

# Pablo laguna

## 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.

218  
papers

6,262  
citations

39  
h-index

73  
g-index

265  
ext. papers

7,499  
ext. citations

3.5  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
218	Estimation of potassium levels in hemodialysis patients by T wave nonlinear dynamics and morphology markers.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 143, 105304	7	0
217	QT variability unrelated to RR variability during stress testing for identification of coronary artery disease. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200261	3	1
216	Machine learning enables noninvasive prediction of atrial fibrillation driver location and acute pulmonary vein ablation success using the 12-lead ECG. <i>Cardiovascular Digital Health Journal</i> , <b>2021</b> , 2, 126-136	2	9
215	ECG-based monitoring of blood potassium concentration: Periodic versus principal component as lead transformation for biomarker robustness. <i>Biomedical Signal Processing and Control</i> , <b>2021</b> , 68, 102719	4.9	1
214	Characterization of Spatio-Temporal Cardiac Action Potential Variability at Baseline and Under Adrenergic Stimulation by Combined Unscented Kalman Filter and Double Greedy Dimension Reduction. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 276-288	7.2	0
213	Electrocardiogram Derived Respiratory Rate Using a Wearable Armband. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1056-1065	5	3
212	Photoplethysmographic Waveform Analysis for Autonomic Reactivity Assessment in Depression. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1273-1281	5	7
211	Characterization of T Wave Amplitude, Duration and Morphology Changes During Hemodialysis: Relationship With Serum Electrolyte Levels and Heart Rate. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2467-2478	5	2
210	Detection and Classification of Sleep Apnea and Hypopnea Using PPG and SpO Signals. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 1496-1506	5	15
209	Monitoring blood potassium concentration in hemodialysis patients by quantifying T-wave morphology dynamics. <i>Scientific Reports</i> , <b>2021</b> , 11, 3883	4.9	3
208	Cardiopulmonary coupling indices to assess weaning readiness from mechanical ventilation. <i>Scientific Reports</i> , <b>2021</b> , 11, 16014	4.9	0
207	Asthmatic subjects stratification using autonomic nervous system information. <i>Biomedical Signal Processing and Control</i> , <b>2021</b> , 69, 102802	4.9	
206	Location of Parasympathetic Innervation Regions From Electrograms to Guide Atrial Fibrillation Ablation Therapy: An Modeling Study. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 674197	4.6	0
205	Characterization of Atrial Propagation Patterns and Fibrotic Substrate With a Modified Omnipolar Electrogram Strategy in Multi-Electrode Arrays. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 674223	4.6	0
204	ECG Beat Representation and Delineation by Means of Variable Projection. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 2997-3008	5	7
203	The Added Value of Nonlinear Cardiorespiratory Coupling Indices in the Assessment of Depression. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2021</b> , 2021, 5473-5476	0.9	
202	Automatic Detection of Slow Conducting Channels during Substrate Ablation of Scar-Related Ventricular Arrhythmias. <i>Journal of Interventional Cardiology</i> , <b>2020</b> , 2020, 4386841	1.8	

201	A Comparative Study of ECG-derived Respiration in Ambulatory Monitoring using the Single-lead ECG. <i>Scientific Reports</i> , <b>2020</b> , 10, 5704	4.9	28
200	. <i>IEEE Access</i> , <b>2020</b> , 8, 188488-188502	3.5	0
199	ECG-Derived Respiratory Rate in Atrial Fibrillation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 905-914	5	8
198	Wearable Armband Device for Daily Life Electrocardiogram Monitoring. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 3464-3473	5	18
197	Assessment of ventricular repolarization instability in terms of T-wave alternans induced by head-down bed-rest immobilization. <i>Physiological Measurement</i> , <b>2019</b> , 40, 104001	2.9	2
196	Human Emotion Characterization by Heart Rate Variability Analysis Guided by Respiration. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 2446-2454	7.2	5
195	Baroreflex Sensitivity Measured by Pulse Photoplethysmography. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 339	5.1	7
194	Quantification of Ventricular Repolarization Variation for Sudden Cardiac Death Risk Stratification in Atrial Fibrillation. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2019</b> , 23, 1049-1057	7.2	2
193	Measuring acute stress response through physiological signals: towards a quantitative assessment of stress. <i>Medical and Biological Engineering and Computing</i> , <b>2019</b> , 57, 271-287	3.1	29
192	Assessment of Quadratic Nonlinear Cardiorespiratory Couplings During Tilt-Table Test by Means of Real Wavelet Biphase. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 187-198	5	5
191	Mutual information between heart rate variability and respiration for emotion characterization. <i>Physiological Measurement</i> , <b>2019</b> , 40, 084001	2.9	7
190	Monitoring breathing rate by fusing the physiological impact of respiration on video-photoplethysmogram with head movements. <i>Physiological Measurement</i> , <b>2019</b> , 40, 094002	2.9	4
189	Cardiovascular Predictive Value and Genetic Basis of Ventricular Repolarization Dynamics. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2019</b> , 12, e007549	6.4	6
188	Feasibility of Long-Term Daily Life Electrocardiogram Monitoring Based on a Wearable Armband Device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 4314-4317	0.9	5
187	Effect of yoga on pulse rate variability measured from a venous pressure waveform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2019</b> , 2019, 372-375	0.9	2
186	A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1443-1451	5	15
185	Eigenvalue-based time delay estimation of repetitive biomedical signals <b>2018</b> , 75, 107-119		2
184	Computational techniques for ECG analysis and interpretation in light of their contribution to medical advances. <i>Journal of the Royal Society Interface</i> , <b>2018</b> , 15,	4.1	92

183	Post-Ventricular Premature Contraction Phase Correction Improves the Predictive Value of Average T-Wave Alternans in Ambulatory ECG Recordings. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 635-644	5	5
182	Automatic activation mapping and origin identification of idiopathic outflow tract ventricular arrhythmias. <i>Journal of Electrocardiology</i> , <b>2018</b> , 51, 239-246	1.4	1
181	Methodological framework for heart rate variability analysis during exercise: application to running and cycling stress testing. <i>Medical and Biological Engineering and Computing</i> , <b>2018</b> , 56, 781-794	3.1	11
180	Distinct ECG Phenotypes Identified in Hypertrophic Cardiomyopathy Using Machine Learning Associate With Arrhythmic Risk Markers. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 213	4.6	36
179	Quantification of T-wave Morphological Variability Using Time-warping Methods. <i>IFMBE Proceedings</i> , <b>2018</b> , 478-481	0.2	
178	Validity of Venous Waveform Signal for Heart Rate Variability Monitoring <b>2018</b> ,		1
177	Pilot Study on Electrocardiogram Derived Respiratory Rate Using a Wearable Armband <b>2018</b> ,		7
176	Respiratory Rate Derived from Pulse Photoplethysmographic Signal by Pulse Decomposition Analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5282-5285	0.9	3
175	Extraction of f Waves. <i>Series in Bioengineering</i> , <b>2018</b> , 137-220	0.7	2
174	Assessment of respiratory flow cycle morphology in patients with chronic heart failure. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 245-255	3.1	6
173	On the Influence of Heart Rate and Coupling Interval Prematurity on Heart Rate Turbulence. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 302-309	5	1
172	Variability of Ventricular Repolarization Dispersion Quantified by Time-Warping the Morphology of the T-Waves. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 1619-1630	5	20
171	T-Wave Morphology Restitution Predicts Sudden Cardiac Death in Patients With Chronic Heart Failure. <i>Journal of the American Heart Association</i> , <b>2017</b> , 6,	6	19
170	A Two Step Gaussian Modelling to Assess PPG Morphological Variability Induced by Psychological Stress <b>2017</b> ,		2
169	Sudden cardiac death and pump failure death prediction in chronic heart failure by combining ECG and clinical markers in an integrated risk model. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186152	3.7	26
168	Time-Frequency Analysis of Cardiovascular Signals and Their Dynamic Interactions <b>2017</b> , 257-287		4
167	Pulse Rate and Transit Time Analysis to Predict Hypotension Events After Spinal Anesthesia During Programmed Cesarean Labor. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 2253-2263	4.7	13
166	A Multi-Variate Predictability Framework to Assess Invasive Cardiac Activity and Interactions During Atrial Fibrillation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 1157-1168	5	11

165	Relative peripheral blood volume changes induced by premature ectopic beats and their role in hemodialysis. <i>Biomedical Signal Processing and Control</i> , <b>2017</b> , 31, 524-528	4.9	
164	Respiratory Rate Detection Using a Camera as Contactless Sensor <b>2017</b> ,		3
163	Comparison of ECG T-wave Duration and Morphology Restitution Markers for Sudden Cardiac Death Prediction in Chronic Heart Failure <b>2017</b> ,		1
162	Weightlessness and Cardiac Rhythm Disorders: Current Knowledge from Space Flight and Bed-Rest Studies. <i>Frontiers in Astronomy and Space Sciences</i> , <b>2016</b> , 3,	3.8	8
161	Heart morphology differences induced by intrauterine growth restriction and preterm birth measured on the ECG at preadolescent age. <i>Journal of Electrocardiology</i> , <b>2016</b> , 49, 401-9	1.4	6
160	Ischemia detection from morphological QRS angle changes. <i>Physiological Measurement</i> , <b>2016</b> , 37, 1004-239		8
159	Techniques for Ventricular Repolarization Instability Assessment From the ECG. <i>Proceedings of the IEEE</i> , <b>2016</b> , 104, 392-415	14.3	24
158	Drowsiness detection using heart rate variability. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 927-37	3.1	134
157	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> , <b>2016</b> , 18, 925-44	3.9	129
156	Inclusion of Respiratory Frequency Information in Heart Rate Variability Analysis for Stress Assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 1016-25	7.2	76
155	Spatiotemporal model-based estimation of high-density atrial fibrillation activation maps <b>2016</b> , 54, 64-74		2
154	Automatic SVM classification of sudden cardiac death and pump failure death from autonomic and repolarization ECG markers. <i>Journal of Electrocardiology</i> , <b>2015</b> , 48, 551-7	1.4	20
153	Identification of patients prone to hypotension during hemodialysis based on the analysis of cardiovascular signals. <i>Medical Engineering and Physics</i> , <b>2015</b> , 37, 1156-61	2.4	3
152	ECG-based estimation of dispersion of APD restitution as a tool to stratify sotalol-induced arrhythmic risk. <i>Journal of Electrocardiology</i> , <b>2015</b> , 48, 867-73	1.4	7
151	Evaluation of T-wave alternans activity under stress conditions after 5 d and 21 d of sedentary head-down bed rest. <i>Physiological Measurement</i> , <b>2015</b> , 36, 2041-55	2.9	4
150	<b>2015</b> ,		2
149	Human emotion recognition using heart rate variability analysis with spectral bands based on respiration. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 6134-7	0.9	26
148	Respiratory rate derived from smartphone-camera-acquired pulse photoplethysmographic signals. <i>Physiological Measurement</i> , <b>2015</b> , 36, 2317-33	2.9	18

147	Evaluation of ventricular repolarization dispersion during acute myocardial ischemia: spatial and temporal ECG indices. <i>Medical and Biological Engineering and Computing</i> , <b>2014</b> , 52, 375-91	3.1	13
146	QT/RR and T-peak-to-end/RR curvatures and slopes in chronic heart failure: relation to sudden cardiac death. <i>Journal of Electrocardiology</i> , <b>2014</b> , 47, 842-8	1.4	11
145	Prediction of hypotension in hemodialysis patients. <i>Physiological Measurement</i> , <b>2014</b> , 35, 1885-98	2.9	14
144	A wavelet-based electrogram onset delineator for automatic ventricular activation mapping. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2014</b> , 61, 2830-9	5	12
143	Electrocardiogram derived respiratory rate from QRS slopes and R-wave angle. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 2072-83	4.7	39
142	Smartphone-camera-acquired pulse photoplethysmographic signal for deriving respiratory rate <b>2014</b> ,		4
141	Detection of body position changes from the ECG using a Laplacian noise model. <i>Biomedical Signal Processing and Control</i> , <b>2014</b> , 14, 189-196	4.9	7
140	Transient and rapid QRS-widening associated with a J-wave pattern predicts impending ventricular fibrillation in experimental myocardial infarction. <i>Heart Rhythm</i> , <b>2014</b> , 11, 1195-201	6.7	23
139	The STAFF III ECG database and its significance for methodological development and evaluation. <i>Journal of Electrocardiology</i> , <b>2014</b> , 47, 408-17	1.4	10
138	2D ECG differences in frontal vs preferential planes in patients referred for percutaneous transluminal coronary angioplasty. <i>Biomedical Signal Processing and Control</i> , <b>2014</b> , 11, 97-106	4.9	4
137	Real time QRS detection based on M-ary likelihood ratio test on the DFT coefficients. <i>PLoS ONE</i> , <b>2014</b> , 9, e110629	3.7	4
136	Modeling and quantification of repolarization feature dependency on heart rate. <i>Methods of Information in Medicine</i> , <b>2014</b> , 53, 324-8	1.5	3
135	Non-linear HRV indices under autonomic nervous system blockade. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 3252-5	0.9	13
134	Assessing instantaneous QT variability dynamics within a point-process nonlinear framework <b>2014</b> ,		2
133	Assessing real-time RR-QT frequency-domain measures of coupling and causality through inhomogeneous point-process bivariate models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2014</b> , 2014, 6475-8	0.9	3
132	A novel method to capture the onset of dynamic electrocardiographic ischemic changes and its implications to arrhythmia susceptibility. <i>Journal of the American Heart Association</i> , <b>2014</b> , 3, e001055	6	11
131	Methodological framework for estimating the correlation dimension in HRV signals. <i>Computational and Mathematical Methods in Medicine</i> , <b>2014</b> , 2014, 129248	2.8	15
130	Pulse rate variability analysis for discrimination of sleep-apnea-related decreases in the amplitude fluctuations of pulse photoplethysmographic signal in children. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2014</b> , 18, 240-6	7.2	79

129	Heart Rate Variability in Pregnant Women before Programmed Cesarean Intervention. <i>IFMBE Proceedings</i> , <b>2014</b> , 710-713	0.2	2
128			
127	Influence of running stride frequency in heart rate variability analysis during treadmill exercise testing. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 1796-805	5	22
126	Deriving respiration from photoplethysmographic pulse width. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 233-42	3.1	87
125	Signal Processing Guided by Physiology: Making the Most of Cardiorespiratory Signals [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , <b>2013</b> , 30, 136-142	9.4	2
124	Detection and quantification of acute myocardial ischemia by morphologic evaluation of QRS changes by an angle-based method. <i>Journal of Electrocardiology</i> , <b>2013</b> , 46, 204-14	1.4	20
123	Impaired T-wave amplitude adaptation to heart-rate induced by cardiac deconditioning after 5-days of head-down bed-rest. <i>Acta Astronautica</i> , <b>2013</b> , 91, 166-172	2.9	4
122	T wave alternans in experimental myocardial infarction: time course and predictive value for the assessment of myocardial damage. <i>Journal of Electrocardiology</i> , <b>2013</b> , 46, 263-9	1.4	6
121	Heart rate turbulence analysis based on photoplethysmography. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2013</b> , 60, 3149-55	5	36
120	Prognostic value of average T-wave alternans and QT variability for cardiac events in MADIT-II patients. <i>Journal of Electrocardiology</i> , <b>2013</b> , 46, 480-6	1.4	13
119	Electrocardiogram derived respiration from QRS slopes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 3913-6	0.9	5
118	Very low frequency modulation in QRS slopes and its relation with respiration and heart rate variability during hemodialysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 5315-9	0.9	
117	Respiration effect on wavelet-based ECG T-wave end delineation strategies. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 1818-28	5	12
116	Characterization of dynamic interactions between cardiovascular signals by time-frequency coherence. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2012</b> , 59, 663-73	5	78
115	Average T-wave alternans activity in ambulatory ECG records predicts sudden cardiac death in patients with chronic heart failure. <i>Heart Rhythm</i> , <b>2012</b> , 9, 383-9	6.7	28
114	Letter to the Editor Average T-wave alternans activity in ambulatory electrocardiogram records: Commentary on the relationship with T-wave amplitude and T-wave alternans regionality. <i>Heart Rhythm</i> , <b>2012</b> , 9, e6-e7	6.7	
113	A multivariate time-frequency method to characterize the influence of respiration over heart period and arterial pressure. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2012</b> , 2012,	1.9	19
112	Characterization of ventricular depolarization and repolarization changes in a porcine model of myocardial infarction. <i>Physiological Measurement</i> , <b>2012</b> , 33, 1975-91	2.9	2

111	Synthesis of HRV signals characterized by predetermined time-frequency structure by means of time-varying ARMA models. <i>Biomedical Signal Processing and Control</i> , <b>2012</b> , 7, 141-150	4.9	21
110	The Na <sup>+</sup> /K <sup>+</sup> pump is an important modulator of refractoriness and rotor dynamics in human atrial tissue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 302, H1146-59	5.2	39
109	Assessment of the dynamic interactions between heart rate and arterial pressure by the cross time-frequency analysis. <i>Physiological Measurement</i> , <b>2012</b> , 33, 315-31	2.9	40
108	Microgravity effects on ventricular response to heart rate changes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 3424-7	0.9	2
107	Time-frequency phase differences and phase locking to characterize dynamic interactions between cardiovascular signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 4689-92	0.9	1
106	Selection of Nonstationary Dynamic Features for Obstructive Sleep Apnoea Detection in Children. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2011</b> , 2011,	1.9	11
105	A human ventricular cell model for investigation of cardiac arrhythmias under hyperkalaemic conditions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2011</b> , 369, 4205-32	3	37
104	Influence of time-varying mean heart rate in coronary artery disease diagnostic performance of heart rate variability indices from exercise stress testing. <i>Journal of Electrocardiology</i> , <b>2011</b> , 44, 445-52	1.4	10
103	Evaluation of depolarization changes during acute myocardial ischemia by analysis of QRS slopes. <i>Journal of Electrocardiology</i> , <b>2011</b> , 44, 416-24	1.4	18
102	Depolarization changes during acute myocardial ischemia by evaluation of QRS slopes: standard lead and vectorial approach. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 110-20	5	31
101	Quantification of restitution dispersion from the dynamic changes of the T-wave peak to end, measured at the surface ECG. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 1172-82	5	34
100	The integral pulse frequency modulation model with time-varying threshold: application to heart rate variability analysis during exercise stress testing. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2011</b> , 58, 642-52	5	59
99	Sleep apnoea detection in children using PPG envelope-based dynamic 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> , <b>2011</b> , 2011, 1483-6	0.9	0
98	ECG-based detection of body position changes using a Laplacian noise model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 6931-4	0.9	2
97	Factors influencing differences between invasive and spontaneous baroreflex estimates: distinct methods or different data?. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2011</b> , 2011, 2554-7	0.9	
96	Time-varying spectral analysis for comparison of HRV and PPG variability during tilt table test. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 3579-82	0.9	8
95	Photoplethysmography pulse rate variability as a surrogate measurement of heart rate variability during non-stationary conditions. <i>Physiological Measurement</i> , <b>2010</b> , 31, 1271-90	2.9	281
94	Respiration effect on single and multi lead ECG delineation strategies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2010</b> , 2010, 3575-8	0.9	3



93	Mechanisms of ventricular rate adaptation as a predictor of arrhythmic risk. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 298, H1577-87	5.2	57
92	Dynamic assessment of spontaneous baroreflex sensitivity by means of time-frequency analysis using either RR or pulse interval 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> , <b>2010</b> , 2010, 1630-3	0.9	8
91	Analysis of heart rate variability during exercise stress testing using respiratory information. <i>Biomedical Signal Processing and Control</i> , <b>2010</b> , 5, 299-310	4.9	36
90	A multilead scheme based on periodic component analysis for T-wave alternans analysis in the ECG. <i>Annals of Biomedical Engineering</i> , <b>2010</b> , 38, 2532-41	4.7	27
89	Detection performance and risk stratification using a model-based shape index characterizing heart rate turbulence. <i>Annals of Biomedical Engineering</i> , <b>2010</b> , 38, 3173-84	4.7	10
88	A method for continuously assessing the autonomic response to music-induced emotions through HRV analysis. <i>Medical and Biological Engineering and Computing</i> , <b>2010</b> , 48, 423-33	3.1	65
87	Model-based detection of heart rate turbulence using mean shape information. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 334-42	5	12
86	PTT variability for discrimination of sleep apnea related decreases in the amplitude fluctuations of PPG signal in children. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1079-88	5	56
85	Discrimination between ischemic and artifactual ST segment events in Holter recordings. <i>Biomedical Signal Processing and Control</i> , <b>2010</b> , 5, 21-31	4.9	10
84	BioSigBrowser, biosignal processing interface <b>2009</b> ,		2
83	Discrimination of sleep-apnea-related decreases in the amplitude fluctuations of PPG signal in children by HRV analysis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1005-14	5	43
82	Multilead analysis of T-wave alternans in the ECG using principal component analysis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1880-90	5	51
81	Multilead ECG delineation using spatially projected leads from wavelet transform loops. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1996-2005	5	26
80	Time domain baroreflex sensitivity assessment by joint analysis of spontaneous SBP and RR series. <i>Biomedical Signal Processing and Control</i> , <b>2009</b> , 4, 254-261	4.9	12
79	Cardiac repolarization analysis using the surface electrocardiogram. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 213-33	3	24
78	Model-based detection of heart rate turbulence. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 2712-22	5	10
77	QRS slopes for detection and characterization of myocardial ischemia. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2008</b> , 55, 468-77	5	56
76	Detection of obstructive sleep apnea in children using decreases in the amplitude fluctuations of PPG signal and HRV. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 3479-83	0.9	1

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