

# Mathias Baumert

## List of Publications by Year in descending order

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Version: 2024-02-01

208  
papers

4,636  
citations

109321

35  
h-index

138484

58  
g-index

214  
all docs

214  
docs citations

214  
times ranked

4481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilisation of machine learning to predict surgical candidates for the treatment of childhood upper airway obstruction. <i>Sleep and Breathing</i> , 2022, 26, 649-661.	1.7	2
2	Sleep apnea and atrial fibrillation: challenges in clinical and translational research. <i>Expert Review of Cardiovascular Therapy</i> , 2022, 20, 101-109.	1.5	9
3	The Reproducibility of Bio-Acoustic Features is Associated With Sample Duration, Speech Task, and Gender. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2022, 30, 167-175.	4.9	5
4	Erkennung, Vorhersage und Behandlung von Vorhofflimmern mithilfe künstlicher Intelligenz. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2022, 33, 34-41.	0.8	13
5	Mobile app-based symptom-rhythm correlation assessment in patients with persistent atrial fibrillation. <i>Europace</i> , 2022, 24, .	1.7	1
6	Cyclic alternating pattern in children with obstructive sleep apnea and its relationship with adenotonsillectomy, behavior, cognition, and quality of life. <i>Sleep</i> , 2021, 44, .	1.1	20
7	Comment on "The effect of persistent U-shaped patterns in RR night-time series on the heart rate variability complexity in healthy humans". <i>Physiological Measurement</i> , 2021, 42, 018002.	2.1	0
8	Template Adaptation of 2D Quasi-Periodic Data Using a Soft-Assign Localized Correspondence Matrix. <i>IEEE Transactions on Signal Processing</i> , 2021, 69, 826-836.	5.3	1
9	Progress in Brain Computer Interface: Challenges and Opportunities. <i>Frontiers in Systems Neuroscience</i> , 2021, 15, 578875.	2.5	128
10	Nocturnal hypoxemic burden during positive airway pressure treatment across different central sleep apnea etiologies. <i>Sleep Medicine</i> , 2021, 79, 62-70.	1.6	8
11	Sleep arousal burden is associated with long-term all-cause and cardiovascular mortality in 8001 community-dwelling older men and women. <i>European Heart Journal</i> , 2021, 42, 2088-2099.	2.2	51
12	Personalized management of sleep apnea in patients with atrial fibrillation: An interdisciplinary and translational challenge. <i>IJC Heart and Vasculature</i> , 2021, 35, 100843.	1.1	0
13	Keep your rhythm during rotational night work shifts!. <i>European Heart Journal</i> , 2021, 42, 4189-4191.	2.2	3
14	Causality of cortical and cardiovascular activity during cyclic alternating pattern in non-rapid eye movement sleep. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200248.	3.4	7
15	Evaluation of Ventricular Repolarization Variability in Patients With Nonischemic Dilated Cardiomyopathy From Vectorcardiography. , 2021, , .		0
16	Assessing Correlation between Heart Rate Variability Markers Based on Laguerre Expansion and Direct Measures of Sympathetic Activity during Incremental Head-up Tilt. , 2021, 2021, 5411-5414.		1
17	Composition of nocturnal hypoxaemic burden and its prognostic value for cardiovascular mortality in older community-dwelling men. <i>European Heart Journal</i> , 2020, 41, 533-541.	2.2	61
18	Plasma Exchange Therapy in Postural Tachycardia Syndrome: A Novel Long-Term Approach?. <i>American Journal of Medicine</i> , 2020, 133, e157-e159.	1.5	9

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19	Low Prognostic Value of Novel Nocturnal Metrics in Patients With OSA and High Cardiovascular Event Risk. <i>Chest</i> , 2020, 158, 2621-2631.	0.8	18
20	Non-REM sleep instability in children with restless sleep disorder. <i>Sleep Medicine</i> , 2020, 75, 276-281.	1.6	18
21	0392 The Effect of Benzodiazepine Use on Non-REM Sleep Instability in Community-Dwelling Older Men. <i>Sleep</i> , 2020, 43, A150-A150.	1.1	0
22	0818 Cyclic Alternating Pattern as Indicator for Subjective Sleep Quality in Community-Dwelling Older Men. <i>Sleep</i> , 2020, 43, A312-A312.	1.1	0
23	0943 Increased Non-REM Sleep Instability in Children with Restless Sleep Disorder. <i>Sleep</i> , 2020, 43, A358-A358.	1.1	0
24	Cerebral Blood Flow and Cognitive Performance in Postural Tachycardia Syndrome: Insights from Sustained Cognitive Stress Test. <i>Journal of the American Heart Association</i> , 2020, 9, e017861.	3.7	15
25	0393 The Effect of Trazadone Use on Non-REM Sleep Instability in Community-Dwelling Older Men. <i>Sleep</i> , 2020, 43, A150-A151.	1.1	0
26	Augmented Oscillations in QT Interval Duration Predict Mortality Post Myocardial Infarction Independent of Heart Rate. <i>Frontiers in Physiology</i> , 2020, 11, 578173.	2.8	5
27	Brain fog in postural tachycardia syndrome: An objective cerebral blood flow and neurocognitive analysis. <i>Journal of Arrhythmia</i> , 2020, 36, 549-552.	1.2	7
28	The Inconsistent Nature of Heart Rate Variability During Sleep in Normal Children and Adolescents. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 19.	2.4	13
29	Characterization of cyclic alternating pattern during sleep in older men and women using large population studies. <i>Sleep</i> , 2020, 43, .	1.1	23
30	Automatic A-Phase Detection of Cyclic Alternating Patterns in Sleep Using Dynamic Temporal Information. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 1695-1703.	4.9	49
31	Wavelet Entropy-Based Inter-subject Associative Cortical Source Localization for Sensorimotor BCI. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 47.	2.5	12
32	Nocturnal Hypoxemic Burden in Ambulatory Patients with Atrial Fibrillation: a Disease-Orientated Assessment of Sleep-Disordered Breathing Severity. <i>Heart Lung and Circulation</i> , 2019, 28, S221.	0.4	0
33	Overnight heart rate variability and next day cortisol response during simulated on-call conditions. <i>Psychoneuroendocrinology</i> , 2019, 109, 104406.	2.7	8
34	Sleep Arousal and Sudden Changes in Cardiac QT Interval. , 2019, 2019, 3658-3661.		0
35	Repolarization variability independent of heart rate during sympathetic activation elicited by head-up tilt. <i>Medical and Biological Engineering and Computing</i> , 2019, 57, 1753-1762.	2.8	8
36	Mean nocturnal respiratory rate predicts cardiovascular and all-cause mortality in community-dwelling older men and women. <i>European Respiratory Journal</i> , 2019, 54, 1802175.	6.7	21

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37	How to assess nocturnal hypoxaemic burden in Cardiology?. European Heart Journal, 2019, 40, 2988-2988.	2.2	6
38	Characterization of the Asymmetry of the Cardiac and Sympathetic Arms of the Baroreflex From Spontaneous Variability During Incremental Head-Up Tilt. Frontiers in Physiology, 2019, 10, 342.	2.8	19
39	P2843 Impact of bipolar vector orientation and inter-electrode spacing on electrograms during human atrial fibrillation. European Heart Journal, 2019, 40, .	2.2	0
40	P661 Nocturnal hypoxemic burden in ambulatory patients with atrial fibrillation: a disease-orientated assessment of sleep-disordered breathing severity. European Heart Journal, 2019, 40, .	2.2	0
41	A Method for Estimating Pulse Wave Amplitude Variability in children with Sleep Disordered Breathing. , 2019, 2019, 2289-2292.		2
42	Beamforming-inspired Spatial Filtering Technique for Intracardiac Electrograms. , 2019, 2019, 4254-4257.		1
43	Beat-to-Beat Analysis of Vectorcardiogram by Inhomogeneous Template Adaptation. , 2019, 2019, 83-86.		1
44	P4404 Prognostic value of novel nocturnal oxygen saturation metrics in patients with obstructive sleep apnoea and high cardiovascular event risk. European Heart Journal, 2019, 40, .	2.2	0
45	Nightly sleep apnea severity in patients with atrial fibrillation: Potential applications of long-term sleep apnea monitoring. IJC Heart and Vasculature, 2019, 24, 100424.	1.1	32
46	Improved A-phase Detection of Cyclic Alternating Pattern Using Deep Learning. , 2019, 2019, 1842-1845.		9
47	Inhomogeneous Template Adaptation of Temporal Quasi-Periodic Three-Dimensional Signals. IEEE Transactions on Signal Processing, 2019, 67, 6067-6077.	5.3	2
48	Nocturnal ventricular repolarization lability predicts cardiovascular mortality in the Sleep Heart Health Study. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H495-H505.	3.2	12
49	Intra- and Inter-subject Variability in EEG-Based Sensorimotor Brain Computer Interface: A Review. Frontiers in Computational Neuroscience, 2019, 13, 87.	2.1	132
50	Iterative two-dimensional signal warpingâ€”Towards a generalized approach for adaption of one-dimensional signals. Biomedical Signal Processing and Control, 2018, 43, 311-319.	5.7	10
51	The association between different features of sleepâ€”disordered breathing and blood pressure: A crossâ€”sectional study. Journal of Clinical Hypertension, 2018, 20, 575-581.	2.0	18
52	Ascending aortic blood flow velocity is increased in children with primary snoring/mild sleep-disordered breathing and associated with an increase in CD8 + $\hat{A}T$ cells expressing TNF $\hat{\pm}$ and IFN $\hat{\beta}$ . Heart and Vessels, 2018, 33, 537-548.	1.2	9
53	Increased beat-to-beat T-wave variability in myocardial infarction patients. Biomedizinische Technik, 2018, 63, 123-130.	0.8	5
54	Reaction Time Predicts Brainâ€”Computer Interface Aptitude. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-11.	3.7	8

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55	Effect of adenotonsillectomy for childhood obstructive sleep apnea on nocturnal heart rate patterns. <i>Sleep</i> , 2018, 41, .	1.1	10
56	Role of respiration in the cardiovascular response to orthostatic and mental stress. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R761-R769.	1.8	20
57	Assessment and interpretation of sleep disordered breathing severity in cardiology: Clinical implications and perspectives. <i>International Journal of Cardiology</i> , 2018, 271, 281-288.	1.7	57
58	Diagnostic accuracy of overnight oximetry for the diagnosis of sleep-disordered breathing in atrial fibrillation patients. <i>International Journal of Cardiology</i> , 2018, 272, 155-161.	1.7	34
59	Pulse wave amplitude and heart period variability in children with upper airway obstruction. <i>Sleep Medicine</i> , 2018, 50, 55-62.	1.6	4
60	1007Diagnostic accuracy of overnight oximetry for the diagnosis of sleep-disordered breathing in atrial fibrillation patients. <i>Europace</i> , 2018, 20, i191-i191.	1.7	0
61	Adenotonsillectomy for childhood obstructive sleep apnoea reduces thoraco-abdominal asynchrony but spontaneous apnoea-hypopnoea index normalisation does not. <i>European Respiratory Journal</i> , 2017, 49, 1601177.	6.7	9
62	Effect of Loss of Heart Rate Variability on T-Wave Heterogeneity and QT Variability in Heart Failure Patients: Implications in Ventricular Arrhythmogenesis. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 219-228.	1.6	12
63	Assessing the strength of cardiac and sympathetic baroreflex controls via transfer entropy during orthostatic challenge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160290.	3.4	16
64	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. <i>Physiological Measurement</i> , 2017, 38, 1472-1489.	2.1	18
65	Relationship between Vascular Resistance and Sympathetic Nerve Fiber Density in Arterial Vessels in Children With Sleep Disordered Breathing. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	12
66	Investigating the impact of feedback update interval on the efficacy of restorative brain-computer interfaces. <i>Royal Society Open Science</i> , 2017, 4, 170660.	2.4	6
67	An evaluation of multiple algorithms for the measurement of the heart rate corrected JTpeak interval. <i>Journal of Electrocardiology</i> , 2017, 50, 769-775.	0.9	12
68	Altered Nocturnal Cardiovascular Control in Children With Sleep-Disordered Breathing. <i>Sleep</i> , 2017, 40, .	1.1	8
69	Baroreflex Coupling Assessed by Cross-Compression Entropy. <i>Frontiers in Physiology</i> , 2017, 8, 282.	2.8	8
70	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor $\hat{\mu}^2$ -Band Modulation. <i>Frontiers in Neuroscience</i> , 2017, 11, 60.	2.8	33
71	Beat-to-Beat QT Interval Variability and Autonomic Activity. , 2017, , 403-416.		0
72	Heritability of ECG Biomarkers in the Netherlands Twin Registry Measured from Holter ECGs. <i>Frontiers in Physiology</i> , 2016, 7, 154.	2.8	11

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73	T Wave Amplitude Correction of QT Interval Variability for Improved Repolarization Lability Measurement. <i>Frontiers in Physiology</i> , 2016, 7, 216.	2.8	13
74	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. <i>Frontiers in Physiology</i> , 2016, 7, 438.	2.8	51
75	136-02: Effect of Loss of Heart Rate Variability on T-wave Heterogeneity and QT Variability in Heart Failure Patients: Implications in Ventricular Arrhythmogenesis. <i>Europace</i> , 2016, 18, i89-i89.	1.7	0
76	The Remarkable Edward (Ted) Both, Australiaâ€™s Not-So-Well-Known Inventor [Scanning Our Past]. <i>Proceedings of the IEEE</i> , 2016, 104, 2250-2256.	21.3	0
77	Towards a more accurate analysis of respiratory sinus arrhythmia during sleep. <i>Sleep Medicine</i> , 2016, 23, 125.	1.6	0
78	The effect of adenotonsillectomy for childhood sleep apnoea on cardiorespiratory control. <i>ERJ Open Research</i> , 2016, 2, 00003-2016.	2.6	15
79	T Wave Morphology Can Distinguish Healthy Controls From LQTS Patients With Normal QT Intervals. <i>Heart Lung and Circulation</i> , 2016, 25, S262.	0.4	1
80	Recording duration and short-term reproducibility of heart rate and QT interval variability in patients with myocardial infarction. <i>Physiological Measurement</i> , 2016, 37, 1925-1933.	2.1	2
81	What is the natural frequency of an electrocardiogram?. <i>International Journal of Cardiology</i> , 2016, 225, 213-214.	1.7	0
82	Measurement of T wave variability in body surface ECG. <i>Journal of Electrocardiology</i> , 2016, 49, 883-886.	0.9	2
83	T-wave morphology can distinguish healthy controls from LQTS patients. <i>Physiological Measurement</i> , 2016, 37, 1456-1473.	2.1	14
84	Calibrated variability of muscle sympathetic nerve activity during graded head-up tilt in humans and its link with noradrenaline data and cardiovascular rhythms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 310, R1134-R1143.	1.8	43
85	Effects of ECG sampling rate on QT interval variability measurement. <i>Biomedical Signal Processing and Control</i> , 2016, 25, 159-164.	5.7	19
86	Quantitative-Electrogram-Based Methods for Guiding Catheter Ablation in Atrial Fibrillation. <i>Proceedings of the IEEE</i> , 2016, 104, 416-431.	21.3	26
87	Biomedical Signal Processing: From a Conceptual Framework to Clinical Applications [Scanning the Issue]. <i>Proceedings of the IEEE</i> , 2016, 104, 220-222.	21.3	12
88	Slowed atrial and atrioventricular conduction and depressed <scp>HRV</scp> in a murine model of hypertrophic cardiomyopathy. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2016, 43, 95-101.	1.9	4
89	QT interval variability in body surface ECG: measurement, physiological basis, and clinical value: position statement and consensus guidance endorsed by the European Heart Rhythm Association jointly with the ESC Working Group on Cardiac Cellular Electrophysiology. <i>Europace</i> , 2016, 18, 925-944.	1.7	186
90	Causal coherence analysis of cardiovascular variables in obese preadolescents and adolescents. , 2015, 2015, 1793-6.		1

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91	Joint symbolic dynamics for the assessment of cardiovascular and cardiorespiratory interactions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140097.	3.4	17
92	Relation between QT interval variability and muscle sympathetic nerve activity in normal subjects. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1218-H1224.	3.2	20
93	Delayed brachial artery dilation response and increased resting blood flow velocity in young children with mild sleep-disordered breathing. Sleep Medicine, 2015, 16, 1451-1456.	1.6	18
94	Prediction of motor imagery based brain computer interface performance using a reaction time test. , 2015, 2015, 2880-3.		2
95	Symbolic dynamics of pulse transit time and heart period in children with upper airway obstruction. , 2015, 2015, 1801-4.		1
96	Enhancing dynamical signatures of complex systems through symbolic computation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140099.	3.4	27
97	Heart rate variability and ECG alterations in a murine model of hypertrophic cardiomyopathy. Heart Lung and Circulation, 2015, 24, S227-S228.	0.4	0
98	Effect of respiration on heartbeat-evoked potentials during sleep in children with sleep-disordered breathing. Sleep Medicine, 2015, 16, 665-667.	1.6	12
99	QT variability improves risk stratification in patients with dilated cardiomyopathy. Physiological Measurement, 2015, 36, 699-713.	2.1	12
100	VVâ€² Alternans Triplets on Nearâ€²Field ICD Intracardiac Electrogram is Associated with Mortality. PACE - Pacing and Clinical Electrophysiology, 2015, 38, 547-557.	1.2	3
101	Flowâ€²mediated dilatation, using time course data, shows maturation of the brachial artery from young children to midâ€²adolescents. Clinical and Experimental Pharmacology and Physiology, 2015, 42, 240-245.	1.9	7
102	Does feedback modality affect performance of brain computer interfaces?. , 2015, , .		5
103	Increased thoracoabdominal asynchrony during breathing periods free of discretely scored obstructive events in children with upper airway obstruction. Sleep and Breathing, 2015, 19, 65-71.	1.7	12
104	Heartbeat Evoked Potentials during Sleep and Daytime Behavior in Children with Sleep-disordered Breathing. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 1149-1157.	5.6	23
105	High-Density Mapping of Ventricular Scar. Circulation: Arrhythmia and Electrophysiology, 2014, 7, 90-98.	4.8	56
106	Entropy Analysis of RR and QT Interval Variability during Orthostatic and Mental Stress in Healthy Subjects. Entropy, 2014, 16, 6384-6393.	2.2	20
107	Cardiovascular variability before and after delivery: recovery from arterial stiffness in women with preeclampsia 4â€²days post partum. Hypertension in Pregnancy, 2014, 33, 1-14.	1.1	10
108	Multiscale Compression Entropy of Microvascular Blood FlowSignals: Comparison of Results from Laser Speckle Contrastand Laser Doppler Flowmetry Data in Healthy Subjects. Entropy, 2014, 16, 5777-5795.	2.2	15

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109	QT variability analysis for risk stratification in patients with dilated cardiomyopathy. , 2014, , .		0
110	Symbolic dynamics of respiratory cycle related sleep EEG in children with sleep disordered breathing. , 2014, 2014, 6016-9.		0
111	Effect of resistive inspiratory and expiratory loading on cardio-respiratory interaction in healthy subjects. , 2014, 2014, 710-3.		0
112	Measurement of QT variability by two-dimensional warping. , 2014, , .		7
113	Two-Dimensional Warping for One-Dimensional Signalsâ€™ Conceptual Framework and Application to ECG Processing. IEEE Transactions on Signal Processing, 2014, 62, 5577-5588.	5.3	44
114	A six-month exercise intervention in subclinical diabetic heart disease: Effects on exercise capacity, autonomic and myocardial function. Metabolism: Clinical and Experimental, 2014, 63, 1104-1114.	3.4	33
115	Track C. Biomedizinische Technik, 2014, 59, s144-262.	0.8	3
116	Respiratory Cycle-Related Electroencephalographic Changes during Sleep in Healthy Children and in Children with Sleep Disordered Breathing. Sleep, 2014, 37, 1353-1361.	1.1	15
117	Movement Distribution: A New Measure of Sleep Fragmentation in Children with Upper Airway Obstruction. Sleep, 2014, 37, 2025-2034.	1.1	16
118	Characterizing respiratory waveform regularity and associated thoraco-abdominal asynchrony during sleep using respiratory inductive plethysmography. , 2013, , .		0
119	Joint symbolic dynamics as an effective approach to study the influence of respiratory phase on baroreflex function. , 2013, 2013, 49-52.		1
120	Ondansetron prevents changes in respiratory pattern provoked by LiCl: A new approach for studying pro-emetic states in rodents?. Neuroscience, 2013, 246, 342-350.	2.3	5
121	Joint symbolic analyses of heart rate, blood pressure, and respiratory dynamics. Journal of Electrocardiology, 2013, 46, 569-573.	0.9	13
122	Decoupling of QT interval variability from heart rate variability with ageing. Physiological Measurement, 2013, 34, 1435-1448.	2.1	33
123	Respiratory sinus arrhythmia during sleep in children with upper airway obstruction. Journal of Sleep Research, 2013, 22, 463-470.	3.2	3
124	Autonomic modulation of repolarization instability in patients with heart failure prone to ventricular tachycardia. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1181-H1188.	3.2	20
125	Bipolar Electrogram Shannon Entropy at Sites of Rotational Activation. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 48-57.	4.8	107
126	Beat-to-beat QT interval variability and T-wave amplitude in patients with myocardial infarction. Physiological Measurement, 2013, 34, 1075-1083.	2.1	25

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127	Investigation of the trade-off between time window length, classifier update rate and classification accuracy for restorative brain-computer interfaces. , 2013, 2013, 1567-70.		6
128	Improved ECG pre-processing for beat-to-beat QT interval variability measurement. , 2013, 2013, 2563-6.		4
129	Heart rate complexity and cardiac sympathetic dysinnervation in patients with type 2 diabetes mellitus. , 2013, 2013, 5570-3.		5
130	QT Interval Variability in Type 2 Diabetic Patients with Cardiac Sympathetic Dysinnervation Assessed by <sup>123</sup> I-Metaiodobenzylguanidine Scintigraphy. Journal of Cardiovascular Electrophysiology, 2013, 24, 305-313.	1.7	20
131	Compression based entropy estimation of heart rate variability on multiple time scales. , 2013, 2013, 5037-40.		5
132	Increased variability in respiratory parameters heralds obstructive events in children with sleep disordered breathing. , 2013, 2013, 2024-7.		2
133	Sleep Spindle Activity and Cognitive Performance in Healthy Children. Sleep, 2013, 36, 237-243.	1.1	94
134	Beat-to-Beat Vectorcardiographic Analysis of Ventricular Depolarization and Repolarization in Myocardial Infarction. PLoS ONE, 2012, 7, e49489.	2.5	26
135	Joint symbolic dynamics as a model-free approach to study interdependence in cardio-respiratory time series. , 2012, 2012, 3680-3.		3
136	Thoraco-abdominal asynchrony in children during quiet sleep using Hilbert transform. , 2012, 2012, 3448-51.		4
137	Relation between Beat-to-Beat QT Interval Variability and T-wave Amplitude in Healthy Subjects. Annals of Noninvasive Electrocardiology, 2012, 17, 195-203.	1.1	32
138	Characteristics of ectopic triggers associated with paroxysmal and persistent atrial fibrillation: Evidence for a changing role. Heart Rhythm, 2012, 9, 1367-1374.	0.7	13
139	Joint symbolic dynamics as an effective approach for quantification of cardio-respiratory interaction in patients with obstructive sleep apnea syndrome. , 2012, , .		1
140	Effect of spontaneous arousals on cardio-respiratory interaction in healthy children. , 2012, 2012, 45-8.		2
141	Multiscale time irreversibility of heart rate and blood pressure variability during orthostasis. Physiological Measurement, 2012, 33, 1747-1756.	2.1	33
142	Multiscale entropy and detrended fluctuation analysis of QT interval and heart rate variability during normal pregnancy. Computers in Biology and Medicine, 2012, 42, 347-352.	7.0	54
143	Beat-to-beat spatial and temporal analysis for QRS-T morphology. , 2012, 2012, 4193-5.		5
144	Respiratory timing and variability during sleep in children with sleep-disordered breathing. Journal of Applied Physiology, 2012, 113, 1635-1642.	2.5	21

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145	Electro-mechanical characteristics of myocardial infarction border zones and ventricular arrhythmic risk: novel insights from grid-tagged cardiac magnetic resonance imaging. <i>European Radiology</i> , 2012, 22, 1651-1658.	4.5	10
146	Conventional QT Variability Measurement vs. Template Matching Techniques: Comparison of Performance Using Simulated and Real ECG. <i>PLoS ONE</i> , 2012, 7, e41920.	2.5	47
147	Effect of Postural Changes on Cardiorespiratory Coordination in Humans. <i>International Journal of Computer and Electrical Engineering</i> , 2012, , .	0.2	0
148	Influence of age on cardio-respiratory interaction assessed by joint symbolic dynamics. , 2011, , .		1
149	Cardiac repolarization variability in patients with postural tachycardia syndrome during graded head-up tilt. <i>Clinical Neurophysiology</i> , 2011, 122, 405-409.	1.5	19
150	Nonlinear PD2i heart rate complexity algorithm detects autonomic neuropathy in patients with type 1 diabetes mellitus. <i>Clinical Neurophysiology</i> , 2011, 122, 1457-1462.	1.5	14
151	Altered cardio-respiratory response to spontaneous cortical arousals in children with upper airway obstruction. <i>Sleep Medicine</i> , 2011, 12, 230-238.	1.6	21
152	The effect of orthostatic stress on multiscale entropy of heart rate and blood pressure. <i>Physiological Measurement</i> , 2011, 32, 1425-1437.	2.1	69
153	Quantification of Cardiorespiratory Interactions Based on Joint Symbolic Dynamics. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2604-2614.	2.5	45
154	Baroreflex analysis in diabetes mellitus: linear and nonlinear approaches. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 279-288.	2.8	28
155	Time delay correction of the synchrogram for optimized detection of cardiorespiratory coordination. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 1249-1259.	2.8	6
156	Quantification of cardio-respiratory interactions in healthy children during night-time sleep using joint symbolic dynamics. , 2011, 2011, 1459-62.		1
157	Relation between QT interval variability and cardiac sympathetic activity in hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1412-H1417.	3.2	80
158	Advanced Poincaré plot analysis differentiates between hypertensive pregnancy disorders. <i>Physiological Measurement</i> , 2011, 32, 1611-1622.	2.1	14
159	Cardiorespiratory response to spontaneous cortical arousals during stage 2 and rapid eye movement sleep in healthy children. <i>Journal of Sleep Research</i> , 2010, 19, 415-424.	3.2	19
160	Cardiorespiratory Phase-Coupling Is Reduced in Patients with Obstructive Sleep Apnea. <i>PLoS ONE</i> , 2010, 5, e10602.	2.5	58
161	Altered interactions of heart rate and blood pressure during normal and abnormal pregnancy. , 2010, 2010, 1695-8.		7
162	Longitudinal changes in QT interval variability and rate adaptation in pregnancies with normal and abnormal uterine perfusion. <i>Hypertension Research</i> , 2010, 33, 555-560.	2.7	28

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163	Respiratory pattern in awake rats: Effects of motor activity and of alerting stimuli. <i>Physiology and Behavior</i> , 2010, 101, 22-31.	2.1	72
164	Impact of movement on cardiorespiratory coordination in conscious rats. , 2010, 2010, 1938-41.		2
165	The effect of orthostasis on recurrence quantification analysis of heart rate and blood pressure dynamics. <i>Physiological Measurement</i> , 2009, 30, 29-41.	2.1	53
166	Short-term heart rate variability and cardiac norepinephrine spillover in patients with depression and panic disorder. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 297, H674-H679.	3.2	77
167	Arousal in obstructive sleep apnoea patients is associated with ECG RR and QT interval shortening and PR interval lengthening. <i>Journal of Sleep Research</i> , 2009, 18, 188-195.	3.2	24
168	Methods derived from nonlinear dynamics for analysing heart rate variability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 277-296.	3.4	435
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