

Bart Roelands

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

4,016
citations

168829

31
h-index

145109

60
g-index

104
all docs

104
docs citations

104
times ranked

4464
citing authors

#	ARTICLE	IF	CITATIONS
1	The Physiological Nature of Mental Fatigue: Current Knowledge and Future Avenues for Sport Science. <i>International Journal of Sports Physiology and Performance</i> , 2022, 17, 149-150.	1.1	11
2	Characteristics of Official Wheelchair Basketball Games in Hot and Temperate Conditions. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 1250.	1.2	2
3	Lessons From Special Forces Operators for Elite Team Sports Training: How to Make the Whole Greater Than the Sum of the Parts. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 780767.	0.9	6
4	Reproducibility of 20-min Time-trial Performance on a Virtual Cycling Platform. <i>International Journal of Sports Medicine</i> , 2022, 43, 1190-1195.	0.8	2
5	How to Tackle Mental Fatigue: A Systematic Review of Potential Countermeasures and Their Underlying Mechanisms. <i>Sports Medicine</i> , 2022, 52, 2129-2158.	3.1	25
6	A drop in cognitive performance, whodunit? Subjective mental fatigue, brain deactivation or increased parasympathetic activity? It's complicated!. <i>Cortex</i> , 2022, 155, 30-45.	1.1	16
7	Fluid Balance and Thermoregulatory Responses during Wheelchair Basketball Games in Hot vs. Temperate Conditions. <i>Nutrients</i> , 2022, 14, 2930.	1.7	3
8	Endurance exercise-induced and mental fatigue and the brain. <i>Experimental Physiology</i> , 2021, 106, 2294-2298.	0.9	33
9	Mental Fatigue and Sport-Specific Psychomotor Performance: A Systematic Review. <i>Sports Medicine</i> , 2021, 51, 1527-1548.	3.1	54
10	The Thermoregulatory and Thermal Responses of Individuals With a Spinal Cord Injury During Exercise, Acclimation and by Using Cooling Strategies—A Systematic Review. <i>Frontiers in Physiology</i> , 2021, 12, 636997.	1.3	16
11	Impact of a Carbohydrate Mouth Rinse on Corticomotor Excitability after Mental Fatigue in Healthy College-Aged Subjects. <i>Brain Sciences</i> , 2021, 11, 972.	1.1	5
12	How Mentally Fatiguing Are Consecutive World Padel Tour Matches?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9059.	1.2	20
13	Prefrontal Cortex Oxygenation During Endurance Performance: A Systematic Review of Functional Near-Infrared Spectroscopy Studies. <i>Frontiers in Physiology</i> , 2021, 12, 761232.	1.3	14
14	029â€¦Does acute fatigue negatively affect the lower extremity injury risk profile? A systematic and critical review. , 2021, , .		1
15	032â€¦Does mental fatigue negatively affect functional performance tests used to screen for lower extremity injury risk?. , 2021, , .		1
16	Mental Fatigue-Associated Decrease in Table Tennis Performance: Is There an Electrophysiological Signature?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12906.	1.2	19
17	Incorporating methods and findings from neuroscience to better understand placebo and nocebo effects in sport. <i>European Journal of Sport Science</i> , 2020, 20, 313-325.	1.4	14
18	The Placebo and Nocebo effect on sports performance: A systematic review. <i>European Journal of Sport Science</i> , 2020, 20, 279-292.	1.4	64

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19	Can Creatine Combat the Mental Fatigue-associated Decrease in Visuomotor Skills?. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 120-130.	0.2	48
20	Does Acute Fatigue Negatively Affect Intrinsic Risk Factors of the Lower Extremity Injury Risk Profile? A Systematic and Critical Review. <i>Sports Medicine</i> , 2020, 50, 767-784.	3.1	47
21	Does Mental Fatigue Negatively Affect Outcomes of Functional Performance Tests?. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 2002-2010.	0.2	27
22	Mental fatigue impairs clinician-friendly balance test performance and brain activity. <i>Translational Sports Medicine</i> , 2020, 3, 616-625.	0.5	14
23	Combined reply to comments on: Van Cutsem, J., Roelands, B., De Pauw, K., Meeusen, R., & Marcora, S. (2019). Subjective thermal strain impairs endurance performance in a temperate environment. <i>Physiology & Behavior</i> , 202, 36-44.. <i>Physiology and Behavior</i> , 2020, 221, 112880.	1.0	0
24	Improved 1000-m Running Performance and Pacing Strategy With Caffeine and Placebo: A Balanced Placebo Design Study. <i>International Journal of Sports Physiology and Performance</i> , 2020, 15, 483-488.	1.1	14
25	The Placebo Effect in Sport: How Practitioners Can Inject Words to Improve Performance. <i>International Journal of Sports Physiology and Performance</i> , 2020, 15, 765-766.	1.1	8
26	Guidelines and Recommendations to Investigate the Efficacy of a Lower-Limb Prosthetic Device: A Systematic Review. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2019, 1, 279-296.	2.1	15
27	Mental fatigue impairs visuomotor response time in badminton players and controls. <i>Psychology of Sport and Exercise</i> , 2019, 45, 101579.	1.1	32
28	Impact of a Carbohydrate Mouth Rinse on Quadriceps Muscle Function and Corticomotor Excitability. <i>International Journal of Sports Physiology and Performance</i> , 2019, 14, 927-933.	1.1	9
29	Subjective thermal strain impairs endurance performance in a temperate environment. <i>Physiology and Behavior</i> , 2019, 202, 36-44.	1.0	12
30	Evaluation of cognitive performance and neurophysiological function during repeated immersion in cold water. <i>Brain Research</i> , 2019, 1718, 1-9.	1.1	9
31	Cognitive performance and brain dynamics during walking with a novel bionic foot: A pilot study. <i>PLoS ONE</i> , 2019, 14, e0214711.	1.1	7
32	Submaximal heart rate seems inadequate to prescribe and monitor intensified training. <i>European Journal of Sport Science</i> , 2019, 19, 1082-1091.	1.4	5
33	Training Level Does Not Affect The Negative Effect Of Mental Fatigue On Visuomotor Performance.. <i>Medicine and Science in Sports and Exercise</i> , 2019, 51, 637-637.	0.2	0
34	Technological Impact on Human Performance. <i>International Journal of Sports Physiology and Performance</i> , 2019, 14, 1.	1.1	6
35	The Overtraining Syndrome in Soldiers: Insights from the Sports Domain. <i>Military Medicine</i> , 2019, 184, e192-e200.	0.4	18
36	The efficacy of the Ankle Mimicking Prosthetic Foot prototype 4.0 during walking. <i>Prosthetics and Orthotics International</i> , 2018, 42, 504-510.	0.5	13

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37	Acute Effect of Noradrenergic Modulation on Motor Output Adjustment in Men. <i>Medicine and Science in Sports and Exercise</i> , 2018, 50, 1579-1587.	0.2	7
38	Impairment of exercise performance following cold water immersion is not attenuated after 7 days of cold acclimation. <i>European Journal of Applied Physiology</i> , 2018, 118, 1189-1197.	1.2	6
39	Fatigue: Is it all neurochemistry?. <i>European Journal of Sport Science</i> , 2018, 18, 37-46.	1.4	49
40	From the midnight sun to the longest night: Sleep in Antarctica. <i>Sleep Medicine Reviews</i> , 2018, 37, 159-172.	3.8	34
41	Mental Fatigue and Physical and Cognitive Performance During a 2-Bout Exercise Test. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 510-516.	1.1	29
42	Changes in Choice Reaction Time During and After 8 Days Exhaustive Cycling Are Not Related to Changes in Physical Performance. <i>International Journal of Sports Physiology and Performance</i> , 2018, 13, 428-433.	1.1	5
43	A caffeine-maltodextrin mouth rinse counters mental fatigue. <i>Psychopharmacology</i> , 2018, 235, 947-958.	1.5	57
44	Repeated-sprints exercise in daylight fasting: carbohydrate mouth rinsing does not affect sprint and reaction time performance. <i>Biology of Sport</i> , 2018, 35, 237-244.	1.7	10
45	Multi-dimensional flow cytometry analysis reveals increasing changes in the systemic neutrophil compartment during seven consecutive days of endurance exercise. <i>PLoS ONE</i> , 2018, 13, e0206175.	1.1	14
46	Drive in Sports: How Mental Fatigue Affects Endurance Performance. <i>Frontiers in Psychology</i> , 2018, 9, 1383.	1.1	36
47	Consensus statement on placebo effects in sports and exercise: The need for conceptual clarity, methodological rigour, and the elucidation of neurobiological mechanisms. <i>European Journal of Sport Science</i> , 2018, 18, 1383-1389.	1.4	59
48	Do Glucose and Caffeine Nasal Sprays Influence Exercise or Cognitive Performance?. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 1186-1191.	1.1	9
49	Effects of Mental Fatigue on Endurance Performance in the Heat. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1677-1687.	0.2	48
50	Repeated Sprints in Fasted State Impair Reaction Time Performance. <i>Journal of the American College of Nutrition</i> , 2017, 36, 210-217.	1.1	7
51	The Effects of Mental Fatigue on Physical Performance: A Systematic Review. <i>Sports Medicine</i> , 2017, 47, 1569-1588.	3.1	472
52	Does A Mentally Demanding Cognitive Task Influence Motor Reaction Time?. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 672.	0.2	1
53	Cold acclimation and cognitive performance: A review. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2017, 208, 36-42.	1.4	24
54	Carbohydrate Mouth Rinsing Procedure during Repeated-sprints Exercise in Fasted State. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 961.	0.2	0

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55	Three Days of Intermittent Fasting: Repeated-Sprint Performance Decreased by Vertical-Stiffness Impairment. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, 287-294.	1.1	18
56	Prediction of Functional Overreaching From Subjective Fatigue and Readiness to Train After Only 3 Days of Cycling. <i>International Journal of Sports Physiology and Performance</i> , 2017, 12, S2-87-S2-94.	1.1	63
57	Refining Selection for Elite Troops by Predicting Military Training Outcome. <i>Aerospace Medicine and Human Performance</i> , 2017, 88, 850-857.	0.2	2
58	Cold Acclimation Does Not Alter Physiological or Perceptual Responses During Subsequent Exercise in the Heat. <i>Military Medicine</i> , 2017, 182, e1958-e1964.	0.4	5
59	Repeated Immersion in Cold Water Does Not Alter Physiological Responses to Exercise in the Heat. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 559.	0.2	0
60	Sustained Military Operations and Cognitive Performance. <i>Aerospace Medicine and Human Performance</i> , 2016, 87, 718-727.	0.2	40
61	Does Mental Fatigue Alter Core And Skin Temperature In The Heat?. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 123.	0.2	0
62	Deterioration of Cognitive Function During Cold Water Immersion is not Changed Following Repeated Exposure. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 565.	0.2	0
63	Noradrenaline Reuptake Inhibition Impairs Cortical Output and Limits Endurance Time. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 1014-1023.	0.2	24
64	Effects of Intermittent Fasting, Caloric Restriction, and Ramadan Intermittent Fasting on Cognitive Performance at Rest and During Exercise in Adults. <i>Sports Medicine</i> , 2016, 46, 35-47.	3.1	74
65	Neurotrophins and cognitive functions in T1D compared with healthy controls: effects of a high-intensity exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2015, 40, 20-27.	0.9	32
66	The influence of a mild thermal challenge and severe hypoxia on exercise performance and serum BDNF. <i>European Journal of Applied Physiology</i> , 2015, 115, 2135-2148.	1.2	18
67	Consensus Recommendations on Training and Competing in the Heat. <i>Sports Medicine</i> , 2015, 45, 925-938.	3.1	70
68	Neurophysiological effects of exercise in the heat. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2015, 25, 65-78.	1.3	26
69	Author's Reply to Brocherie and Millet: Is the Wet-Bulb Globe Temperature (WBGT) Index Relevant for Exercise in the Heat?. <i>Sports Medicine</i> , 2015, 45, 1623-1624.	3.1	6
70	Topic 3. Nutrition and the brain. , 2015, , 47-56.		0
71	Type 1 diabetes-associated cognitive decline: A meta-analysis and update of the current literature $1\hat{a}\hat{z}\langle\hat{c}^3-\hat{a}^{\circ}\hat{z}\hat{c}-\hat{0}:\hat{c}\rangle,\hat{a}\dots^3\hat{c}\hat{s},\hat{e}^{\circ}\hat{c}\hat{Y}\hat{r}\hat{e}\hat{f}$ <i>Journal of Diabetes</i> , 2014, 6, 499-513.		111
72	Cardiac reactivity and preserved performance under stress: Two sides of the same coin?. <i>International Journal of Psychophysiology</i> , 2014, 93, 30-37.	0.5	7

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73	Effect of Recovery Interventions on Cycling Performance and Pacing Strategy in the Heat. International Journal of Sports Physiology and Performance, 2014, 9, 240-248.	1.1	10
74	Effects of Different Types of Exercise on the Cognitive Function in Type 1 Diabetes.. Medicine and Science in Sports and Exercise, 2014, 46, 546.	0.2	0
75	Caffeine, Exercise and the Brain. Nestle Nutrition Institute Workshop Series, 2013, 76, 1-12.	1.5	62
76	Neurophysiological Determinants of Theoretical Concepts and Mechanisms Involved in Pacing. Sports Medicine, 2013, 43, 301-311.	3.1	128
77	Validation and reliability of the Dutch language version of the Modifiable Activity Questionnaire in healthy subjects. Sport Sciences for Health, 2013, 9, 139-144.	0.4	5
78	Brain mapping after prolonged cycling and during recovery in the heat. Journal of Applied Physiology, 2013, 115, 1324-1331.	1.2	27
79	Guidelines to Classify Subject Groups in Sport-Science Research. International Journal of Sports Physiology and Performance, 2013, 8, 111-122.	1.1	473
80	Effect of Recovery Interventions on Cycling Performance and Pacing Strategy in the Heat. International Journal of Sports Physiology and Performance, 2013, , .	1.1	1
81	Effects of Noradrenaline and Dopamine on Supraspinal Fatigue in Well-Trained Men. Medicine and Science in Sports and Exercise, 2012, 44, 2299-2308.	0.2	64
82	Caffeine, dopamine and thermoregulation. European Journal of Applied Physiology, 2012, 112, 1979-1980.	1.2	6
83	Effects of Different Types of Acute and Chronic (Training) Exercise on Glycaemic Control in Type 1 Diabetes Mellitus. Sports Medicine, 2012, 42, 1059-1080.	3.1	8
84	Influence of citalopram and environmental temperature on exercise-induced changes in BDNF. Neuroscience Letters, 2011, 494, 150-154.	1.0	46
85	No effect of caffeine on exercise performance in high ambient temperature. European Journal of Applied Physiology, 2011, 111, 3089-3095.	1.2	51
86	Effect of Five Different Recovery Methods on Repeated Cycle Performance. Medicine and Science in Sports and Exercise, 2011, 43, 890-897.	0.2	19
87	Strength training does not influence serum brain-derived neurotrophic factor. European Journal of Applied Physiology, 2010, 110, 285-293.	1.2	124
88	Does a period of detraining cause a decrease in serum brain-derived neurotrophic factor?. Neuroscience Letters, 2010, 486, 146-149.	1.0	27
89	Alterations in Central Fatigue by Pharmacological Manipulations of Neurotransmitters in Normal and High Ambient Temperature. Sports Medicine, 2010, 40, 229-246.	3.1	102
90	Performance and thermoregulatory effects of chronic bupropion administration in the heat. European Journal of Applied Physiology, 2009, 105, 493-498.	1.2	39

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91	Time trial performance in normal and high ambient temperature: is there a role for 5-HT?. European Journal of Applied Physiology, 2009, 107, 119-126.	1.2	40
92	Acute norepinephrine reuptake inhibition decreases performance in normal and high ambient temperature. Journal of Applied Physiology, 2008, 105, 206-212.	1.2	78
93	The Effects of Acute Dopamine Reuptake Inhibition on Performance. Medicine and Science in Sports and Exercise, 2008, 40, 879-885.	0.2	137
94	No Influence of Noradrenaline Manipulation on Acute Exercise-Induced Increase of Brain-Derived Neurotrophic Factor. Medicine and Science in Sports and Exercise, 2008, 40, 1990-1996.	0.2	50
95	Effects Of Chronic Dopamine/noradrenaline Reuptake Inhibition On Performance, Thermoregulation And Hormonal Parameters. Medicine and Science in Sports and Exercise, 2008, 40, S333.	0.2	0
96	No Influence Of Administration Of A Selective Noradrenaline Re-uptake Inhibitor On The Acute Exerciseinduced Increase In Serum Bdnf In Healthy Men. Medicine and Science in Sports and Exercise, 2008, 40, S299.	0.2	0
97	Brain neurotransmitters in fatigue and overtraining. Applied Physiology, Nutrition and Metabolism, 2007, 32, 857-864.	0.9	68
98	Central Fatigue. Sports Medicine, 2006, 36, 881-909.	3.1	319
99	Acute dopamine/noradrenaline reuptake inhibition enhances human exercise performance in warm, but not temperate conditions. Journal of Physiology, 2005, 565, 873-883.	1.3	177
100	Thème 3. La nutrition et le cerveau. , 0, , 47-57.		0
101	Reliability of a submaximal field-test in wheelchair rugby. International Journal of Sports Medicine, 0, 44, .	0.8	1