

Mika P Tarvainen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

4,516
citations

28
h-index

66
g-index

136
ext. papers

5,681
ext. citations

2.9
avg, IF

5.57
L-index

#	Paper	IF	Citations
123	Autonomic responses to tooth clenching and handgrip test.. <i>Acta Odontologica Scandinavica</i> , 2022 , 1-7	2.2	2
122	The association between chronotype and sleep quality among female home care workers performing shift work.. <i>Chronobiology International</i> , 2022 , 1-10	3.6	
121	Altered Expiratory Flow Dynamics at Peak Exercise in Adult Men With Well-Controlled Type 1 Diabetes.. <i>Frontiers in Physiology</i> , 2022 , 13, 836814	4.6	0
120	Continuous 24-h Photoplethysmogram Monitoring Enables Detection of Atrial Fibrillation.. <i>Frontiers in Physiology</i> , 2021 , 12, 778775	4.6	0
119	Automatic Mobile Health Arrhythmia Monitoring for the Detection of Atrial Fibrillation: Prospective Feasibility, Accuracy, and User Experience Study. <i>JMIR MHealth and UHealth</i> , 2021 , 9, e29933	5.5	0
118	Wrist Band Photoplethysmography Autocorrelation Analysis Enables Detection of Atrial Fibrillation Without Pulse Detection. <i>Frontiers in Physiology</i> , 2021 , 12, 654555	4.6	5
117	Psycho-physiological responses of repeated exposure to natural and urban environments. <i>Landscape and Urban Planning</i> , 2021 , 209, 104061	7.7	4
116	Heart rate variability and chronotype - a systematic review. <i>Chronobiology International</i> , 2021 , 38, 1786-1796	3.96	1
115	Verbalization has regulatory influences on autonomic activity during recall of unpleasant experience. <i>Speech Communication</i> , 2021 , 126, 1-8	2.8	
114	Necklace-embedded electrocardiogram for the detection and diagnosis of atrial fibrillation. <i>Clinical Cardiology</i> , 2021 , 44, 620-626	3.3	3
113	Work community factors, occupational well-being and work ability in home care: A structural equation modelling. <i>Nursing Open</i> , 2021 , 8, 3190-3200	2.1	2
112	Associations of cardiometabolic risk factors with heart rate variability in 6- to 8-year-old children: The PANIC Study. <i>Pediatric Diabetes</i> , 2020 , 21, 251-258	3.6	4
111	Electrical and mechanical dyssynchrony in patients with right bundle branch block. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 621-630	2.1	11
110	Associations of physical activity, sedentary time, and cardiorespiratory fitness with heart rate variability in 6- to 9-year-old children: the PANIC study. <i>European Journal of Applied Physiology</i> , 2019 , 119, 2487-2498	3.4	15
109	Moderating effects of the valence of social interaction on the dysfunctional consequences of perseverative cognition: an ecological study in major depression and social anxiety disorder. <i>Anxiety, Stress and Coping</i> , 2019 , 32, 179-195	3.1	6
108	Recovery from sauna bathing favorably modulates cardiac autonomic nervous system. <i>Complementary Therapies in Medicine</i> , 2019 , 45, 190-197	3.5	15
107	Higher levels of Depressive Symptoms are Associated with Increased Resting-State Heart Rate Variability and Blunted Reactivity to a Laboratory Stress Task among Healthy Adults. <i>Applied Psychophysiology Biofeedback</i> , 2019 , 44, 221-234	3.4	5

106	Wrist band photoplethysmography in detection of individual pulses in atrial fibrillation and algorithm-based detection of atrial fibrillation. <i>Europace</i> , 2019 , 21, 1031-1038	3.9	14
105	A robust algorithm for heart rate variability time series artefact correction using novel beat classification. <i>Journal of Medical Engineering and Technology</i> , 2019 , 43, 173-181	1.8	46
104	Experimental study on the effects of isoflurane with and without remifentanyl or dexmedetomidine on heart rate variability before and after nociceptive stimulation at different MAC multiples in cats. <i>BMC Veterinary Research</i> , 2019 , 15, 258	2.7	3
103	Investigation of Linear and Nonlinear Properties of a Heartbeat Time Series Using Multiscale Rényi Entropy. <i>Entropy</i> , 2019 , 21,	2.8	2
102	Effectiveness of the Chest Strap Electrocardiogram to Detect Atrial Fibrillation. <i>American Journal of Cardiology</i> , 2019 , 123, 1643-1648	3	8
101	Cardiac Autonomic Activity in Commercial Aircrew During an Actual Flight Duty Period. <i>Aerospace Medicine and Human Performance</i> , 2019 , 90, 945-952	1.1	4
100	Relationships between electrical and mechanical dyssynchrony in patients with left bundle branch block and healthy controls. <i>Journal of Nuclear Cardiology</i> , 2019 , 26, 1228-1239	2.1	10
99	Heart rate variability during acute psychosocial stress: A randomized cross-over trial of verbal and non-verbal laboratory stressors. <i>International Journal of Psychophysiology</i> , 2018 , 127, 17-25	2.9	30
98	Physiological stress response patterns during a blood donation. <i>Vox Sanguinis</i> , 2018 , 113, 357-367	3.1	5
97	Oscillatory TMS-EEG-Responses as a Measure of the Cortical Excitability Threshold. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 383-391	4.8	15
96	Depression and cardiac dysautonomia in eating disorders. <i>Eating and Weight Disorders</i> , 2018 , 23, 369-374	3.6	6
95	Autonomic responses to tooth clenching in migraineurs-augmented trigeminocardiac reflex?. <i>Journal of Oral Rehabilitation</i> , 2018 , 45, 764-769	3.4	5
94	Heart rate variability and occupational stress-systematic review. <i>Industrial Health</i> , 2018 , 56, 500-511	2.5	63
93	From Individual Output to Pooled Data. <i>Journal of Psychophysiology</i> , 2018 , 32, 157-159	1	3
92	Heart Rate Variability During Cardiorespiratory Exercise Test in Type 1 Diabetes. <i>IFMBE Proceedings</i> , 2018 , 181-184	0.2	0
91	Fluctuations in heart rate variability of health care workers during four consecutive extended work shifts and recovery during rest and sleep. <i>Industrial Health</i> , 2018 , 56, 122-131	2.5	7
90	Intensified emotion perception in depression: Differences in physiological arousal and subjective perceptions. <i>Psychiatry Research</i> , 2017 , 253, 303-310	9.9	16
89	Determinants of Cardiorespiratory Fitness in a Population Sample of Girls and Boys Aged 6 to 8 Years. <i>Journal of Physical Activity and Health</i> , 2016 , 13, 1149-1155	2.5	3

88	Heart rate reactivity associated to positive and negative food and non-food visual stimuli. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5279-5282	0.9	1
87	Where to put your best foot forward: Psycho-physiological responses to walking in natural and urban environments. <i>Journal of Environmental Psychology</i> , 2016 , 45, 22-29	6.7	139
86	Psychophysiological responses to positive and negative food and nonfood visual stimuli.. <i>Journal of Neuroscience, Psychology, and Economics</i> , 2016 , 9, 78-88	1.6	9
85	A Lunchtime Walk in Nature Enhances Restoration of Autonomic Control during Night-Time Sleep: Results from a Preliminary Study. <i>International Journal of Environmental Research and Public Health</i> , 2016 , 13,	4.6	22
84	Transfer Function Analysis of the Longitudinal Motion of the Common Carotid Artery Wall. <i>Frontiers in Physiology</i> , 2016 , 7, 651	4.6	6
83	Socioeconomic status, age and heart rate variability in a Bangladeshi community. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5283-5285	0.9	
82	Nutritive sucking induces age-specific EEG-changes in 0-24 week-old infants. <i>Research in Social and Administrative Pharmacy</i> , 2016 , 45, 98-108	2.9	3
81	Principal Component Analysis of the Longitudinal Carotid Wall Motion in Association with Vascular Stiffness: A Pilot Study. <i>Ultrasound in Medicine and Biology</i> , 2016 , 42, 2873-2886	3.5	10
80	A Comparison of Nonlinear Measures for the Detection of Cardiac Autonomic Neuropathy from Heart Rate Variability. <i>Entropy</i> , 2015 , 17, 1425-1440	2.8	17
79	Heart rate variability evaluation of Emfit sleep mattress breathing categories in NREM sleep. <i>Clinical Neurophysiology</i> , 2015 , 126, 967-74	4.3	5
78	Cognitive rigidity is mirrored by autonomic inflexibility in daily life perseverative cognition. <i>Biological Psychology</i> , 2015 , 107, 24-30	3.2	47
77	Cue reactivity and its relation to craving and relapse in alcohol dependence: a combined laboratory and field study. <i>Psychopharmacology</i> , 2015 , 232, 3685-96	4.7	69
76	Assessment of the acute impact of normobaric hypoxia as a part of an intermittent hypoxic training on heart rate variability. <i>Cor Et Vasa</i> , 2015 , 57, e251-e256	0.3	5
75	Effects of a reduction in the number of short intervals between work shifts on heart rate variability: A prospective field study of female nurses. <i>Clinical Nursing Studies</i> , 2015 , 3,	0.1	1
74	Complex nonlinear autonomic nervous system modulation link cardiac autonomic neuropathy and peripheral vascular disease. <i>Frontiers in Physiology</i> , 2015 , 6, 101	4.6	2
73	Multiscale Renyi Entropy and Cardiac Autonomic Neuropathy 2015 ,		4
72	Autonomic nervous system response to L-dopa in patients with advanced Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6162-5	0.9	3
71	Principal component model for maternal ECG extraction in fetal QRS detection. <i>Physiological Measurement</i> , 2014 , 35, 1637-48	2.9	16

70	Cognitive, behavioral, and autonomic correlates of mind wandering and perseverative cognition in major depression. <i>Frontiers in Neuroscience</i> , 2014 , 8, 433	5.1	59
69	How to Calculate Renyi Entropy from Heart Rate Variability, and Why it Matters for Detecting Cardiac Autonomic Neuropathy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 34	5.8	26
68	Principal component analysis of heart rate variability data in assessing cardiac autonomic neuropathy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6667-70	0.9	7
67	Cardiac autonomic dysfunction in type 2 diabetes - effect of hyperglycemia and disease duration. <i>Frontiers in Endocrinology</i> , 2014 , 5, 130	5.7	38
66	Effect of heart rate correction on pre- and post-exercise heart rate variability to predict risk of mortality-an experimental study on the FINCAVAS cohort. <i>Frontiers in Physiology</i> , 2014 , 5, 208	4.6	24
65	Visualization methods for assisting detection of cardiovascular neuropathy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 6675-8	0.9	
64	Evaluation of normalised Renyi entropy for classification of cardiac autonomic neuropathy 2014 ,		1
63	Normal values for heart rate variability parameters in children 6-8 years of age: the PANIC Study. <i>Clinical Physiology and Functional Imaging</i> , 2014 , 34, 290-6	2.4	38
62	Relation of arterial stiffness and axial motion of the carotid artery wall - a pilot study to test our motion tracking algorithm in practice. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 246-9	0.9	
61	Kubios HRV-heart rate variability analysis software. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 210-20	6.9	1248
60	Subjective sleep quality in relation to inhibition and heart rate variability in patients with panic disorder. <i>Journal of Affective Disorders</i> , 2013 , 150, 152-5	6.6	17
59	Nitroglycerin-induced changes in facial skin temperature: cold nose as a predictor of headache?. <i>Clinical Physiology and Functional Imaging</i> , 2013 , 33, 409-17	2.4	10
58	The correlation of vectorcardiographic changes to blood lactate concentration during an exercise test. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 491-499	4.9	7
57	Causal estimation of neural and overall baroreflex sensitivity in relation to carotid artery stiffness. <i>Physiological Measurement</i> , 2013 , 34, 1633-44	2.9	3
56	Non-Linear EMG Parameters for Differential and Early Diagnostics of Parkinson's Disease. <i>Frontiers in Neurology</i> , 2013 , 4, 135	4.1	29
55	Dynamic modeling of respiratory sinus arrhythmia component from HRV with multivariate Kalman smoother. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1684-7	0.9	0
54	Complexity of heart rate variability in type 2 diabetes - effect of hyperglycemia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5558-61	0.9	8
53	Using Renyi entropy to detect early cardiac autonomic neuropathy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5562-5	0.9	8

52	Effects of implementing an ergonomic work schedule on heart rate variability in shift-working nurses. <i>Journal of Occupational Health</i> , 2013 , 55, 225-33	2.3	8
51	Differences in heart rate variability of female nurses between and within normal and extended work shifts. <i>Industrial Health</i> , 2013 , 51, 154-64	2.5	15
50	The effects of views of nature on autonomic control. <i>European Journal of Applied Physiology</i> , 2012 , 112, 3379-86	3.4	89
49	The relationships among heart rate variability, executive functions, and clinical variables in patients with panic disorder. <i>International Journal of Psychophysiology</i> , 2012 , 86, 269-75	2.9	64
48	Linear and nonlinear tremor acceleration characteristics in patients with Parkinson's disease. <i>Physiological Measurement</i> , 2012 , 33, 395-412	2.9	34
47	Heart rate variability dynamics during low-dose propofol and dexmedetomidine anesthesia. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1802-13	4.7	21
46	Estimation of arterial baroreflex sensitivity in relation to carotid artery stiffness. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3408-11	0.9	
45	Cerebral cortex and sub-cortex lateralization in cardiovascular regulation: correlations of BOLD fMRI and heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3412-5	0.9	0
44	Cholesterol metabolism, endothelial dysfunction, and carotid artery stiffness in type 1 diabetes?. <i>Artery Research</i> , 2011 , 5, 8	2.2	1
43	Measurements of skin temperature responses to cold exposure of foot and face in healthy individuals: variability and influencing factors. <i>Clinical Physiology and Functional Imaging</i> , 2011 , 31, 307-14	2.4	9
42	Analysis of EMG and acceleration signals for quantifying the effects of deep brain stimulation in Parkinson's disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2545-53	5	26
41	EMG and acceleration signal analysis for quantifying the effects of medication in Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7496-9	0.9	
40	Dynamic estimation of cardiac repolarization characteristics during hypoglycemia in healthy and diabetic subjects. <i>Physiological Measurement</i> , 2011 , 32, 649-60	2.9	14
39	Hypoglycemia detection based on cardiac repolarization features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 4697-700	0.9	7
38	Analysis of heart rate variability dynamics during propofol and dexmedetomidine anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1634-7	0.9	4
37	Discrimination of EMG and acceleration measurements between patients with Parkinson's disease and healthy persons. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4878-81	0.9	3
36	Method for testing motion analysis laboratory measurement systems. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 114501	2.1	3
35	A principal component regression approach for estimation of ventricular repolarization characteristics. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1062-9	5	11

34	The Relationship Between Spectral Changes in Heart Rate Variability and Fatigue. <i>Journal of Psychophysiology</i> , 2009 , 23, 143-151	1	56
33	Kalman smoother based time-varying spectrum estimation of EEG during single agent propofol anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5709-12	0.9	
32	Processing intrusion detection alert aggregates with time series modeling. <i>Information Fusion</i> , 2009 , 10, 312-324	16.7	44
31	Novel parameters of surface EMG in patients with Parkinson's disease and healthy young and old controls. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, e206-13	2.5	78
30	Time-varying spectrum estimation of heart rate variability signals with Kalman smoother algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 1-4	0.9	5
29	Analysis of dynamic voluntary muscle contractions in Parkinson's disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2280-8	5	20
28	Kubios HRV 1A Software for Advanced Heart Rate Variability Analysis. <i>IFMBE Proceedings</i> , 2009 , 1022-1025	52	59
27	A Principal Component Regression Approach for Estimation of Ventricular Repolarization Characteristics. <i>IFMBE Proceedings</i> , 2009 , 385-388	0.2	
26	Tracking single-trial evoked potential changes with Kalman filtering and smoothing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 157-60	0.9	
25	Perceived mental stress and reactions in heart rate variability--a pilot study among employees of an electronics company. <i>International Journal of Occupational Safety and Ergonomics</i> , 2008 , 14, 275-83	2.1	65
24	Dynamic time-varying analysis of heart rate and blood pressure variability in cats exposed to short-term chronic intermittent hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R28-37	3.2	28
23	Estimation of single-trial fMRI BOLD responses using combined EEG and fMRI measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 299-302	0.9	
22	Analysis of dynamic EMG and acceleration measurements in Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 5053-6	0.9	1
21	Surface EMG and acceleration signals in Parkinson's disease: feature extraction and cluster analysis. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 849-58	3.1	63
20	Effects of nutritive and non-nutritive sucking on infant heart rate variability during the first 6 months of life. <i>Research in Social and Administrative Pharmacy</i> , 2007 , 30, 546-56	2.9	28
19	A subspace method for dynamical estimation of evoked potentials. <i>Computational Intelligence and Neuroscience</i> , 2007 , 2007, 61916	3	2
18	Analysis of surface EMG signal morphology in Parkinson's disease. <i>Physiological Measurement</i> , 2007 , 28, 1507-21	2.9	42
17	Subspace approaches for fMRI time series estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5485-8		

16	Heart rate variability derived from exercise ECG in the detection of coronary artery disease. <i>Physiological Measurement</i> , 2007 , 28, 1189-200	2.9	11
15	On correlation between single-trial ERP and GSR responses: a principal component regression approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 5499-502		1
14	Noise sensitivity of a principal component regression based RT interval variability estimation method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3098-101		1
13	Time-varying analysis of heart rate variability signals with a Kalman smoother algorithm. <i>Physiological Measurement</i> , 2006 , 27, 225-39	2.9	57
12	Single-trial dynamical estimation of event-related potentials: a Kalman filter-based approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 1397-406	5	61
11	High-resolution QRS fiducial point corrections in sparsely sampled ECG recordings. <i>Physiological Measurement</i> , 2005 , 26, 743-51	2.9	12
10	Time-varying analysis of heart rate variability with kalman smoother algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 2718-21		2
9	Principal Component Regression Approach for QT Variability Estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 1145-7		1
8	Estimation of nonstationary EEG with Kalman smoother approach: an application to event-related synchronization (ERS). <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 516-24	5	84
7	Software for advanced HRV analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2004 , 76, 73-81	6.9	480
6	N100 auditory potential and electroencephalogram discriminate propofol-induced sedation levels. <i>Journal of Clinical Monitoring and Computing</i> , 2004 , 18, 163-70	2	4
5	Heart rate variability in acute psychosis. <i>Psychophysiology</i> , 2003 , 40, 716-26	4.1	76
4	An advanced detrending method with application to HRV analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 172-5	5	686
3	Boundary element method and internal electrodes in electrical impedance tomography. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 809-824	2.4	14
2	Analysis of galvanic skin responses with principal components and clustering techniques. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 1071-9	5	27
1	Use of Room Temperature Semiconductor Detectors for the Verification of Nuclear Material in International Safeguards Recent Advances. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 302, 19		4