

Franck Brocherie

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

1,890
citations

257357

24
h-index

302012

39
g-index

96
all docs

96
docs citations

96
times ranked

1398
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Repeated-Sprint Training in Hypoxia on Sea-Level Performance: A Meta-Analysis. <i>Sports Medicine</i> , 2017, 47, 1651-1660.	3.1	128
2	Effects of Altitude/Hypoxia on Single- and Multiple-Sprint Performance: A Comprehensive Review. <i>Sports Medicine</i> , 2017, 47, 1931-1949.	3.1	105
3	Therapeutic Use of Exercising in Hypoxia: Promises and Limitations. <i>Frontiers in Physiology</i> , 2016, 7, 224.	1.3	98
4	“Live High” Train Low and High Hypoxic Training Improves Team-Sport Performance. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2140-2149.	0.2	89
5	Electrostimulation Training Effects on the Physical Performance of Ice Hockey Players. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 455-460.	0.2	83
6	Relationships between anthropometric measures and athletic performance, with special reference to repeated-sprint ability, in the Qatar national soccer team. <i>Journal of Sports Sciences</i> , 2014, 32, 1243-1254.	1.0	70
7	High-Intensity Intermittent Training in Hypoxia. <i>Journal of Strength and Conditioning Research</i> , 2015, 29, 226-237.	1.0	66
8	Neuro-mechanical and metabolic adjustments to the repeated anaerobic sprint test in professional football players. <i>European Journal of Applied Physiology</i> , 2015, 115, 891-903.	1.2	58
9	Hypoxic training and team sports: a challenge to traditional methods?. <i>British Journal of Sports Medicine</i> , 2013, 47, i6-i7.	3.1	57
10	Repeated sprinting on natural grass impairs vertical stiffness but does not alter plantar loading in soccer players. <i>European Journal of Applied Physiology</i> , 2011, 111, 2547-2555.	1.2	44
11	Emerging Environmental and Weather Challenges in Outdoor Sports. <i>Climate</i> , 2015, 3, 492-521.	1.2	44
12	Repeated maximal intensity hypoxic exercise superimposed to hypoxic residence boosts skeletal muscle transcriptional responses in elite team sport athletes. <i>Acta Physiologica</i> , 2018, 222, e12851.	1.8	44
13	An Updated Panorama of Living Low-Training High Altitude/Hypoxic Methods. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 26.	0.9	43
14	Repeated sprint training in hypoxia “ an innovative method. <i>Deutsche Zeitschrift Fur Sportmedizin</i> , 2019, 2019, 115-122.	0.2	43
15	Hypoxic Training Is Beneficial in Elite Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 515-518.	0.2	42
16	Is the Wet-Bulb Globe Temperature (WBGT) Index Relevant for Exercise in the Heat?. <i>Sports Medicine</i> , 2015, 45, 1619-1621.	3.1	40
17	Lower limb mechanical asymmetry during repeated treadmill sprints. <i>Human Movement Science</i> , 2017, 52, 203-214.	0.6	39
18	Updated analysis of changes in locomotor activities across periods in an international ice hockey game. <i>Biology of Sport</i> , 2018, 35, 261-267.	1.7	35

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19	Altitude and COVID-19: Friend or foe? A narrative review. <i>Physiological Reports</i> , 2021, 8, e14615.	0.7	35
20	Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Commentaries on Viewpoint: Time for a new metric for hypoxic dose? Journal of Applied Physiology, 2016, 121, 356-358.	1.2	29
21	Mechanical Alterations to Repeated Treadmill Sprints in Normobaric Hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1570-1579.	0.2	28
22	Under the Hood: Skeletal Muscle Determinants of Endurance Performance. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 719434.	0.9	28
23	Changes in running mechanics over 100-m, 200-m and 400-m treadmill sprints. <i>Journal of Biomechanics</i> , 2016, 49, 1490-1497.	0.9	27
24	Is live high <i>â€“</i>train low altitude training relevant for elite athletes? Flawed analysis from inaccurate data. <i>British Journal of Sports Medicine</i> , 2019, 53, 923-925.	3.1	27
25	Adaptations in muscle oxidative capacity, fiber size, and oxygen supply capacity after repeated-sprint training in hypoxia combined with chronic hypoxic exposure. <i>Journal of Applied Physiology</i> , 2018, 124, 1403-1412.	1.2	25
26	Comparison of Four Sections for Analyzing Running Mechanics Alterations During Repeated Treadmill Sprints. <i>Journal of Applied Biomechanics</i> , 2015, 31, 389-395.	0.3	24
27	Association of Hematological Variables with Team-Sport Specific Fitness Performance. <i>PLoS ONE</i> , 2015, 10, e0144446.	1.1	24
28	Translating Science Into Practice: The Perspective of the Doha 2019 IAAF World Championships in the Heat. <i>Frontiers in Sports and Active Living</i> , 2019, 1, 39.	0.9	23
29	Neuro-mechanical determinants of repeated treadmill sprints - Usefulness of an <i>â€œ</i>hypoxic to normoxic recovery<i>â€“</i>approach. <i>Frontiers in Physiology</i> , 2015, 6, 260.	1.3	22
30	Psychophysiological Responses to Repeated-Sprint Training in Normobaric Hypoxia and Normoxia. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 115-123.	1.1	22
31	Repeated-Sprint Training in Hypoxia in International Rugby Union Players. <i>International Journal of Sports Physiology and Performance</i> , 2019, 14, 850-854.	1.1	21
32	On the use of mobile inflatable hypoxic marquees for sport-specific altitude training in team sports. <i>British Journal of Sports Medicine</i> , 2013, 47, i121-i123.	3.1	20
33	Kinetic Sprint Asymmetries on a non-motorised Treadmill in Rugby Union Athletes. <i>International Journal of Sports Medicine</i> , 2017, 38, 1017-1022.	0.8	20
34	Influence of Weather, Rank, and Home Advantage on Football Outcomes in the Gulf Region. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 401-410.	0.2	19
35	Intrasession and Intersession Reliability of Running Mechanics During Treadmill Sprints. <i>International Journal of Sports Physiology and Performance</i> , 2016, 11, 432-439.	1.1	19
36	Do male athletes with already high initial haemoglobin mass benefit from <i>â€“live high</i><i>â€“train low</i><i>â€™</i> altitude training?. <i>Experimental Physiology</i> , 2018, 103, 68-76.	0.9	18

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37	Effects of Repeated-Sprint Training in Hypoxia on Tennis-Specific Performance in Well-Trained Players. <i>Sports Medicine International Open</i> , 2018, 02, E123-E132.	0.3	18
38	Reliability of the force-velocity-power variables during ice hockey sprint acceleration. <i>Sports Biomechanics</i> , 2022, 21, 56-70.	0.8	18
39	Olympic Sports Scienceâ€™ Bibliometric Analysis of All Summer and Winter Olympic Sports Research. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 772140.	0.9	16
40	Running mechanical alterations during repeated treadmill sprints in hot<i>versus</i>hypoxic environments. A pilot study. <i>Journal of Sports Sciences</i> , 2016, 34, 1190-1198.	1.0	15
41	Mechanical alterations during interval-training treadmill runs in high-level male team-sport players. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, 87-91.	0.6	15
42	Comparison of Game Movement Positional Profiles Between Professional Club and Senior International Rugby Union Players. <i>International Journal of Sports Medicine</i> , 2019, 40, 385-389.	0.8	15
43	Central and peripheral muscle fatigue following repeatedâ€™sprint running in moderate and severe hypoxia. <i>Experimental Physiology</i> , 2021, 106, 126-138.	0.9	12
44	Outdoor exercise performance in ambient heat: Time to overcome challenging factors?. <i>International Journal of Hyperthermia</i> , 2014, 30, 547-549.	1.1	11
45	Asymmetries during repeated treadmill sprints in elite female Rugby Sevens players. <i>Sports Biomechanics</i> , 2023, 22, 863-873.	0.8	11
46	Mechanical determinants of forward skating sprint inferred from offâ€™and onâ€™ice forceâ€™velocity evaluations in elite female ice hockey players. <i>European Journal of Sport Science</i> , 2021, 21, 192-203.	1.4	11
47	Concomitant aerobic- and hypertrophy-related skeletal muscle cell signaling following blood flow-restricted walking. <i>Science and Sports</i> , 2021, 36, e51-e58.	0.2	11
48	Mechanical Alterations Associated with Repeated Treadmill Sprinting under Heat Stress. <i>PLoS ONE</i> , 2017, 12, e0170679.	1.1	11
49	Shock microcycle of repeated-sprint training in hypoxia and tennis performance: Case study in a rookie professional player. <i>International Journal of Sports Science and Coaching</i> , 2018, 13, 723-728.	0.7	10
50	On the Use of the Repeated-Sprint Training in Hypoxia in Tennis. <i>Frontiers in Physiology</i> , 2020, 11, 588821.	1.3	10
51	Hypoxic exercise as an effective nonpharmacological therapeutic intervention. <i>Experimental and Molecular Medicine</i> , 2020, 52, 529-530.	3.2	10
52	High Altitude Increases Alteration in Maximal Torque but Not in Rapid Torque Development in Knee Extensors after Repeated Treadmill Sprinting. <i>Frontiers in Physiology</i> , 2016, 7, 97.	1.3	9
53	Clarification on altitude training. <i>Experimental Physiology</i> , 2017, 102, 130-131.	0.9	9
54	Upperâ€™body repeatedâ€™sprint training in hypoxia in international rugby union players. <i>European Journal of Sport Science</i> , 2019, 19, 1175-1183.	1.4	9

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55	Effectiveness of the hypoxic exercise test to predict altitude illness and performance at moderate altitude in high-level swimmers. <i>Physiological Reports</i> , 2020, 8, e14390.	0.7	8
56	All Alone We Go Faster, Together We Go Further: The Necessary Evolution of Professional and Elite Sporting Environment to Bridge the Gap Between Research and Practice. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 631147.	0.9	8
57	Hypoxic dose, intensity distribution, and fatigue monitoring are paramount for elite high-train low-effectiveness. <i>European Journal of Applied Physiology</i> , 2017, 117, 2119-2120.	1.2	7
58	Running mechanics and leg muscle activity patterns during early and late acceleration phases of repeated treadmill sprints in male recreational athletes. <i>European Journal of Applied Physiology</i> , 2020, 120, 2785-2796.	1.2	7
59	Can analysis of performance and neuromuscular recoveries from repeated sprints shed more light on its fatigue-causing mechanisms?. <i>Frontiers in Physiology</i> , 2015, 6, 5.	1.3	6
60	How does playing position affect fatigue-induced changes in high-intensity locomotor and micro-movements patterns during professional rugby union games?. <i>European Journal of Sport Science</i> , 2021, 21, 1364-1374.	1.4	6
61	Effect of heat pre-conditioning on recovery following exercise-induced muscle damage. <i>Current Research in Physiology</i> , 2021, 4, 155-162.	0.8	6
62	Commentaries on Viewpoint: Human skeletal muscle wasting in hypoxia: a matter of hypoxic dose?. <i>Journal of Applied Physiology</i> , 2017, 122, 409-411.	1.2	5
63	Influence of environmental factors on Olympic cross-country mountain bike performance. <i>Temperature</i> , 2020, 7, 149-156.	1.6	4
64	Effects of a 14-Day High-Intensity Shock Microcycle in High-Level Ice Hockey Players' Fitness. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 2247-2252.	1.0	4
65	International matches elicit stable mechanical workload in high-level female ice hockey. <i>Biology of Sport</i> , 2022, 39, 857-864.	1.7	4
66	Three weeks of a home-based sleep low-train low-intervention improves functional threshold power in trained cyclists: A feasibility study. <i>PLoS ONE</i> , 2021, 16, e0260959.	1.1	4
67	Exercise-Based Injury Prevention in High-Level and Professional Athletes: Narrative Review and Proposed Standard Operating Procedure for Future Lockdown-Like Contexts After COVID-19. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 745765.	0.9	4
68	Effect of Prior Fatiguing Sport-Specific Exercise on Field Hockey Passing Ability. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 1324-1330.	1.1	3
69	Influence of Altitude on Elite Biathlon Performances. <i>High Altitude Medicine and Biology</i> , 2019, 20, 312-317.	0.5	3
70	Wales Anaerobic Test. <i>Journal of Strength and Conditioning Research</i> , 2019, Publish Ahead of Print, .	1.0	3
71	Editorial: Elevating Sport Performance to New Heights With Innovative "Live Low Train High"™ Altitude Training. <i>Frontiers in Sports and Active Living</i> , 2020, 2, 108.	0.9	3
72	Hyperthermia reduces electromechanical delay via accelerated electrochemical processes. <i>Journal of Applied Physiology</i> , 2021, 130, 290-297.	1.2	3

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73	Ice Hockey Forward Skating Force-Velocity Profiling Using Single Unloaded vs. Multiple Loaded Methods. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 3229-3233.	1.0	3
74	Faster early rate of force development in warmer muscle: an in vivo exploration of fascicle dynamics and muscle-tendon mechanical properties. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2022, 323, R123-R132.	0.9	3
75	Does altitude level of a prior time-trial modify subsequent exercise performance in hypoxia and associated neuromuscular responses?. <i>Physiological Reports</i> , 2016, 4, e12804.	0.7	2
76	Altitude-induced responses observed in the control group. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 2243-2243.	1.3	2
77	Altitud y deportes de equipo: métodos tradicionales desafiados por un entrenamiento innovador y específico en hipoxia. [Altitude and team sports: traditional methods challenged by innovative sport-specific training in hypoxia].. <i>RICYDE Revista Internacional De Ciencias Del Deporte</i> , 2016, 12, 338-358.	0.1	2
78	Is Plantar Loading Altered During Repeated Sprints on Artificial Turf in International Football Players?. <i>Journal of Sports Science and Medicine</i> , 2018, 17, 359-365.	0.7	2
79	Effect of a 16-Day Altitude Training Camp on 3,000-m Steeplechase Running Energetics and Biomechanics: A Case Study. <i>Frontiers in Sports and Active Living</i> , 2019, 1, 63.	0.9	1
80	Do twelve normobaric hypoxic exposures indeed provoke relevant acclimatization for high-altitude workers?. <i>International Journal of Biometeorology</i> , 2021, 65, 637-638.	1.3	1
81	Truncated Estimation of Skating Force-Velocity Profiling When Using High-Speed Video-Based Methods Compared to Radar-Derived Processing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 661744.	2.0	1
82	High-intensity Activity in European vs. National Rugby Union Games in the best 2014-2015 Team. <i>International Journal of Sports Medicine</i> , 2021, 42, 529-536.	0.8	1
83	Does "Live High-Train Low (and High)" Hypoxic Training Alter Running Mechanics In Elite Team-sport Players?. <i>Journal of Sports Science and Medicine</i> , 2017, 16, 328-332.	0.7	1
84	Effects of repeated-sprint training in hypoxia induced by voluntary hypoventilation on performance during ice hockey off-season. <i>International Journal of Sports Science and Coaching</i> , 2023, 18, 446-452.	0.7	1
85	Commentaries on Viewpoint: Consider iron status when making sex comparisons in human physiology. <i>Journal of Applied Physiology</i> , 2022, 132, 703-709.	1.2	1
86	Yo-Yo Intermittent Recovery Test Performance in Soccer Players. <i>Medicine and Science in Sports and Exercise</i> , 2010, 42, 833.	0.2	0
87	Relationships between anthropometric factors and repeated-sprint ability in the Qatar national soccer team. <i>Qatar Foundation Annual Research Forum Proceedings</i> , 2012, , BMPS11.	0.0	0
88	“Live High-Train Low” Paradigm: Moving the Debate Forward. <i>Exercise and Sport Sciences Reviews</i> , 2018, 46, 271-271.	1.6	0
89	Combining Blood Flow Restriction Training With Heat To Maximize Hypertrophy And Strength In Rugby Players. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 845-845.	0.2	0
90	Comparing Hypoxic and Heat Stressors: More Challenging Than it Seems. <i>Exercise and Sport Sciences Reviews</i> , 2021, 49, 223-224.	1.6	0

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91	Editorial: From Physiological Adaptations to Endurance Performance: It Is Time to Bridge the Gap. <i>Frontiers in Sports and Active Living</i> , 2021, 3, 775654.	0.9	0
92	Repeated sprinting on natural grass impairs vertical stiffness but doesn't alter plantar loading in Qatari soccer players. <i>Qatar Foundation Annual Research Forum Proceedings</i> , 2010, , BMP25.	0.0	0
93	Running Mechanics And Spring-Mass Behaviour During Treadmill Repeated Sprints Are Different In Hypoxia And In Normoxia. , 2013, , .		0
94	Motor Simulation as an Adjunct to Patient Recovery Process Following Intensive Care Unit Admission. <i>Frontiers in Medicine</i> , 2022, 9, 868514.	1.2	0
95	Multi-hosting UEFA European Football Championship: fair enough between participating teams?. <i>Science and Medicine in Football</i> , 2022, , 1-6.	1.0	0