Serge Berthoin

List of Publications by Year
in descending order

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124 papers	5,562 citations	76326 40 h-index	85541 71 g-index
133 all docs	133 docs citations	133 times ranked	5318 citing authors

#	Article	IF	Citations
1	Validity of the Polar S810 Heart Rate Monitor to Measure R-R Intervals at Rest. Medicine and Science in Sports and Exercise, 2006, 38, 887-893.	0.4	371
2	Effect of 2 Soccer Matches in a Week on Physical Performance and Injury Rate. American Journal of Sports Medicine, 2010, 38, 1752-1758.	4.2	317
3	Improving physical activity assessment in prepubertal children with high-frequency accelerometry monitoring: A methodological issue. Preventive Medicine, 2007, 44, 143-147.	3.4	289
4	Recovery in Soccer. Sports Medicine, 2013, 43, 9-22.	6.5	231
5	Recovery in Soccer. Sports Medicine, 2012, 42, 997-1015.	6.5	219
6	Risk factors, testing and preventative strategies for non-contact injuries in professional football: current perceptions and practices of 44 teams from various premier leagues. British Journal of Sports Medicine, 2014, 48, 1352-1357.	6.7	215
7	Endurance Training and Aerobic Fitness in Young People. Sports Medicine, 2003, 33, 1127-1143.	6.5	210
8	Recovery in Soccer. Sports Medicine, 2012, 42, 997-1015.	6.5	185
9	Injury risk factors, screening tests and preventative strategies: a systematic review of the evidence that underpins the perceptions and practices of 44 football (soccer) teams from various premier leagues. British Journal of Sports Medicine, 2015, 49, 583-589.	6.7	164
10	The Influence of Soccer Playing Actions on the Recovery Kinetics After a Soccer Match. Journal of Strength and Conditioning Research, 2014, 28, 1517-1523.	2.1	157
11	Effect of high intensity intermittent training on heart rate variability in prepubescent children. European Journal of Applied Physiology, 2009, 105, 731-738.	2.5	120
12	Type 1 diabetesâ€associated cognitive decline: A metaâ€analysis and update of the current literature 1åž‹ç³–å°¿ç—…ç›¸å…³è®¤çŸ¥èƒ Journal of Diabetes, 2014, 6, 499-513.	1.8	111
13	Passive versus Active Recovery during High-Intensity Intermittent Exercises. Medicine and Science in Sports and Exercise, 2004, 36, 302-308.	0.4	104
14	Relationship between oxygen uptake kinetics and performance in repeated running sprints. European Journal of Applied Physiology, 2005, 95, 27-34.	2.5	104
15	Validity of the Polar S810 to Measure R-R Intervals in Children. International Journal of Sports Medicine, 2008, 29, 134-138.	1.7	99
16	Performance for short intermittent runs: active recovery vs. passive recovery. European Journal of Applied Physiology, 2003, 89, 548-554.	2.5	98
17	The Effect of In-Season, High-Intensity Interval Training in Soccer Players. Journal of Strength and Conditioning Research, 2004, 18, 584.	2.1	97
18	Effects of High Intensity Intermittent Training on Peak VÃ‹Â™O2 in Prepubertal Children. International Journal of Sports Medicine, 2002, 23, 439-444.	1.7	92

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19	Oxygen kinetics and modelling of time to exhaustion whilst running at various velocities at maximal oxygen uptake. European Journal of Applied Physiology, 2000, 82, 178-187.	2.5	86
20	Determination of the velocity associated with the longest time to exhaustion at maximal oxygen uptake. European Journal of Applied Physiology and Occupational Physiology, 1999, 80, 159-161.	1.2	73
21	Critical Velocity and Time Spent at a High Level of for Short Intermittent Runs at Supramaximal Velocities. Applied Physiology, Nutrition, and Metabolism, 2002, 27, 103-115.	1.7	72
22	Relationship Between Run Times to Exhaustion at 90, 100, 120, and 140 % of vVË™O2max and Velocity Expressed Relatively to Critical Velocity and Maximal Velocity. International Journal of Sports Medicine, 2001, 22, 27-33.	1.7	69
23	Continuous vs. Interval Aerobic Training in 8- to 11-Year-Old Children. Journal of Strength and Conditioning Research, 2010, 24, 1381-1388.	2.1	68
24	High-Intensity Aerobic Training During a 10 Week One-Hour Physical Education Cycle : Effects on Physical Fitness of Adolescents Aged 11 to 16. International Journal of Sports Medicine, 2001, 22, 295-300.	1.7	67
25	Comparison of two field tests to estimate maximum aerobic speed. Journal of Sports Sciences, 1994, 12, 355-362.	2.0	65
26	Reliability of Postexercise Heart Rate Recovery. International Journal of Sports Medicine, 2008, 29, 238-243.	1.7	64
27	Killing time: drug and alcohol problems among asylum seekers in the Netherlands. International Journal of Drug Policy, 2005, 16, 27-36.	3.3	61
28	Faster oxygen uptake kinetics during recovery is related to better repeated sprinting ability. European Journal of Applied Physiology, 2010, 110, 627-634.	2.5	59
29	Effect of dietary nitrate supplementation on metabolic rate during rest and exercise in human: A systematic review and a meta-analysis. Nitric Oxide - Biology and Chemistry, 2016, 53, 65-76.	2.7	58
30	Longitudinal follow-up of fitness during childhood: interaction with physical activity. American Journal of Human Biology, 2006, 18, 51-58.	1.6	56
31	High-intensity intermittent running training improves pulmonary function and alters exercise breathing pattern in children. European Journal of Applied Physiology, 2005, 94, 415-423.	2.5	55
32	Yo-Yo intermittent recovery test versus the UniversitÃ© de MontrÃ©al Track Test: Relation with a high-intensity intermittent exercise. Journal of Science and Medicine in Sport, 2010, 13, 146-150.	1.3	50
33	High-intensity interval training in overweight and obese children and adolescents: systematic review and meta-analysis. Journal of Sports Medicine and Physical Fitness, 2019, 59, 310-324.	0.7	50
34	Workload and nonâ€contact injury incidence in elite football players competing in European leagues. European Journal of Sport Science, 2018, 18, 1280-1287.	2.7	49
35	Effect of Short Recovery Intensities on the Performance during Two Wingate Tests. Medicine and Science in Sports and Exercise, 2007, 39, 1170-1176.	0.4	48
36	Is aerobic endurance a determinant of cardiac autonomic regulation?. European Journal of Applied Physiology, 2007, 100, 363-369.	2.5	48

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37	Reliability and sensitivity of a simple isometric posterior lower limb muscle test in professional football players. Journal of Sports Sciences, 2015, 33, 1298-1304.	2.0	48
38	Effect of Training and Detraining on Heart Rate Variability in Healthy Young Men. International Journal of Sports Medicine, 2007, 28, 564-570.	1.7	45
39	Influence of recovery mode (passive vs. active) on time spent at maximal oxygen uptake during an intermittent session in young and endurance-trained athletes. European Journal of Applied Physiology, 2006, 99, 133-142.	2.5	44
40	Physical performance and subjective ratings after a soccer-specific exercise simulation: Comparison of natural grass versus artificial turf. Journal of Sports Sciences, 2013, 31, 529-536.	2.0	43
41	Effects of a playground marking intervention on school recess physical activity in French children. Preventive Medicine, 2013, 57, 580-584.	3.4	41
42	BDNF, IGF-I, Glucose and Insulin during Continuous and Interval Exercise in Type 1 Diabetes. International Journal of Sports Medicine, 2015, 36, 955-959.	1.7	38
43	Early Endothelial Dysfunction in Type 1 Diabetes Is Accompanied by an Impairment of Vascular Smooth Muscle Function: A Meta-Analysis. Frontiers in Endocrinology, 2020, 11, 203.	3.5	35
44	Comparison of Maximal Aerobic Speed as Assessed with Laboratory and Field Measurements in Moderately Trained Subjects. International Journal of Sports Medicine, 1996, 17, 525-529.	1.7	34
45	Time Spent at VË™O2max: a Methodological Issue. International Journal of Sports Medicine, 2003, 24, 291-297.	1.7	34
46	Critical velocity during continuous and intermittent exercises in children. European Journal of Applied Physiology, 2006, 98, 132-138.	2.5	33
47	Objectively assessed recess physical activity in girls and boys from high and low socioeconomic backgrounds. BMC Public Health, 2014, 14, 192.	2.9	33
48	Effects of a Short-Term Interval Training Program on Physical Fitness in Prepubertal Children. Journal of Strength and Conditioning Research, 2004, 18, 708.	2.1	33
49	Time Spent at a High Percentage of max for Short Intermittent Runs: Active Versus Passive Recovery. Applied Physiology, Nutrition, and Metabolism, 2004, 29, S3-S16.	1.7	32
50	Neurotrophins and cognitive functions in T1D compared with healthy controls: effects of a high-intensity exercise. Applied Physiology, Nutrition and Metabolism, 2015, 40, 20-27.	1.9	32
51	Are Intensified Physical Education Sessions Able to Elicit Heart Rate at a Sufficient Level to Promote Aerobic Fitness in Adolescents?. Research Quarterly for Exercise and Sport, 2002, 73, 282-288.	1.4	31
52	Exercise flow-volume loops in prepubescent aerobically trained children. Journal of Applied Physiology, 2005, 99, 1912-1921.	2.5	24
53	Evidence of Ventilatory Constraints in Healthy Exercising Prepubescent Children. Pediatric Pulmonology, 2006, 41, 133-140.	2.0	24
54	Is there any relationship between physical activity level and patterns, and physical performance in children?. International Journal of Behavioral Nutrition and Physical Activity, 2011, 8, 122.	4.6	23

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55	Beetroot Juice Does Not Enhance Supramaximal Intermittent Exercise Performance in Elite Endurance Athletes. Journal of the American College of Nutrition, 2019, 38, 729-738.	1.8	23
56	Muscle Oxygen Supply and Use in Type 1 Diabetes, From Ambient Air to the Mitochondrial Respiratory Chain: Is There a Limiting Step?. Diabetes Care, 2020, 43, 209-218.	8.6	22
57	Respiratory Muscle Deoxygenation and Ventilatory Threshold Assessments Using Near Infrared Spectroscopy in Children. International Journal of Sports Medicine, 2005, 26, 576-582.	1.7	21
58	The Effect of a One-Leg Cycling Aerobic Training Program During the Rehabilitation Period in Soccer Players With Anterior Cruciate Ligament Reconstruction. Clinical Journal of Sport Medicine, 2010, 20, 28-33.	1.8	20
59	Faster pulmonary oxygen uptake kinetics in children vs adults due to enhancements in oxygen delivery and extraction. Scandinavian Journal of Medicine and Science in Sports, 2013, 23, 705-712.	2.9	20
60	Critical Velocity and Anaerobic Distance Capacity in Prepubertal Children. Applied Physiology, Nutrition, and Metabolism, 2003, 28, 561-575.	1.7	19
61	Plasma lactate and plasma volume recovery in adults and children following highâ€intensity exercises. Acta Paediatrica, International Journal of Paediatrics, 2003, 92, 283-290.	1.5	19
62	Physical activity patterns in French youthâ€"From childhood to adolescenceâ€"Monitored with highâ€frequency accelerometry. American Journal of Human Biology, 2011, 23, 353-358.	1.6	19
63	Evidence of Exercise-Induced Arterial Hypoxemia in Prepubescent Trained Children. Pediatric Research, 2004, 55, 674-681.	2.3	18
64	Influence of recovery intensity on time spent at maximal oxygen uptake during an intermittent session in young, endurance-trained athletes. Journal of Sports Sciences, 2008, 26, 1313-1321.	2.0	18
65	Increasing O-GlcNAcylation Level on Organ Culture of Soleus Modulates the Calcium Activation Parameters of Muscle Fibers. PLoS ONE, 2012, 7, e48218.	2.5	18
66	Two months of endurance training does not alter diastolic function evaluated by TDI in 9-11-year-old boys and girls. British Journal of Sports Medicine, 2008, 43, 132-135.	6.7	17
67	Heterogeneity of muscle deoxygenation kinetics during two bouts of repeated heavy exercises. European Journal of Applied Physiology, 2010, 109, 1047-1057.	2.5	16
68	Specific Left Ventricular Twist-Untwist Mechanics during Exercise in Children. Journal of the American Society of Echocardiography, 2013, 26, 1298-1305.	2.8	15
69	Workload and injury incidence in elite football academy players. Journal of Sports Sciences, 2019, 37, 2768-2773.	2.0	15
70	Critical power in adolescent boys and girls â€" an exploratory study. Applied Physiology, Nutrition and Metabolism, 2008, 33, 1105-1111.	1.9	14
71	An Exercise Therapy Program Can Increase Oxygenation and Blood Volume of the Erector Spinae Muscle During Exercise in Chronic Low Back Pain Patients. Archives of Physical Medicine and Rehabilitation, 2013, 94, 536-542.	0.9	14
72	Longitudinal Follow-Up of Physical Activity During School Recess: Impact of Playground Markings. Frontiers in Public Health, 2018, 6, 283.	2.7	14

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73	Workload monotony, strain and non-contact injury incidence in professional football players. Science and Medicine in Football, 2019, 3, 105-108.	2.0	14
74	Cannabidiol in sport: Ergogenic or else?. Pharmacological Research, 2020, 156, 104764.	7.1	14
75	Evidence of Exercise-Induced O2Arterial Desaturation in Non-Elite Sportsmen and Sportswomen Following High-Intensity Interval-Training. International Journal of Sports Medicine, 2004, 25, 6-13.	1.7	13
76	Effects of Knee Surgery on Cardiac Function in Soccer Players. American Journal of Physical Medicine and Rehabilitation, 2007, 86, 45-49.	1.4	13
77	Exercise testing in children: Comparison in ventilatory thresholds changes with intervalâ€training. Pediatric Pulmonology, 2013, 48, 809-816.	2.0	13
78	One-Leg Cycling Versus Arm Cranking: Which is Most Appropriate for Physical Conditioning After Knee Surgery?. Archives of Physical Medicine and Rehabilitation, 2008, 89, 508-512.	0.9	12
79	Correspondences between continuous and intermittent exercises intensities in healthy prepubescent children. European Journal of Applied Physiology, 2010, 108, 977-985.	2.5	12
80	Plasma lactate and plasma volume recovery in adults and children following high-intensity exercises. Acta Paediatrica, International Journal of Paediatrics, 2003, 92, 283-290.	1.5	12
81	Maximal Aerobic Speed and Running Time to Exhaustion for Children 6 to 17 Years Old. Pediatric Exercise Science, 1996, 8, 234-244.	1.0	11
82	Reproducibility of Measurement of Muscle Deoxygenation in Children During Exercise. Pediatric Exercise Science, 2010, 22, 183-194.	1.0	11
83	Assessment of Child-Specific Aerobic Fitness and Anaerobic Capacity by the Use of the Power-Time Relationships Constants. Pediatric Exercise Science, 2010, 22, 454-466.	1.0	11
84	Effect of a 12-week training programme on Maximal Aerobic Speed (MAS) and running time to exhaustion at 100% of MAS for students aged 14 to 17 years. Journal of Sports Medicine and Physical Fitness, 1995, 35, 251-6.	0.7	11
85	Predicting sprint kinematic parameters from anaerobic field tests in physical education students. Journal of Strength and Conditioning Research, 2001, 15, 75-80.	2.1	11
86	The Effect of In-Season, High-Intensity Interval Training in Soccer Players. Journal of Strength and Conditioning Research, 2004, 18, 584-589.	2.1	10
87	Physiological and Perceived Exertion Responses at Intermittent Critical Power and Intermittent Maximal Lactate Steady State. Journal of Strength and Conditioning Research, 2011, 25, 2053-2058.	2.1	9
88	Recovery after an Intermittent Test. International Journal of Sports Medicine, 2013, 34, 554-558.	1.7	9
89	Minimizing the Risk of Exercise-Induced Glucose Fluctuations in People Living With Type 1 Diabetes Using Continuous Subcutaneous Insulin Infusion: An Overview of Strategies. Canadian Journal of Diabetes, 2021, 45, 666-676.	0.8	9
90	Effects of Different Types of Acute and Chronic (Training) Exercise on Glycaemic Control in Type 1 Diabetes Mellitus. Sports Medicine, 2012, 42, 1059-1080.	6.5	8

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91	Effets des variations du volume plasmatique sur les concentrations de lactate et leur cinÃ©tique de rÃ©cupÃ©ration aprÃ¨s des exercices maximaux et supramaximaux. Science and Sports, 2000, 15, 31-39.	0.5	7
92	Effects of Modified Multistage Field Test on Performance and Physiological Responses in Wheelchair Basketball Players. BioMed Research International, 2015, 2015, 1-7.	1.9	7
93	Predicting Sprint Kinematic Parameters From Anaerobic Field Tests in Physical Education Students. Journal of Strength and Conditioning Research, 2001, 15, 75.	2.1	7
94	Plasma asymmetric dimethylarginine concentrations are not related to differences in maximal oxygen uptake in endurance trained and untrained men. Experimental Physiology, 2019, 104, 254-263.	2.0	6
95	Plasma lactate recovery from maximal exercise with correction for variations in plasma volume. Journal of Sports Medicine and Physical Fitness, 2002, 42, 26-30.	0.7	6
96	Application du concept de puissance critique Ã diffÃ©rentes populations. Science and Sports, 2008, 23, 206-215.	0.5	5
97	Time to Exhaustion and Time Spent at a High Percentage of VÌ‡o2max in Severe Intensity Domain in Children and Adults. Journal of Strength and Conditioning Research, 2011, 25, 1151-1158.	2.1	5
98	Validation and reliability of the Dutch language version of the Modifiable Activity Questionnaire in healthy subjects. Sport Sciences for Health, 2013, 9, 139-144.	1.3	5
99	Cardiorespiratory Responses to Continuous and Intermittent Exercises in Children. International Journal of Sports Medicine, 2017, 38, 755-762.	1.7	5
100	Effect of a 15% Increase in Preferred Pedal Rate on Time to Exhaustion During Heavy Exercise. Applied Physiology, Nutrition, and Metabolism, 2004, 29, 146-156.	1.7	4
101	Effect of One-Leg Cycling Aerobic Training in Amateur Soccer Players After Anterior Cruciate Ligament Reconstruction. American Journal of Physical Medicine and Rehabilitation, 2009, 88, 362-368.	1.4	4
102	Commentaries on Viewpoint: Do oxidative and anaerobic energy production in exercising muscle change throughout growth and maturation?. Journal of Applied Physiology, 2010, 109, 1565-1566.	2.5	4
103	Active Versus Passive Recovery in High-Intensity Intermittent Exercises in Children: An Exploratory Study. Pediatric Exercise Science, 2019, 31, 248-253.	1.0	4
104	Validity of the UniversitÃ© de MontrÃ©al Track Test to assess the velocity associated with peak oxygen uptake for adolescents. Journal of Sports Medicine and Physical Fitness, 1999, 39, 107-12.	0.7	4
105	There is no anaerobic work capacity replenishment at critical power intensity: An indirect evidence. Science and Sports, 2008, 23, 244-247.	0.5	3
106	In Amateur Athletes With Type 1 Diabetes, a 9-Day Period of Cycling at Moderate-to-Vigorous Intensity Unexpectedly Increased the Time Spent in Hyperglycemia, Which Was Associated With Impairment in Heart Rate Variability. Diabetes Care, 2020, 43, 2564-2573.	8.6	3
107	Relation entre le temps limite de course et l'intensitÃ© relative de l'exercice, exprimÃ©e en fonction de la vitesse critique et de la vitesse maximale. Science and Sports, 2000, 15, 242-244.	0.5	2
108	Effets d'une rÃ©Ã©ducation suite ÃÂuneÂligamentoplastie deÂgenou surÂlesÂparamÃ¨tres cardiaques chezÂleÂfootballeur. Science and Sports, 2006, 21, 294-296.	0.5	2

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109	Effet de lâ€™entraÃ®nement aÃ©robie sur la variabilitÃ© de la frÃ©quence cardiaque au repos. Science and Sports, 2009, 24, 128-136.	0.5	2
110	ReproductibilitÃ© de la performance lors dâ€™un test de rÃ©pÃ©tition de sprints. Science and Sports, 2012, 27, 46-49.	0.5	2
111	Circulating biomarkers of nitric oxide bioactivity and impaired muscle vasoreactivity to exercise in adults with uncomplicated type 1 diabetes. Diabetologia, 2021, 64, 325-338.	6.3	2
112	724-P: Timing of Basal Insulin Reduction to Prevent Hypoglycemia during Exercise in Adults and Adolescents with Type 1 Diabetes Using Insulin Pump Therapy: Preliminary Results. Diabetes, 2019, 68, .	0.6	2
113	FrÃ©quence cardiaque chez des adolescents Ã¢gÃ©s de 11 Ã 16 ans lors de sÃ©ances d'Ã©ducation physique intensifiÃ©es. Science and Sports, 2001, 16, 48-50.	0.5	1
114	Predicting Sprint Kinematic Parameters From Anaerobic Field Tests in Physical Education Students. Journal of Strength and Conditioning Research, 2001, 15, 75-80.	2.1	1
115	Heart Rate Variability before and after Knee Surgery in Amateur Soccer Players. Journal of Sport Rehabilitation, 2007, 16, 336-342.	1.0	1
116	ArrÃªt de lâ€™entraÃ®nement et dÃ©conditionnement Ã lâ€™effort aÃ©robie. Science and Sports, 2008, 23, 136-144.	0.5	1
117	Effets dâ€™un entraÃ®nement en endurance Ã partir dâ€™un pÃ©dalage unilatÃ©ral sur lâ€™oxygÃ©nation et le volume sanguin musculaire aprÃ¨s chirurgie du genou. Science and Sports, 2009, 24, 323-326.	0.5	1
118	Effet d'un interval-training supra-maximal sur l'apparition d'une hypoxÃ©mie d'exercice chez des sportifs non-spÃ©cialistes de l'endurance. Science and Sports, 2003, 18, 43-45.	0.5	0
119	Puissance critique de lâ€™enfant prÃ©pubÃ¨re et de lâ€™adulte. Science and Sports, 2008, 23, 252-254.	0.5	0
120	Respiratory responses and rating of perceived exertion of severely obese adolescents during continuous and intermittent graded walking protocols: Application to cardiorespiratory field tests. Journal of Sports Sciences, 2020, 38, 1009-1017.	2.0	0
121	Reproducibility Of Near Infra-red Spectroscopy In Children. Medicine and Science in Sports and Exercise, 2008, 40, S21-S22.	0.4	0
122	Correspondence Between Continuous And Intermittent Exercise Intensities In Healthy Prepubescent Children. Medicine and Science in Sports and Exercise, 2008, 40, S461.	0.4	0
123	Time Spent At High Percentage Of Vo2max In Children And Adults. Medicine and Science in Sports and Exercise, 2008, 40, S22.	0.4	0
124	Effects of Different Types of Exercise on the Cognitive Function in Type 1 Diabetes.. Medicine and Science in Sports and Exercise, 2014, 46, 546.	0.4	0