Matthias Weippert

List of Publications by Year
in descending order

43	1,119	567144 15	414303 32
papers	citations	h-index	g-index

44	44	44	1537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparison of three mobile devices for measuring Râ€“R intervals and heart rate variability: Polar S810i, Suunto t6 and an ambulatory ECG system. European Journal of Applied Physiology, 2010, 109, 779-786.	1.2	239
2	Fuzzy Evaluation of Heart Rate Signals for Mental Stress Assessment. IEEE Transactions on Fuzzy Systems, 2007, 15, 791-808.	6.5	122
3	Heart rate and heart rate variability as indirect markers of surgeonsâ€™ intraoperative stress. International Archives of Occupational and Environmental Health, 2014, 87, 165-174.	1.1	82
4	Caffeine-induced increase in voluntary activation and strength of the quadriceps muscle during isometric, concentric and eccentric contractions. Scientific Reports, 2015, 5, 10209.	1.6	65
5	Heart Rate Variability and Blood Pressure during Dynamic and Static Exercise at Similar Heart Rate Levels. PLoS ONE, 2013, 8, e83690.	1.1	53
6	Mental Fatigue Increases Gait Variability During Dual-task Walking in Old Adults. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2018, 73, 792-797.	1.7	49
7	Sample Entropy and Traditional Measures of Heart Rate Dynamics Reveal Different Modes of Cardiovascular Control During Low Intensity Exercise. Entropy, 2014, 16, 5698-5711.	1.1	46
8	Inter-individual Differences in Heart Rate Variability Are Associated with Inter-individual Differences in Empathy and Alexithymia. Frontiers in Psychology, 2018, 9, 229.	1.1	40
9	Heart rate variability is associated with psychosocial stress in distinct social domains. Journal of Psychosomatic Research, 2018, 106, 56-61.	1.2	39
10	Effects of breathing patterns and light exercise on linear and nonlinear heart rate variability. Applied Physiology, Nutrition and Metabolism, 2015, 40, 762-768.	0.9	32
11	Stress Monitoring Based on Stochastic Fuzzy Analysis of Heartbeat Intervals. IEEE Transactions on Fuzzy Systems, 2012, 20, 746-759.	6.5	28
12	Psychophysical workload in the operating room: primary surgeon versus assistant. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 1990-1998.	1.3	23
13	Neuromuscular function of the quadriceps muscle during isometric maximal, submaximal and submaximal fatiguing voluntary contractions in knee osteoarthrosis patients. PLoS ONE, 2017, 12, e0176976.	1.1	22
14	Fuzzy Filtering for Physiological Signal Analysis. IEEE Transactions on Fuzzy Systems, 2010, 18, 208-216.	6.5	20
15	Cardiac troponin T and echocardiographic dimensions after repeated sprint vs. moderate intensity continuous exercise in healthy young males. Scientific Reports, 2016, 6, 24614.	1.6	19
16	Intersession reliability of the interpolated twitch technique applied during isometric, concentric, and eccentric actions of the human knee extensor muscles. Muscle and Nerve, 2017, 56, 324-327.	1.0	19
17	Heart Rate Variability Modulates Interoceptive Accuracy. Frontiers in Neuroscience, 2020, 14, 612445.	1.4	17
18	An Explainable Fuzzy Theoretic Nonparametric Deep Model for Stress Assessment Using Heartbeat Intervals Analysis. IEEE Transactions on Fuzzy Systems, 2021, 29, 3873-3886.	6.5	16

#	Article	IF	Citations
19	Muscular contraction mode differently affects autonomic control during heart rate matched exercise. Frontiers in Physiology, 2015, 6, 156.	1.3	14
20	Heart rate variability is associated with social value orientation in males but not females. Scientific Reports, 2018, 8, 7336.	1.6	14
21	Sex-Specific Associations Between Inter-Individual Differences in Heart Rate Variability and Inter-Individual Differences in Emotion Regulation. Frontiers in Neuroscience, 2018, 12, 1040.	1.4	14
22	A mixture of fuzzy filters applied to the analysis of heartbeat intervals. Fuzzy Optimization and Decision Making, 2010, 9, 383-412.	3.4	13
23	Health effects and acceptance of a physical activity program for older long-term unemployed workers. International Archives of Occupational and Environmental Health, 2013, 86, 99-105.	1.1	13
24	Relationship Between Morning Heart Rate Variability and Creatine Kinase Response During Intensified Training in Recreational Endurance Athletes. Frontiers in Physiology, 2018, 9, 1267.	1.3	12
25	Sex-Specific Relationships Between Interoceptive Accuracy and Emotion Regulation. Frontiers in Behavioral Neuroscience, 2020, 14, 67.	1.0	12
26	Intrarater Reliability of Muscle Strength and Hamstring to Quadriceps Strength Imbalance Ratios During Concentric, Isometric, and Eccentric Maximal Voluntary Contractions Using the Isoforce Dynamometer. Clinical Journal of Sport Medicine, 2019, 29, 69-77.	0.9	10
27	Interoceptive accuracy is associated with emotional contagion in a valence- and sex-dependent manner. Social Neuroscience, 2020, 15, 227-233.	0.7	10
28	Central Factors Contribute to Knee Extensor Strength Loss after 2000-m Rowing in Elite Male and Female Rowers. Medicine and Science in Sports and Exercise, 2017, 49, 440-449.	0.2	9
29	Tri-axial high-resolution acceleration for oxygen uptake estimation: Validation of a multi-sensor device and a novel analysis method. Applied Physiology, Nutrition and Metabolism, 2013, 38, 345-351.	0.9	8
30	Neuromuscular function and fatigue resistance of the plantar flexors following short-term cycling endurance training. Frontiers in Physiology, 2015, 6, 145.	1.3	8
31	The Bindex^{Â®}ultrasound device: reliability of cortical bone thickness measures and their relationship to regional bone mineral density. Physiological Measurement, 2016, 37, 1528-1540.	1.2	8
32	Relationship between muscle volume and contractile properties of the human knee extensors. Applied Physiology, Nutrition and Metabolism, 2016, 41, 110-113.	0.9	8
33	It's Harder to Push, When I Have to Push Hardâ€"Physical Exertion and Fatigue Changes Reasoning and Decision-Making on Hypothetical Moral Dilemmas in Males. Frontiers in Behavioral Neuroscience, 2018, 12, 268.	1.0	8
34	Individual performance progression of German elite female and male middleâ€distance runners. European Journal of Sport Science, 2021, 21, 293-299.	1.4	6
35	Stress and Fitness Monitoring Embedded on a Modern Telematics Platform. Telemedicine Journal and E-Health, 2012, 18, 371-376.	1.6	5
36	Arbeitsmedizinische Bedeutung der HerzschlagfrequenzvariabilitÃt. Zentralblatt Fur Arbeitsmedizin, Arbeitsschutz Und Ergonomie, 2007, 57, 158-166.	0.1	4

#	Article	IF	Citations
37	A fuzzy filtering based system for maximal oxygen uptake prediction using heart rate variability analysis. , 2009, , .		4
38	Cycling before and after Exhaustion Differently Affects Cardiac Autonomic Control during Heart Rate Matched Exercise. Frontiers in Physiology, 2017, 8, 844.	1.3	3
39	24-Hour ambulatory monitoring of complex physiological parameters with a wireless health system: Feasibility, user compliance and application. , 2012, , .		1
40	Comment on â€œCytokines and Oxidative Stress Status following a Handball Game in Elite Male Playersâ€• Oxidative Medicine and Cellular Longevity, 2012, 2012, 1-2.	1.9	0
41	Benefit Of A Hrv-based And Combined Endurance, Resistance And Sensomotoric Intervention In Patients With Ischamic Heart Failure. Medicine and Science in Sports and Exercise, 2015, 47, 422.	0.2	0
42	Caffeine-induced Increase In Neural Activation And Strength Of The Quadriceps During Isometric And Dynamic Contractions. Medicine and Science in Sports and Exercise, 2015, 47, 658.	0.2	0
43	Co-Activation vs. Reciprocal Antagonism. Medicine and Science in Sports and Exercise, 2015, 47, 740.	0.2	0