

# Stephane Perrey

## List of Publications by Year in descending order

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Version: 2024-02-01

210  
papers

6,682  
citations

71061

41  
h-index

88593

70  
g-index

244  
all docs

244  
docs citations

244  
times ranked

7089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-invasive NIR spectroscopy of human brain function during exercise. <i>Methods</i> , 2008, 45, 289-299.	1.9	261
2	Lipolysis of triglyceride-rich lipoproteins generates PPAR ligands: Evidence for an antiinflammatory role for lipoprotein lipase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2730-2735.	3.3	229
3	Severe Hypercholesterolemia, Hypertriglyceridemia, and Atherosclerosis in Mice Lacking Both Leptin and the Low Density Lipoprotein Receptor. <i>Journal of Biological Chemistry</i> , 2001, 276, 37402-37408.	1.6	194
4	Prefrontal cortex oxygenation and neuromuscular responses to exhaustive exercise. <i>European Journal of Applied Physiology</i> , 2007, 102, 153-163.	1.2	194
5	Decrease in heart rate variability with overtraining: assessment by the Poincare plot analysis. <i>Clinical Physiology and Functional Imaging</i> , 2004, 24, 10-18.	0.5	188
6	Absence of ACAT-1 Attenuates Atherosclerosis but Causes Dry Eye and Cutaneous Xanthomatosis in Mice with Congenital Hyperlipidemia. <i>Journal of Biological Chemistry</i> , 2000, 275, 21324-21330.	1.6	163
7	Quantitative Poincaré 1/2 plot analysis of heart rate variability: effect of endurance training. <i>European Journal of Applied Physiology</i> , 2004, 91, 79-87.	1.2	159
8	Aerobic Energy Cost and Sensation Responses During Submaximal Running Exercise - Positive Effects of Wearing Compression Tights. <i>International Journal of Sports Medicine</i> , 2006, 27, 373-378.	0.8	140
9	Muscle Deoxygenation and Neural Drive to the Muscle during Repeated Sprint Cycling. <i>Medicine and Science in Sports and Exercise</i> , 2007, 39, 268-274.	0.2	140
10	Comparison of oxygen uptake kinetics during concentric and eccentric cycle exercise. <i>Journal of Applied Physiology</i> , 2001, 91, 2135-2142.	1.2	138
11	Muscle Oximetry in Sports Science: A Systematic Review. <i>Sports Medicine</i> , 2018, 48, 597-616.	3.1	132
12	Sterol Regulatory Element-binding Protein-1 Is Regulated by Glucose at the Transcriptional Level. <i>Journal of Biological Chemistry</i> , 2000, 275, 31069-31077.	1.6	127
13	Does a Combination of Virtual Reality, Neuromodulation and Neuroimaging Provide a Comprehensive Platform for Neurorehabilitation? A Narrative Review of the Literature. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 284.	1.0	119
14	Embryonic Lethality and Defective Neural Tube Closure in Mice Lacking Squalene Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 30843-30848.	1.6	114
15	Monocarboxylate transporters, blood lactate removal after supramaximal exercise, and fatigue indexes in humans. <i>Journal of Applied Physiology</i> , 2005, 98, 804-809.	1.2	112
16	Relationships between maximal muscle oxidative capacity and blood lactate removal after supramaximal exercise and fatigue indexes in humans. <i>Journal of Applied Physiology</i> , 2004, 97, 2132-2138.	1.2	106
17	Overexpressed lipoprotein lipase protects against atherosclerosis in apolipoprotein E knockout mice. <i>Journal of Lipid Research</i> , 1999, 40, 1677-1685.	2.0	105
18	Effective Connectivity of Cortical Sensorimotor Networks During Finger Movement Tasks: A Simultaneous fNIRS, fMRI, EEG Study. <i>Brain Topography</i> , 2016, 29, 645-660.	0.8	94

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19	Effect of transcranial direct current stimulation on exercise performance: A systematic review and meta-analysis. <i>Brain Stimulation</i> , 2019, 12, 593-605.	0.7	91
20	Oxygen uptake kinetics during two bouts of heavy cycling separated by fatiguing sprint exercise in humans. <i>Journal of Applied Physiology</i> , 2003, 94, 533-541.	1.2	86
21	Cerebral perturbations during exercise in hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R903-R916.	0.9	86
22	Similar scaling of contralateral and ipsilateral cortical responses during graded unimanual force generation. <i>NeuroImage</i> , 2014, 85, 471-477.	2.1	84
23	The role of cocontraction in the impairment of movement accuracy with fatigue. <i>Experimental Brain Research</i> , 2008, 185, 151-156.	0.7	78
24	Neural and muscular adjustments following repeated running sprints. <i>European Journal of Applied Physiology</i> , 2010, 109, 1027-1036.	1.2	78
25	Failed Excitability of Spinal Motoneurons Induced by Prolonged Running Exercise. <i>Journal of Neurophysiology</i> , 2007, 97, 596-603.	0.9	75
26	Prefrontal cortex activity during motor tasks with additional mental load requiring attentional demand: A near-infrared spectroscopy study. <i>Neuroscience Research</i> , 2013, 76, 156-162.	1.0	75
27	Reproducibility assessment of metabolic variables characterizing muscle energetics in Vivo: A <sup>31</sup> P-MRS study. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 840-854.	1.9	63
28	MAXIMAL POWER, BUT NOT FATIGABILITY, IS GREATER DURING REPEATED SPRINTS PERFORMED IN THE AFTERNOON. <i>Chronobiology International</i> , 2010, 27, 855-864.	0.9	54
29	Cognitive functions and cerebral oxygenation changes during acute and prolonged hypoxic exposure. <i>Physiology and Behavior</i> , 2016, 164, 189-197.	1.0	54
30	The differential effects of prolonged exercise upon executive function and cerebral oxygenation. <i>Brain and Cognition</i> , 2017, 113, 133-141.	0.8	53
31	Effects of Transcranial Direct Current Stimulation of the Motor Cortex on Prefrontal Cortex Activation During a Neuromuscular Fatigue Task: An fNIRS Study. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 73-79.	0.8	53
32	Promoting Motor Function by Exercising the Brain. <i>Brain Sciences</i> , 2013, 3, 101-122.	1.1	52
33	Improved cerebral oxygenation response and executive performance as a function of cardiorespiratory fitness in older women: a fNIRS study. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 272.	1.7	52
34	Possibilities for examining the neural control of gait in humans with fNIRS. <i>Frontiers in Physiology</i> , 2014, 5, 204.	1.3	50
35	Adaptations of Motor Neural Structures' Activity to Lapses in Attention. <i>Cerebral Cortex</i> , 2015, 25, 66-74.	1.6	50
36	Less Effort, Better Results: How Does Music Act on Prefrontal Cortex in Older Adults during Verbal Encoding? An fNIRS Study. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 301.	1.0	49

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37	Cognitive benefits of exercise interventions: an fMRI activation likelihood estimation meta-analysis. <i>Brain Structure and Function</i> , 2021, 226, 601-619.	1.2	49
38	Field Testing of in Cross-Country Skiers With Portable Breath-by-Breath System. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2001, 26, 1-11.	1.7	48
39	NIRS-measured prefrontal cortex activity in neuroergonomics: strengths and weaknesses. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 583.	1.0	48
40	Changes in Voluntary Activation Assessed by Transcranial Magnetic Stimulation during Prolonged Cycling Exercise. <i>PLoS ONE</i> , 2014, 9, e89157.	1.1	48
41	Faster oxygen uptake kinetics at the onset of submaximal cycling exercise following 4½ weeks recombinant human erythropoietin (r-HuEPO) treatment. <i>Pflügers Archiv European Journal of Physiology</i> , 2003, 447, 231-238.	1.3	45
42	Recurrence quantification analysis of surface electromyographic signal: Sensitivity to potentiation and neuromuscular fatigue. <i>Journal of Neuroscience Methods</i> , 2009, 177, 73-79.	1.3	45
43	Modulation in voluntary neural drive in relation to muscle soreness. <i>European Journal of Applied Physiology</i> , 2008, 102, 439-446.	1.2	44
44	Saving mental effort to maintain physical effort: a shift of activity within the prefrontal cortex in anticipation of prolonged exercise. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2017, 17, 305-314.	1.0	43
45	Efficiency of Vibrational Energy Dissipation by Moving Shot. <i>Journal of Structural Engineering</i> , 1993, 119, 2642-2652.	1.7	42
46	Altitude-Induced Changes in Muscle Contractile Properties. <i>High Altitude Medicine and Biology</i> , 2009, 10, 175-182.	0.5	41
47	NIRS-EEG joint imaging during transcranial direct current stimulation: Online parameter estimation with an autoregressive model. <i>Journal of Neuroscience Methods</i> , 2016, 274, 71-80.	1.3	41
48	Effect of Severe Hypoxia on Prefrontal Cortex and Muscle Oxygenation Responses at Rest and During Exhaustive Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 329-334.	0.8	40
49	Muscular fatigue increases signal-dependent noise during isometric force production. <i>Neuroscience Letters</i> , 2008, 437, 154-157.	1.0	39
50	Focal Hemodynamic Responses in the Stimulated Hemisphere During High-Definition Transcranial Direct Current Stimulation. <i>Neuromodulation</i> , 2018, 21, 348-354.	0.4	39
51	Towards a Near Infrared Spectroscopy-Based Estimation of Operator Attentional State. <i>PLoS ONE</i> , 2014, 9, e92045.	1.1	39
52	Accurate work-rate measurements during in vivo MRS studies of exercising human quadriceps. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2008, 21, 227-235.	1.1	38
53	Factors responsible for force steadiness impairment with fatigue. <i>Muscle and Nerve</i> , 2009, 40, 1019-1032.	1.0	38
54	Time-dependent effect of acute hypoxia on corticospinal excitability in healthy humans. <i>Journal of Neurophysiology</i> , 2012, 108, 1270-1277.	0.9	38

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55	Multimodal integration of fNIRS, fMRI and EEG neuroimaging. <i>Clinical Neurophysiology</i> , 2013, 124, 2060-2062.	0.7	35
56	Comments on Point:Counterpoint: Hypobaric hypoxia induces/does not induce different responses from normobaric hypoxia. <i>Journal of Applied Physiology</i> , 2012, 112, 1788-1794.	1.2	34
57	Effects of a prior high-intensity knee extension exercise on muscle recruitment and energy cost: a combined local and global investigation in humans. <i>Experimental Physiology</i> , 2009, 94, 704-719.	0.9	33
58	Comparative determination of energy production rates and mitochondrial function using different <sup>31</sup> P MRS quantitative methods in sedentary and trained subjects. <i>NMR in Biomedicine</i> , 2011, 24, 425-438.	1.6	33
59	Effects of Increasing Neuromuscular Electrical Stimulation Current Intensity on Cortical Sensorimotor Network Activation: A Time Domain fNIRS Study. <i>PLoS ONE</i> , 2015, 10, e0131951.	1.1	33
60	Studying brain activity in sports performance: Contributions and issues. <i>Progress in Brain Research</i> , 2018, 240, 247-267.	0.9	33
61	Validity of the Stryd Power Meter in Measuring Running Parameters at Submaximal Speeds. <i>Sports</i> , 2020, 8, 103.	0.7	33
62	Muscle chemoreflex elevates muscle blood flow and O2 uptake at exercise onset in nonischemic human forearm. <i>Journal of Applied Physiology</i> , 2001, 91, 2010-2016.	1.2	31
63	Effects of Anodal High-Definition Transcranial Direct Current Stimulation on Bilateral Sensorimotor Cortex Activation During Sequential Finger Movements: An fNIRS Study. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 351-359.	0.8	31
64	Cerebral Hemodynamic and Ventilatory Responses to Hypoxia, Hypercapnia, and Hypocapnia during 5 Days at 4,350 m. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 52-60.	2.4	30
65	Living Lab Falls-MACVIA-LR: The falls prevention initiative of the European Innovation Partnership on Active and Healthy Ageing (EIP on AHA) in Languedoc-Roussillon. <i>European Geriatric Medicine</i> , 2014, 5, 416-425.	1.2	30
66	Muscle, Prefrontal, and Motor Cortex Oxygenation Profiles During Prolonged Fatiguing Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 149-155.	0.8	29
67	MACVIA-LR, Reference site of the European Innovation Partnership on Active and Healthy Ageing (EIP on) Tj ETQq1 1.0.784314 rgBT / 1.2 29	1.2	29
68	Combining Internal- and External-Training-Loads to Predict Non-Contact Injuries in Soccer. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5261.	1.3	29
69	Changes in Prefrontal Cortical Activity During Walking and Cognitive Functions Among Patients With Parkinson's Disease. <i>Frontiers in Neurology</i> , 2020, 11, 601686.	1.1	29
70	Stretch-Shortening Cycle in Roller Ski Skating: Effects of Technique. <i>International Journal of Sports Medicine</i> , 1998, 19, 513-520.	0.8	28
71	Does the Mechanical Work in Running Change during the O2 Slow Component?. <i>Medicine and Science in Sports and Exercise</i> , 2003, 35, 50-57.	0.2	28
72	Adaptation of motor behavior to preserve task success in the presence of muscle fatigue. <i>Neuroscience</i> , 2009, 161, 773-786.	1.1	28

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73	Muscular Efficiency During Arm Cranking and Wheelchair Exercise: A Comparison. <i>International Journal of Sports Medicine</i> , 2002, 23, 408-414.	0.8	27
74	The promise of Near-Infrared Spectroscopy (NIRS) for psychological research: A brief review. <i>Annee Psychologique</i> , 2014, 114, 537-569.	0.2	27
75	Cardiovascular and Oxygen Uptake Kinetics During Sequential Heavy Cycling Exercises. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2003, 28, 283-298.	1.7	26
76	Oxygen Uptake Response to an 800-m Running Race. <i>International Journal of Sports Medicine</i> , 2005, 26, 268-273.	0.8	26
77	Comments on Point:Counterpoint: Afferent feedback from fatigued locomotor muscles is/is not an important determinant of endurance exercise performance. <i>Journal of Applied Physiology</i> , 2010, 108, 458-468.	1.2	26
78	CO2 Clamping, Peripheral and Central Fatigue during Hypoxic Knee Extensions in Men. <i>Medicine and Science in Sports and Exercise</i> , 2015, 47, 2513-2524.	0.2	26
79	Relationships Between Aerobic Energy Cost, Performance and Kinematic Parameters in Roller Ski Skating - Aerobic Energy Cost of Roller Ski Skating -. <i>International Journal of Sports Medicine</i> , 2002, 23, 191-195.	0.8	25
80	Time Course of Postactivation Potentiation During Intermittent Submaximal Fatiguing Contractions in Endurance- and Power-Trained Athletes. <i>Journal of Strength and Conditioning Research</i> , 2009, 23, 1456-1464.	1.0	25
81	Vastus lateralis oxygenation dynamics during maximal fatiguing concentric and eccentric isokinetic muscle actions. <i>Journal of Electromyography and Kinesiology</i> , 2011, 21, 276-282.	0.7	25
82	Commentaries on Viewpoint: The two-hour marathon: Who and when?. <i>Journal of Applied Physiology</i> , 2011, 110, 278-293.	1.2	25
83	Brain activation associated with eccentric movement: A narrative review of the literature. <i>European Journal of Sport Science</i> , 2018, 18, 75-82.	1.4	25
84	Regular Tai Chi Practice Is Associated With Improved Memory as Well as Structural and Functional Alterations of the Hippocampus in the Elderly. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 586770.	1.7	25
85	Utilizing slope method as an alternative data analysis for functional near-infrared spectroscopy-derived cerebral hemodynamic responses. <i>International Journal of Industrial Ergonomics</i> , 2013, 43, 335-341.	1.5	24
86	Why a Comprehensive Understanding of Mental Workload through the Measurement of Neurovascular Coupling Is a Key Issue for Neuroergonomics?. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 250.	1.0	24
87	Commentaries on Viewpoint: A role for the prefrontal cortex in exercise tolerance and termination. <i>Journal of Applied Physiology</i> , 2016, 120, 467-469.	1.2	24
88	Neuromuscular Fatigue during Prolonged Exercise in Hypoxia. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 430-439.	0.2	24
89	Dynamics of the human brain network revealed by time-frequency effective connectivity in fNIRS. <i>Biomedical Optics Express</i> , 2017, 8, 5326.	1.5	24
90	Evaluation of Fitness Level by the Oxygen Uptake Efficiency Slope After a Short-Term Intermittent Endurance Training. <i>International Journal of Sports Medicine</i> , 2004, 25, 85-91.	0.8	23

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91	Influence of back muscle fatigue on lumbar reflex adaptation during sudden external force perturbations. <i>Journal of Electromyography and Kinesiology</i> , 2010, 20, 426-432.	0.7	23
92	Degraded postural performance after muscle fatigue can be compensated by skin stimulation. <i>Gait and Posture</i> , 2011, 33, 686-689.	0.6	23
93	Comparison of causality analysis on simultaneously measured fMRI and NIRS signals during motor tasks. , 2013, 2013, 2628-31.		23
94	Concurrent Changes of Brain Functional Connectivity and Motor Variability When Adapting to Task Constraints. <i>Frontiers in Physiology</i> , 2018, 9, 909.	1.3	23
95	Fractal properties in sensorimotor variability unveil internal adaptations of the organism before symptomatic functional decline. <i>Scientific Reports</i> , 2019, 9, 15736.	1.6	23
96	Concurrent anodal transcranial direct-current stimulation and motor task to influence sensorimotor cortex activation. <i>Brain Research</i> , 2019, 1710, 181-187.	1.1	23
97	NIRS in ergonomics: Its application in industry for promotion of health and human performance at work. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 185-189.	1.5	22
98	The effect of hypoxemia and exercise on acute mountain sickness symptoms. <i>Journal of Applied Physiology</i> , 2013, 114, 180-185.	1.2	21
99	Time course of sensorimotor cortex reorganization during upper extremity task accompanying motor recovery early after stroke: An fNIRS study. <i>Restorative Neurology and Neuroscience</i> , 2019, 37, 207-218.	0.4	21
100	Neuro-mechanical and chemical influences on locomotor respiratory coupling in humans. <i>Respiratory Physiology and Neurobiology</i> , 2007, 155, 128-136.	0.7	20
101	Oxygen Uptake Kinetics During Moderate and Heavy Intensity Exercise in Humans: The Influence of Hypoxia and Training Status. <i>International Journal of Sports Medicine</i> , 2005, 26, 356-362.	0.8	19
102	Oxygen Uptake Kinetics During Heavy Submaximal Exercise: Effect of Sickle Cell Trait With or Without Alpha-Thalassemia. <i>International Journal of Sports Medicine</i> , 2006, 27, 517-525.	0.8	19
103	Tissue deoxygenation kinetics induced by prolonged hypoxic exposure in healthy humans at rest. <i>Journal of Biomedical Optics</i> , 2013, 18, 095002.	1.4	19
104	Exertion during uphill, level and downhill walking with and without hiking poles. <i>Journal of Sports Science and Medicine</i> , 2008, 7, 32-8.	0.7	18
105	Does oxidative capacity affect energy cost? An in vivo MR investigation of skeletal muscle energetics. <i>European Journal of Applied Physiology</i> , 2009, 106, 229-242.	1.2	17
106	Relationship Between Submaximal Handgrip Muscle Force and NIRS-Measured Motor Cortical Activation. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 269-274.	0.8	17
107	High-definition transcranial direct-current stimulation of the right M1 further facilitates left M1 excitability during crossed facilitation. <i>Journal of Neurophysiology</i> , 2018, 119, 1266-1272.	0.9	17
108	and EMG Activity Kinetics During Moderate and Severe Constant Work Rate Exercise in Trained Cyclists. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2004, 29, 758-772.	1.7	16



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109	Implication of the ipsilateral motor network in unilateral voluntary muscle contraction: the cross-activation phenomenon. <i>Journal of Neurophysiology</i> , 2020, 123, 2090-2098.	0.9	16
110	Decrease in Oxygen Uptake at the End of a High-Intensity Submaximal Running in Humans. <i>International Journal of Sports Medicine</i> , 2002, 23, 298-304.	0.8	15
111	The effect of prolonged submaximal exercise on gas exchange kinetics and ventilation during heavy exercise in humans. <i>European Journal of Applied Physiology</i> , 2003, 89, 587-594.	1.2	15
112	Physiological and Metabolic Responses of Triathletes to a Simulated 30-min Time-Trial in Cycling at Self-Selected Intensity. <i>International Journal of Sports Medicine</i> , 2003, 24, 138-143.	0.8	15
113	Is the VO <sub>2</sub> slow component in heavy arm-cranking exercise associated with recruitment of type II muscle fibers as assessed by an increase in surface EMG?. <i>Applied Physiology, Nutrition and Metabolism</i> , 2006, 31, 414-422.	0.9	15
114	Muscle oxygenation and intramuscular pressure related to posture and load in back muscles. <i>Spine Journal</i> , 2009, 9, 754-759.	0.6	15
115	Does Cardiorespiratory Fitness Influence the Effect of Acute Aerobic Exercise on Executive Function?. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 569010.	1.0	15
116	Influence of posture on pulmonary O <sub>2</sub> uptake kinetics, muscle deoxygenation and myoelectrical activity during heavy-intensity exercise. <i>Journal of Sports Science and Medicine</i> , 2006, 5, 254-65.	0.7	15
117	Influence of repeated isometric contractions on muscle deoxygenation and pulmonary oxygen uptake kinetics in humans. <i>Clinical Physiology and Functional Imaging</i> , 2004, 24, 229-236.	0.5	14
118	The role of engineering in fatigue reduction during human locomotion – a review. <i>Sports Engineering</i> , 2006, 9, 209-220.	0.5	14
119	Redetermination of the optimal stimulation intensity modifies resting H-reflex recovery after a sustained moderate-intensity muscle contraction. <i>Muscle and Nerve</i> , 2010, 41, 642-650.	1.0	14
120	Structural and functional brain signatures of endurance runners. <i>Brain Structure and Function</i> , 2021, 226, 93-103.	1.2	14
121	Effect of Endurance Training on Different Mechanical Efficiency Indices During Submaximal Cycling in Subjects Unaccustomed to Cycling. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2005, 30, 520-528.	1.7	13
122	The Perceived Exertion to Regulate a Training Program in Young Women. <i>Journal of Strength and Conditioning Research</i> , 2011, 25, 220-224.	1.0	13
123	Modulation of exercise-induced spinal loop properties in response to oxygen availability. <i>European Journal of Applied Physiology</i> , 2015, 115, 471-482.	1.2	13
124	Recovering arm function in chronic stroke patients using combined anodal HD-tDCS and virtual reality therapy (ReArm): a study protocol for a randomized controlled trial. <i>Trials</i> , 2021, 22, 747.	0.7	13
125	Dynamic Responses of Oxygen Uptake at the Onset and End of Moderate and Heavy Exercise in Trained Subjects. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2004, 29, 32-44.	1.7	12
126	Effect of prior heavy exercise on muscle deoxygenation kinetics at the onset of subsequent heavy exercise. <i>European Journal of Applied Physiology</i> , 2007, 99, 677-684.	1.2	12



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127	Application of near-infrared spectroscopy in preventing work-related musculoskeletal disorders: Brief review. <i>International Journal of Industrial Ergonomics</i> , 2010, 40, 180-184.	1.5	12
128	Effects of pre-exercise alkalosis on the decrease in $\dot{V}O_{2\max}$ at the end of all-out exercise. <i>European Journal of Applied Physiology</i> , 2016, 116, 85-95.	1.2	12
129	Commentaries on Viewpoint: Physiology and fast marathons. <i>Journal of Applied Physiology</i> , 2020, 128, 1069-1085.	1.2	12
130	Comparison of Heart Rate Deflection and Ventilatory Threshold During a Field Cross-Country Roller-Skiing Test. <i>Journal of Strength and Conditioning Research</i> , 2008, 22, 1977-1984.	1.0	11
131	Dynamic Responses of O <sub>2</sub> Uptake at the Onset and End of Exercise in Trained Subjects. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2003, 28, 630-641.	1.7	10
132	Degree of Coordination between Breathing and Rhythmic Arm Movements During Hand Rim Wheelchair Propulsion. <i>International Journal of Sports Medicine</i> , 2006, 27, 67-74.	0.8	10
133	Effects of a Supplementation during Exercise and Recovery. <i>International Journal of Sports Medicine</i> , 2007, 28, 703-712.	0.8	10
134	Grey-box modeling and hypothesis testing of functional near-infrared spectroscopy-based cerebrovascular reactivity to anodal high-definition tDCS in healthy humans. <i>PLoS Computational Biology</i> , 2021, 17, e1009386.	1.5	10
135	Training load responses modelling and model generalisation in elite sports. <i>Scientific Reports</i> , 2022, 12, 1586.	1.6	10
136	External loading does not change energy cost and mechanics of rollerski skating. <i>European Journal of Applied Physiology</i> , 1998, 78, 276-282.	1.2	9
137	Local muscle metabolic demand induced by neuromuscular electrical stimulation and voluntary contractions at different force levels: a NIRS study. <i>European Journal of Translational Myology</i> , 2016, 26, 6058.	0.8	9
138	Compression Garments: Evidence for their Physiological Effects (P208)., 2008, , 319-328.		9
139	Muscle Oxygenation Unlocks the Secrets of Physiological Responses to Exercise: Time to Exploit it in the Training Monitoring. <i>Frontiers in Sports and Active Living</i> , 2022, 4, 864825.	0.9	9
140	Training Monitoring in Sports: It Is Time to Embrace Cognitive Demand. <i>Sports</i> , 2022, 10, 56.	0.7	9
141	NIRS for Measuring Cerebral Hemodynamic Responses During Exercise. , 2012, , 335-349.		8
142	Opposite effects of hyperoxia on mitochondrial and contractile efficiency in human quadriceps muscles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R724-R733.	0.9	8
143	Expectations induced by natural-like temporal fluctuations are independent of attention decrement: Evidence from behavior and early visual evoked potentials. <i>NeuroImage</i> , 2015, 104, 278-286.	2.1	8
144	MACVIA-LR (FIGHTING CHRONIC DISEASES FOR ACTIVE AND HEALTHY AGEING IN LANGUEDOC-ROUSSILLON): A SUCCESS STORY OF THE EUROPEAN INNOVATION PARTNERSHIP ON ACTIVE AND HEALTHY AGEING. <i>Journal of Frailty &amp; Aging,the</i> , 2016, 5, 1-9.	0.8	8

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145	Compression Ã©lastique externe et fonction musculaire chez l'homme. <i>Science and Sports</i> , 2007, 22, 3-13.	0.2	7
146	Decrease in cerebral oxygenation influences central motor output in humans. <i>Acta Physiologica</i> , 2009, 196, 279-281.	1.8	7
147	Cerebral Cortex Activation Mapping upon Electrical Muscle Stimulation by 32-Channel Time-Domain Functional Near-Infrared Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 441-447.	0.8	7
148	Does an Abdominal Strengthening Program Influence Leg Stiffness During Hopping Tasks?. <i>Journal of Strength and Conditioning Research</i> , 2013, 27, 2129-2133.	1.0	7
149	Editorial: Investigating the human brain and muscle coupling during whole-body challenging exercise. <i>Frontiers in Physiology</i> , 2015, 6, 285.	1.3	7
150	Functional near-infrared spectroscopy to probe sensorimotor region activation during electrical stimulation-evoked movement. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 816-822.	0.5	7
151	Cycling performance and mechanical variables using a new prototype chainring. <i>European Journal of Applied Physiology</i> , 2007, 101, 721-726.	1.2	6
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