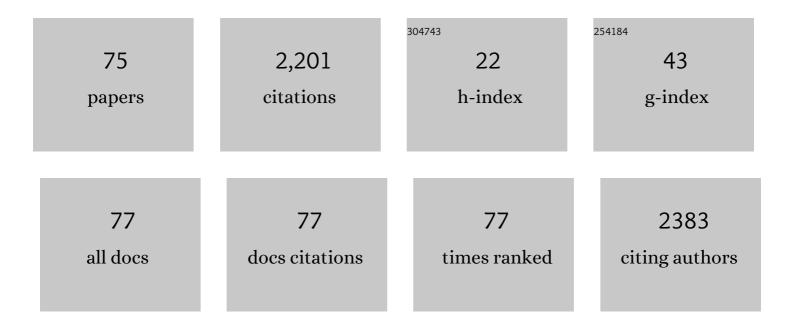
Raquel BailÃ³n

List of Publications by Year in descending order

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ΡΑΟΠΕΙ ΒΛΙΙ Δ3Ν

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Drowsiness detection using heart rate variability. Medical and Biological Engineering and Computing, 2016, 54, 927-937. | 2.8 | 191 |
| 2 | A Robust Method for ECG-Based Estimation of the Respiratory Frequency During Stress Testing. IEEE Transactions on Biomedical Engineering, 2006, 53, 1273-1285. | 4.2 | 142 |
| 3 | Validation of the Apple Watch for Heart Rate Variability Measurements during Relax and Mental Stress in Healthy Subjects. Sensors, 2018, 18, 2619. | 3.8 | 135 |
| 4 | Inclusion of Respiratory Frequency Information in Heart Rate Variability Analysis for Stress Assessment. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1016-1025. | 6.3 | 123 |
| 5 | Deriving respiration from photoplethysmographic pulse width. Medical and Biological Engineering and Computing, 2013, 51, 233-242. | 2.8 | 112 |
| 6 | Characterization of Dynamic Interactions Between Cardiovascular Signals by Time-Frequency Coherence. IEEE Transactions on Biomedical Engineering, 2012, 59, 663-673. | 4.2 | 101 |
| 7 | A method for continuously assessing the autonomic response to music-induced emotions through HRV analysis. Medical and Biological Engineering and Computing, 2010, 48, 423-433. | 2.8 | 96 |
| 8 | Validation of Heart Rate Monitor Polar RS800 for Heart Rate Variability Analysis During Exercise. Journal of Strength and Conditioning Research, 2018, 32, 716-725. | 2.1 | 95 |
| 9 | The Integral Pulse Frequency Modulation Model With Time-Varying Threshold: Application to Heart Rate Variability Analysis During Exercise Stress Testing. IEEE Transactions on Biomedical Engineering, 2011, 58, 642-652. | 4.2 | 85 |
| 10 | Measuring acute stress response through physiological signals: towards a quantitative assessment of stress. Medical and Biological Engineering and Computing, 2019, 57, 271-287. | 2.8 | 77 |
| 11 | PTT Variability for Discrimination of Sleep Apnea Related Decreases in the Amplitude Fluctuations of PPG Signal in Children. IEEE Transactions on Biomedical Engineering, 2010, 57, 1079-1088. | 4.2 | 67 |
| 12 | A Comparative Study of ECG-derived Respiration in Ambulatory Monitoring using the Single-lead ECG. Scientific Reports, 2020, 10, 5704. | 3.3 | 65 |
| 13 | Electrocardiogram Derived Respiratory Rate from QRS Slopes and R-Wave Angle. Annals of Biomedical Engineering, 2014, 42, 2072-2083. | 2.5 | 59 |
| 14 | Analysis of Heart Rate Variability Using Time-Varying Frequency Bands Based on Respiratory Frequency. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6675-8. | 0.5 | 44 |
| 15 | Analysis of heart rate variability during exercise stress testing using respiratory information. Biomedical Signal Processing and Control, 2010, 5, 299-310. | 5.7 | 41 |
| 16 | Human emotion recognition using heart rate variability analysis with spectral bands based on respiration. , 2015, 2015, 6134-7. | | 38 |
| 17 | Feasibility and safety of virtual-reality-based early neurocognitive stimulation in critically ill patients. Annals of Intensive Care, 2017, 7, 81. | 4.6 | 34 |
| 18 | Unconstrained Estimation of HRV Indices After Removing Respiratory Influences From Heart Rate. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2386-2397. | 6.3 | 34 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Validity of the Polar H7 Heart Rate Sensor for Heart Rate Variability Analysis during Exercise in Different Age, Body Composition and Fitness Level Groups. Sensors, 2021, 21, 902. | 3.8 | 31 |
| 20 | Influence of Running Stride Frequency in Heart Rate Variability Analysis During Treadmill Exercise Testing. IEEE Transactions on Biomedical Engineering, 2013, 60, 1796-1805. | 4.2 | 29 |
| 21 | Photoplethysmographic Waveform Analysis for Autonomic Reactivity Assessment in Depression. IEEE Transactions on Biomedical Engineering, 2021, 68, 1273-1281. | 4.2 | 29 |
| 22 | Influence of Heart Rate in Non-linear HRV Indices as a Sampling Rate Effect Evaluated on Supine and Standing. Frontiers in Physiology, 2016, 7, 501. | 2.8 | 26 |
| 23 | Reliability of Lagged Poincaré Plot Parameters in Ultrashort Heart Rate Variability Series: Application on Affective Sounds. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 741-749. | 6.3 | 26 |
| 24 | Acute Stress State Classification Based on Electrodermal Activity Modeling. IEEE Transactions on Affective Computing, 2023, 14, 788-799. | 8.3 | 26 |
| 25 | Fitbeat: COVID-19 estimation based on wristband heart rate using a contrastive convolutional auto-encoder. Pattern Recognition, 2022, 123, 108403. | 8.1 | 26 |
| 26 | Synthesis of HRV signals characterized by predetermined time-frequency structure by means of time-varying ARMA models. Biomedical Signal Processing and Control, 2012, 7, 141-150. | 5.7 | 23 |
| 27 | Methodological Framework for Estimating the Correlation Dimension in HRV Signals. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-11. | 1.3 | 22 |
| 28 | Prediction of hypotension in hemodialysis patients. Physiological Measurement, 2014, 35, 1885-1898. | 2.1 | 21 |
| 29 | A Time-Varying Nonparametric Methodology for Assessing Changes in QT Variability Unrelated to Heart Rate Variability. IEEE Transactions on Biomedical Engineering, 2018, 65, 1443-1451. | 4.2 | 21 |
| 30 | Heart Rate Variability and Exceptional Longevity. Frontiers in Physiology, 2020, 11, 566399. | 2.8 | 21 |
| 31 | A multivariate time-frequency method to characterize the influence of respiration over heart period and arterial pressure. Eurasip Journal on Advances in Signal Processing, 2012, 2012, . | 1.7 | 20 |
| 32 | Mutual information between heart rate variability and respiration for emotion characterization. Physiological Measurement, 2019, 40, 084001. | 2.1 | 20 |
| 33 | Pulse Rate and Transit Time Analysis to Predict Hypotension Events After Spinal Anesthesia During Programmed Cesarean Labor. Annals of Biomedical Engineering, 2017, 45, 2253-2263. | 2.5 | 19 |
| 34 | Separating the effect of respiration on the heart rate variability using Granger's causality and linear filtering. Biomedical Signal Processing and Control, 2017, 31, 272-287. | 5.7 | 19 |
| 35 | Non-linear HRV indices under autonomic nervous system blockade. , 2014, 2014, 3252-5. | | 18 |
| 36 | Methodological framework for heart rate variability analysis during exercise: application to running and cycling stress testing. Medical and Biological Engineering and Computing, 2018, 56, 781-794. | 2.8 | 18 |

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|----|--|-----|-----------|
| 37 | Nocturnal Heart Rate Variability Spectrum Characterization in Preschool Children With Asthmatic Symptoms. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1332-1340. | 6.3 | 16 |
| 38 | Human Emotion Characterization by Heart Rate Variability Analysis Guided by Respiration. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2446-2454. | 6.3 | 15 |
| 39 | Respiration Effect on Wavelet-Based ECG T-Wave End Delineation Strategies. IEEE Transactions on Biomedical Engineering, 2012, 59, 1818-1828. | 4.2 | 13 |
| 40 | Autonomic Dysfunction Increases Cardiovascular Risk in the Presence of Sleep Apnea. Frontiers in Physiology, 2019, 10, 620. | 2.8 | 13 |
| 41 | Baroreflex Sensitivity Measured by Pulse Photoplethysmography. Frontiers in Neuroscience, 2019, 13, 339. | 2.8 | 13 |
| 42 | Electrocardiogram Derived Respiratory Rate Using a Wearable Armband. IEEE Transactions on Biomedical Engineering, 2021, 68, 1056-1065. | 4.2 | 13 |
| 43 | Time-varying spectral analysis for comparison of HRV and PPG variability during tilt table test. , 2010, 2010, 3579-82. | | 12 |
| 44 | Model-Based Evaluation of Methods for Respiratory Sinus Arrhythmia Estimation. IEEE Transactions on Biomedical Engineering, 2021, 68, 1882-1893. | 4.2 | 12 |
| 45 | Influence of time-varying mean heart rate in coronary artery disease diagnostic performance of heart rate variability indices from exercise stress testing. Journal of Electrocardiology, 2011, 44, 445-452. | 0.9 | 11 |
| 46 | Detection of Walk Tests in Free-Living Activities Using a Wrist-Worn Device. Frontiers in Physiology, 2021, 12, 706545. | 2.8 | 11 |
| 47 | Assessment of Quadratic Nonlinear Cardiorespiratory Couplings During Tilt-Table Test by Means of Real Wavelet Biphase. IEEE Transactions on Biomedical Engineering, 2019, 66, 187-198. | 4.2 | 10 |
| 48 | Heart morphology differences induced by intrauterine growth restriction and preterm birth measured on the ECG at preadolescent age. Journal of Electrocardiology, 2016, 49, 401-409. | 0.9 | 9 |
| 49 | Electrocardiogram-Derived Tidal Volume During Treadmill Stress Test. IEEE Transactions on Biomedical Engineering, 2020, 67, 193-202. | 4.2 | 9 |
| 50 | Dynamic assessment of spontaneous baroreflex sensitivity by means of time-frequency analysis using either RR or pulse interval variability. , 2010, 2010, 1630-3. | | 8 |
| 51 | The Effect of Emotional Valence on Ventricular Repolarization Dynamics Is Mediated by Heart Rate Variability: A Study of QT Variability and Music-Induced Emotions. Frontiers in Physiology, 2019, 10, 1465. | 2.8 | 8 |
| 52 | Electrocardiogram derived respiration from QRS slopes. , 2013, 2013, 3913-6. | | 7 |
| 53 | On the Standardization of Approximate Entropy: Multidimensional Approximate Entropy Index Evaluated on Short-Term HRV Time Series. Complexity, 2018, 2018, 1-15. | 1.6 | 7 |
| 54 | Noninvasive Cardiorespiratory Signals Analysis for Asthma Evolution Monitoring in Preschool Children. IEEE Transactions on Biomedical Engineering, 2019, 67, 1-1. | 4.2 | 7 |

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| # | Article | IF | CITATIONS |
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| 55 | Changes in respiration during emotional stress. , 2015, , . | | 5 |
| 56 | Time-Frequency Analysis of Cardiovascular Signals and Their Dynamic Interactions. , 2017, , 257-287. | | 5 |
| 57 | Effect of yoga on pulse rate variability measured from a venous pressure waveform. , 2019, 2019, 372-375. | | 5 |
| 58 | Cardiopulmonary coupling indices to assess weaning readiness from mechanical ventilation. Scientific Reports, 2021, 11, 16014. | 3.3 | 5 |
| 59 | Estimation of the second ventilatory threshold through ventricular repolarization profile analysis. Scandinavian Journal of Medicine and Science in Sports, 2021, 31, 339-349. | 2.9 | 4 |
| 60 | Effects of a 75-km mountain ultra-marathon on heart rate variability in amateur runners. Journal of Sports Medicine and Physical Fitness, 2020, 60, 1401-1407. | 0.7 | 4 |
| 61 | Identification of patients prone to hypotension during hemodialysis based on the analysis of cardiovascular signals. Medical Engineering and Physics, 2015, 37, 1156-1161. | 1.7 | 3 |
| 62 | Respiratory Rate Derived from Pulse Photoplethysmographic Signal by Pulse Decomposition Analysis. , 2018, 2018, 5282-5285. | | 3 |
| 63 | ECG Ventricular Repolarization Dynamics during Exercise: Temporal Profile, Relation to Heart Rate Variability and Effects of Age and Physical Health. International Journal of Environmental Research and Public Health, 2021, 18, 9497. | 2.6 | 3 |
| 64 | Time-frequency phase differences and phase locking to characterize dynamic interactions between cardiovascular signals. , 2011, 2011, 4689-92. | | 2 |
| 65 | Signal Processing Guided by Physiology: Making the Most of Cardiorespiratory Signals [Life Sciences]. IEEE Signal Processing Magazine, 2013, 30, 136-142. | 5.6 | 2 |
| 66 | Validity of Venous Waveform Signal for Heart Rate Variability Monitoring. , 2018, , . | | 2 |
| 67 | Two-Dimensional EspEn: A New Approach to Analyze Image Texture by Irregularity. Entropy, 2021, 23, 1261. | 2.2 | 2 |
| 68 | Ventilatory Thresholds Estimation Based on ECG-derived Respiratory Rate. , 2021, , . | | 2 |
| 69 | Electrocardiogram Derived Respiratory Rate from QRS Slopes and R-Wave Angle. , 2014, 42, 2072. | | 1 |
| 70 | QT variability unrelated to RR variability during stress testing for identification of coronary artery disease. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200261. | 3.4 | 1 |
| 71 | Nonlinear Dynamics of Heart Rate Variability in Children with Asthmatic Symptoms. IFMBE Proceedings, 2018, , 815-818. | 0.3 | 1 |
| 72 | Very low frequency modulation in QRS slopes and its relation with respiration and heart rate variability during hemodialysis. , 2013, 2013, 5365-8. | | 0 |

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| 73 | Autonomic nervous system assessment in critically ill patients undergoing a cognitive rehabilitation therapy. , 2015, , . | | 0 |
| 74 | Asthmatic subjects stratification using autonomic nervous system information. Biomedical Signal Processing and Control, 2021, 69, 102802. | 5.7 | 0 |
| 75 | The Added Value of Nonlinear Cardiorespiratory Coupling Indices in the Assessment of Depression. , 2021, 2021, 5473-5476. | | 0 |