 245-52	1.9	39
250	Role of Dietary Protein and Muscular Fitness on Longevity and Aging **2018**, 9, 119-132		38
249	Prediction of the susceptibility to AMS in simulated altitude. *Sleep and Breathing*, **2008**, 12, 103-8	3.1	38
248	Neuromuscular fatigue during sustained contractions performed in short-term hypoxia. *Medicine and Science in Sports and Exercise*, **2007**, 39, 948-54	1.2	38
247	Normobaric Intermittent Hypoxia over 8 Months Does Not Reduce Body Weight and Metabolic Risk Factors--a Randomized, Single Blind, Placebo-Controlled Study in Normobaric Hypoxia and Normobaric Sham Hypoxia. *Obesity Facts*, **2015**, 8, 200-9	5.1	37
246	Distribution of injury mechanisms and related factors in ACL-injured female carving skiers. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2009**, 17, 1393-8	5.5	37
245	Preacclimatization in simulated altitudes. *Sleep and Breathing*, **2008**, 12, 109-14	3.1	37
244	Factors associated with injuries occurred on slope intersections and in snow parks compared to on-slope injuries. *Accident Analysis and Prevention*, **2013**, 50, 1221-5	6.1	36
243	Bioimpedance identifies body fluid loss after exercise in the heat: a pilot study with body cooling. *PLoS ONE*, **2014**, 9, e109729	3.7	36
242	Survival of the fittest: VOmax, a key predictor of longevity?. *Frontiers in Bioscience - Landmark*, **2018**, 23, 1505-1516	2.8	36
241	Autonomic and cerebrovascular abnormalities in mild COPD are worsened by chronic smoking. *European Respiratory Journal*, **2008**, 32, 1458-65	13.6	35
240	Intermittent hypoxic-hyperoxic training on cognitive performance in geriatric patients. *Alzheimer's and Dementia: Translational Research and Clinical Interventions*, **2017**, 3, 114-122	6	34
239	Fatalities on Austrian ski slopes during a 5-year period. *Wilderness and Environmental Medicine*, **2011**, 22, 326-8	1.4	34
238	Endurance performance of the elderly mountaineer: requirements, limitations, testing, and training. *Wiener Klinische Wochenschrift*, **2004**, 116, 703-14	2.3	34
237	Effects of aspirin during exercise on the incidence of high-altitude headache: a randomized, double-blind, placebo-controlled trial. *Headache*, **2001**, 41, 542-5	4.2	34
236	Extreme Terrestrial Environments: Life in Thermal Stress and Hypoxia. A Narrative Review. *Frontiers in Physiology*, **2018**, 9, 572	4.6	33
235	Ibuprofen versus sumatriptan for high-altitude headache. *Lancet, The*, **1995**, 346, 254-5	40	33
234	The effects of short-term hypoxia on motor cortex excitability and neuromuscular activation. *Journal of Applied Physiology*, **2006**, 101, 1673-7	3.7	31

233	Resting arterial oxygen saturation and breathing frequency as predictors for acute mountain sickness development: a prospective cohort study. *Sleep and Breathing*, **2014**, 18, 669-74	3.1	29
232	Superior endurance performance in aging mountain runners. *Gerontology*, **2008**, 54, 268-71	5.5	29
231	Impact of environmental factors on knee injuries in male and female recreational skiers. *Scandinavian Journal of Medicine and Science in Sports*, **2012**, 22, 185-9	4.6	28
230	Short-term intermittent hypoxia reduces the severity of acute mountain sickness. *Scandinavian Journal of Medicine and Science in Sports*, **2012**, 22, e79-85	4.6	26
229	Are self-reported risk-taking behavior and helmet use associated with injury causes among skiers and snowboarders?. *Scandinavian Journal of Medicine and Science in Sports*, **2015**, 25, 125-30	4.6	25
228	Cardiac troponins in young marathon runners. *American Journal of Cardiology*, **2012**, 110, 594-8	3	25
227	Effects of a single bout of interval hypoxia on cardiorespiratory control and blood glucose in patients with type 2 diabetes. *Diabetes Care*, **2013**, 36, 2183-9	14.6	24
226	Bike Transalp 2008: liquid intake and its effect on the body fluid homeostasis in the course of a multistage, cross-country, MTB marathon race in the central Alps. *Clinical Journal of Sport Medicine*, **2010**, 20, 47-52	3.2	24
225	Association between body water status and acute mountain sickness. *PLoS ONE*, **2013**, 8, e73185	3.7	24
224	Hypoxia triggers high-altitude headache with migraine features: A prospective trial. *Cephalalgia*, **2016**, 36, 765-71	6.1	23
223	Hypoxia and brain aging: Neurodegeneration or neuroprotection?. *Ageing Research Reviews*, **2021**, 68, 101343	12	23
222	Sleeping altitude and sudden cardiac death. *American Heart Journal*, **2013**, 166, 71-5	4.9	22
221	MRI evidence: acute mountain sickness is not associated with cerebral edema formation during simulated high altitude. *PLoS ONE*, **2012**, 7, e50334	3.7	22
220	Effects of interval hypoxia on exercise tolerance: special focus on patients with CAD or COPD. *Sleep and Breathing*, **2010**, 14, 209-20	3.1	22
219	Effect of Qigong exercise on cognitive function, blood pressure and cardiorespiratory fitness in healthy middle-aged subjects. *Complementary Therapies in Medicine*, **2017**, 33, 39-45	3.5	21
218	High-Intensity Interval Training in Normobaric Hypoxia Leads to Greater Body Fat Loss in Overweight/Obese Women than High-Intensity Interval Training in Normoxia. *Frontiers in Physiology*, **2018**, 9, 60	4.6	21
217	Life-style characteristics and cardiovascular risk factors in regular downhill skiers: an observational study. *BMC Public Health*, **2013**, 13, 788	4.1	21
216	Short-term exposure to hypoxia for work and leisure activities in health and disease: which level of hypoxia is safe?. *Sleep and Breathing*, **2012**, 16, 435-42	3.1	21

215	Factors associated with the ability to estimate actual speeds in recreational alpine skiers. *Wilderness and Environmental Medicine*, **2013**, 24, 118-23	1.4	20
214	Dental Occlusion Influences the Standing Balance on an Unstable Platform. *Motor Control*, **2015**, 19, 341-54	1.5	20
213	Ski mountaineering competition: fit for it?. *Clinical Journal of Sport Medicine*, **2011**, 21, 114-8	3.2	20
212	Validation of a German version of the Sport Motivation Scale (SMS28) and motivation analysis in competitive mountain runners. *Perceptual and Motor Skills*, **2011**, 112, 807-20	2.2	19
211	Altitude and COVID-19: Friend or foe? A narrative review. *Physiological Reports*, **2021**, 8, e14615	2.6	19
210	Preparation for Endurance Competitions at Altitude: Physiological, Psychological, Dietary and Coaching Aspects. A Narrative Review. *Frontiers in Physiology*, **2018**, 9, 1504	4.6	19
209	Physiological and Pathophysiological Responses to Ultramarathon Running in Non-elite Runners. *Frontiers in Physiology*, **2019**, 10, 1300	4.6	18
208	Supervised exercise in patients with impaired fasting glucose: impact on exercise capacity. *Clinical Journal of Sport Medicine*, **2009**, 19, 394-8	3.2	18
207	Physiological Responses in Humans Acutely Exposed to High Altitude (3480 m): Minute Ventilation and Oxygenation Are Predictive for the Development of Acute Mountain Sickness. *High Altitude Medicine and Biology*, **2019**, 20, 192-197	1.9	17
206	Diagnosis and prediction of the occurrence of acute mountain sickness measuring oxygen saturation--independent of absolute altitude?. *Sleep and Breathing*, **2016**, 20, 435-42	3.1	17
205	The influence of dental occlusion on the body balance in unstable platform increases after high intensity exercise. *Neuroscience Letters*, **2016**, 617, 116-21	3.3	17
204	Intermittent hypoxia does not affect endurance performance at moderate altitude in well-trained athletes. *Journal of Sports Sciences*, **2010**, 28, 513-9	3.6	17
203	Attitudes regarding ski helmet use among helmet wearers and non-wearers. *Injury Prevention*, **2012** , 18, 182-6	3.2	17
202	Sports injuries and illnesses during the 2015 Winter European Youth Olympic Festival. *British Journal of Sports Medicine*, **2016**, 50, 631-6	10.3	17
201	Body fluid status and physical demand during the Giro d'Italia. *Research in Sports Medicine*, **2016**, 24, 30-8	3.8	17
200	Factors associated with self-reported failure of binding release among ACL injured male and female recreational skiers: a catalyst to change ISO binding standards?. *British Journal of Sports Medicine*, **2016**, 50, 37-40	10.3	16
199	Symptom progression in acute mountain sickness during a 12-hour exposure to normobaric hypoxia equivalent to 4500 m. *High Altitude Medicine and Biology*, **2014**, 15, 446-51	1.9	16
198	Sildenafil and bosentan improve arterial oxygenation during acute hypoxic exercise: a controlled laboratory trial. *Wilderness and Environmental Medicine*, **2011**, 22, 211-21	1.4	16

197	The upper limit of aerobic power in humans. *European Journal of Applied Physiology*, **2011**, 111, 2625-8	3.4	16
196	Risk and Protective Factors for Sudden Cardiac Death During Leisure Activities in the Mountains: An Update. *Heart Lung and Circulation*, **2017**, 26, 757-762	1.8	15
195	Cardiorespiratory Fitness of High Altitude Mountaineers: The Underestimated Prerequisite. *High Altitude Medicine and Biology*, **2015**, 16, 169-70	1.9	15
194	Endurance Training in Normobaric Hypoxia Imposes Less Physical Stress for Geriatric Rehabilitation. *Frontiers in Physiology*, **2017**, 8, 514	4.6	15
193	Plasma electrolyte and hematological changes after marathon running in adolescents. *Medicine and Science in Sports and Exercise*, **2013**, 45, 1182-7	1.2	15
192	Impact of a ski helmet mandatory on helmet use on Austrian ski slopes. *Journal of Trauma*, **2011**, 71, 1085-7		15
191	Effects of a 12-day maximal shuttle-run shock microcycle in hypoxia on soccer specific performance and oxidative stress. *Applied Physiology, Nutrition and Metabolism*, **2015**, 40, 842-5	3	14
190	Fall-related accidents among hikers in the Austrian Alps: a 9-year retrospective study. *BMJ Open Sport and Exercise Medicine*, **2017**, 3, e000304	3.4	14
189	Factors Associated with the Perception of Speed among Recreational Skiers. *PLoS ONE*, **2015**, 10, e0132002	3.7	14
188	Effects of intermittent hypoxia on running economy. *International Journal of Sports Medicine*, **2010**, 31, 644-50	3.6	14
187	Do ski helmets affect reaction time to peripheral stimuli?. *Wilderness and Environmental Medicine*, **2011**, 22, 148-50	1.4	14
186	Effects of lightweight outdoor clothing on the prevention of hypothermia during low-intensity exercise in the cold. *Clinical Journal of Sport Medicine*, **2012**, 22, 505-7	3.2	14
185	Differences in Sensation Seeking Between Alpine Skiers, Snowboarders and Ski Tourers. *Journal of Sports Science and Medicine*, **2016**, 15, 11-6	2.7	14
184	Supervised Short-term High-intensity Training on Plasma Irisin Concentrations in Type 2 Diabetic Patients. *International Journal of Sports Medicine*, **2019**, 40, 158-164	3.6	13
183	Dental occlusion and body balance: A question of environmental constraints?. *Journal of Oral Rehabilitation*, **2019**, 46, 388-397	3.4	13
182	Concentric and Eccentric Endurance Exercise Reverse Hallmarks of T-Cell Senescence in Pre-diabetic Subjects. *Frontiers in Physiology*, **2019**, 10, 684	4.6	13
181	Is There a Link Between Physical Activity and Alcohol use?. *Substance Use and Misuse*, **2015**, 50, 546-51	2.2	13
180	Influence of Inspiratory Muscle Training on Ventilatory Efficiency and Cycling Performance in Normoxia and Hypoxia. *Frontiers in Physiology*, **2017**, 8, 133	4.6	13

179	Heart rate and blood pressure responses during hypoxic cycles of a 3-week intermittent hypoxia breathing program in patients at risk for or with mild COPD. *International Journal of COPD*, **2015**, 10, 339-45	3	13
178	High-energy phosphate metabolism during two bouts of progressive calf exercise in humans measured by phosphorus-31 magnetic resonance spectroscopy. *European Journal of Applied Physiology*, **2005**, 93, 469-79	3.4	13
177	The Influence of Dental Occlusion on Dynamic Balance and Muscular Tone. *Frontiers in Physiology*, **2019**, 10, 1626	4.6	13
176	Acute effects of concentric and eccentric exercise on glucose metabolism and interleukin-6 concentration in healthy males. *Biology of Sport*, **2016**, 33, 153-8	4.3	13
175	Prevalence and potential risk factors of flight-related neck, shoulder and low back pain among helicopter pilots and crewmembers: a questionnaire-based study. *BMC Musculoskeletal Disorders*, **2019**, 20, 44	2.8	12
174	Differing levels of acute hypoxia do not influence maximal anaerobic power capacity. *Wilderness and Environmental Medicine*, **2015**, 26, 78-82	1.4	12
173	Anaerobic training in hypoxia: A new approach to stimulate the rating of effort perception. *Physiology and Behavior*, **2016**, 163, 37-42	3.5	12
172	A successful therapy of high-altitude pulmonary edema with a CPAP helmet on Lenin Peak. *Clinical Journal of Sport Medicine*, **2009**, 19, 72-3	3.2	12
171	Beta-blockers may provoke oxygen desaturation during submaximal exercise at moderate altitudes in elderly persons. *High Altitude Medicine and Biology*, **2003**, 4, 475-8	1.9	12
170	Randomised, Double-Blind, Comparative Study of Morphine and Tramadol Administered Intra-Articularly for Postoperative Analgesia Following Arthroscopic Surgery. *Clinical Drug Investigation*, **1995**, 10, 17-21	3.2	12
169	Acute effects of concentric and eccentric exercise matched for energy expenditure on glucose metabolism in healthy females: a randomized crossover trial. *SpringerPlus*, **2016**, 5, 1455		12
168	The Use of Pulse Oximetry in the Assessment of Acclimatization to High Altitude. *Sensors*, **2021**, 21,	3.8	12
167	Seven Passive 1-h Hypoxia Exposures Do Not Prevent AMS in Susceptible Individuals. *Medicine and Science in Sports and Exercise*, **2016**, 48, 2563-2570	1.2	11
166	SpO and Heart Rate During a Real Hike at Altitude Are Significantly Different than at Its Simulation in Normobaric Hypoxia. *Frontiers in Physiology*, **2017**, 8, 81	4.6	11
165	Viscose as an alternative to aramid in workwear: Influence on endurance performance, cooling, and comfort. *Textile Reseach Journal*, **2013**, 83, 2085-2092	1.7	11
164	Effects of a single bout of interval hypoxia on cardiorespiratory control in patients with type 1 diabetes. *Diabetes*, **2013**, 62, 4220-7	0.9	11
163	Frontal plane leg alignment and muscular activity during maximum eccentric contractions in individuals with and without patellofemoral pain syndrome. *Knee*, **2008**, 15, 180-6	2.6	11
162	Acetazolamide pre-treatment before ascending to high altitudes: when to start?. *International Journal of Clinical and Experimental Medicine*, **2014**, 7, 4378-83		11

161	Effects of High-Intensity Interval Training Under Normobaric Hypoxia on Cardiometabolic Risk Markers in Overweight/Obese Women. *High Altitude Medicine and Biology*, **2018**, 19, 356-366	1.9	11
160	Is decision making in hypoxia affected by pre-acclimatisation? A randomized controlled trial. *Physiology and Behavior*, **2017**, 173, 236-242	3.5	10
159	Cutaneous Microvascular Blood Flow and Reactivity in Hypoxia. *Frontiers in Physiology*, **2018**, 9, 160	4.6	10
158	Does living at moderate altitudes in Austria affect mortality rates of various causes? An ecological study. *BMJ Open*, **2021**, 11, e048520	3	10
157	Lower mortality rates in those living at moderate altitude. *Aging*, **2016**, 8, 2603-2604	5.6	10
156	Energy metabolism, liver and kidney function in adolescent marathon runners. *European Journal of Clinical Investigation*, **2016**, 46, 27-33	4.6	10
155	Mortality in Different Mountain Sports Activities Primarily Practiced in the Summer Season-A Narrative Review. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	10
154	The central role of mitochondrial fitness on antiviral defenses: An advocacy for physical activity during the COVID-19 pandemic. *Redox Biology*, **2021**, 43, 101976	11.3	10
153	Effects of Whole-Body Vibration Training Combined With Cyclic Hypoxia on Bone Mineral Density in Elderly People. *Frontiers in Physiology*, **2019**, 10, 1122	4.6	9
152	Is ski boot sole abrasion a potential ACL injury risk factor for male and female recreational skiers?. *Scandinavian Journal of Medicine and Science in Sports*, **2019**, 29, 736-741	4.6	9
151	Impact of a Soccer Game on Cardiac Biomarkers in Adolescent Players. *Pediatric Exercise Science*, **2018**, 30, 90-95	2	9
150	Prevalence of obesity and motor performance capabilities in Tyrolean preschool children. *Wiener Klinische Wochenschrift*, **2014**, 126, 409-15	2.3	9
149	Does risk compensation undo the protection of ski helmet use?. *Epidemiology*, **2012**, 23, 936-7	3.1	9
148	The risk of death to trekkers and hikers in the mountains. *JAMA - Journal of the American Medical Association*, **1995**, 273, 460	27.4	9
147	Specific exercise testing in judo athletes. *Archives of Budo*,8, 133-139		9
146	Exercise Performance, Muscle Oxygen Extraction and Blood Cell Mitochondrial Respiration after Repeated-Sprint and Sprint Interval Training in Hypoxia: A Pilot Study. *Journal of Sports Science and Medicine*, **2018**, 17, 339-347	2.7	9
145	Is the Effect of Physical Activity on Quality of Life in Older Adults Mediated by Social Support?. *Gerontology*, **2019**, 65, 375-382	5.5	9
144	Putative Role of Respiratory Muscle Training to Improve Endurance Performance in Hypoxia: A Review. *Frontiers in Physiology*, **2018**, 9, 1970	4.6	9

143	Are Risk-Taking and Ski Helmet Use Associated with an ACL Injury in Recreational Alpine Skiing?. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	8
142	Effect of 3-week high-intensity interval training on VO2max, total haemoglobin mass, plasma and blood volume in well-trained athletes. *European Journal of Applied Physiology*, **2015**, 115, 2349-56	3.4	8
141	Performance limitation and the role of core temperature when wearing light-weight workwear under moderate thermal conditions. *Journal of Thermal Biology*, **2015**, 47, 83-90	2.9	8
140	Mortality in Different Mountain Sports Activities Primarily Practiced in the Winter Season-A Narrative Review. *International Journal of Environmental Research and Public Health*, **2019**, 17,	4.6	8
139	Ventilatory efficiency and breathing pattern in world-class cyclists: A three-year observational study. *Respiratory Physiology and Neurobiology*, **2016**, 229, 17-23	2.8	8
138	Favourable changes of the risk-benefit ratio in alpine skiing. *International Journal of Environmental Research and Public Health*, **2015**, 12, 6092-7	4.6	8
137	Race performance and exercise intensity of male amateur mountain runners during a multistage mountain marathon competition are not dependent on muscle strength loss or cardiorespiratory fitness. *Journal of Strength and Conditioning Research*, **2013**, 27, 2149-56	3.2	8
136	Effects of a single low-dose acetaminophen on body temperature and running performance in the heat: a pilot project. *International Journal of Physiology, Pathophysiology and Pharmacology*, **2013**, 5, 190-3	3.4	8
135	Impact of High Altitude on Cardiovascular Health: Current Perspectives. *Vascular Health and Risk Management*, **2021**, 17, 317-335	4.4	8
134	Accidental hypothermia in recreational activities in the mountains: A narrative review. *Scandinavian Journal of Medicine and Science in Sports*, **2018**, 28, 2464-2472	4.6	8
133	Potential Health Benefits From Downhill Skiing. *Frontiers in Physiology*, **2018**, 9, 1924	4.6	7
132	Incidences of Fatalities on Austrian Ski Slopes: A 10-Year Analysis. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	7
131	Injury-Related Behavioral Variables in Alpine Skiers, Snowboarders, and Ski Tourers-A Matched and Enlarged Re-Analysis. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	7
130	Normobaric hypoxia overnight impairs cognitive reaction time. *BMC Neuroscience*, **2017**, 18, 43	3.2	7
129	Effects of massage under hypoxic conditions on exercise-induced muscle damage and physical strain indices in professional soccer players. *Biology of Sport*, **2013**, 30, 81-3	4.3	7
128	Preexisting cardiovascular diseases among high-altitude mountaineers in the alps. *Journal of Travel Medicine*, **2011**, 18, 355-7	12.9	7
127	Physiological basis to climb Mt. Everest in one day. *Respiratory Physiology and Neurobiology*, **2009**, 166, 3	2.8	7
126	AEROBIC POWER IN CHILD, CADET AND SENIOR JUDO ATHLETES. *Biology of Sport*, **2012**, 29, 217-222	4.3	7

125	Avalanche survival chances. *Nature*, **1994**, 371, 482	50.4	7
124	The Effects of 3 Weeks of Uphill and Downhill Walking on Blood Lipids and Glucose Metabolism in Pre-Diabetic Men: A Pilot Study. *Journal of Sports Science and Medicine*, **2017**, 16, 35-43	2.7	7
123	Caution is needed on the effect of altitude on the pathogenesis of SAR-CoV-2 virus. *Respiratory Physiology and Neurobiology*, **2020**, 279, 103464	2.8	7
122	In recreational alpine skiing, the ACL is predominantly injured in all knee injuries needing hospitalisation. *Knee Surgery, Sports Traumatology, Arthroscopy*, **2021**, 29, 1790-1796	5.5	7
121	Is acute mountain sickness related to trait anxiety? A normobaric chamber study. *Physiology and Behavior*, **2017**, 171, 187-191	3.5	6
120	Effects of intermittent hypoxia-hyperoxia on mobility and perceived health in geriatric patients performing a multimodal training intervention: a randomized controlled trial. *BMC Geriatrics*, **2019**, 19, 167	4.1	6
119	Submaximal exercise testing at low altitude for prediction of exercise tolerance at high altitude. *Journal of Travel Medicine*, **2018**, 25,	12.9	6
118	Are Pre-Ascent Low-Altitude Saliva Cortisol Levels Related to the Subsequent Acute Mountain Sickness Score? Observations from a Field Study. *High Altitude Medicine and Biology*, **2019**, 20, 337-343	1.9	6
117	High cardiorespiratory fitness is more beneficial in pre-diabetic men than women. *Clinics*, **2011**, 66, 747-51	2.3	6
116	Ventilation-limited exercise capacity in a 59-year-old athlete. *Respiratory Physiology and Neurobiology*, **2011**, 175, 181-4	2.8	6
115	Mechanism of ACL injury in skiers. *American Journal of Sports Medicine*, **2011**, 39, NP5; author reply NP5-6	6.8	6
114	Leukonychia following high altitude exposure. *High Altitude Medicine and Biology*, **2002**, 3, 93-4	1.9	6
113	Effects of short-term antioxidant supplementation on oxidative stress and exercise performance in the heat and the cold. *International Journal of Physiology, Pathophysiology and Pharmacology*, **2015**, 7, 98-104	3.4	6
112	The "FIFA 11+" injury prevention program improves body stability in child (10 year old) soccer players. *Biology of Sport*, **2018**, 35, 153-158	4.3	6
111	Different training responses to eccentric endurance exercise at low and moderate altitudes in pre-diabetic men: a pilot study. *Sport Sciences for Health*, **2017**, 13, 615-623	1.3	5
110	Cardiac Arrest during Competitive Sports. *New England Journal of Medicine*, **2018**, 378, 1464-1465	59.2	5
109	The effect of pulsating electrostatic field application on the development of delayed onset of muscle soreness (DOMS) symptoms after eccentric exercise. *Journal of Physical Therapy Science*, **2015**, 27, 3105-7	1	5
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