

Bertien Buyse

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,020
citations

758635

12
h-index

552369

26
g-index

51
all docs

51
docs citations

51
times ranked

1138
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Novel Algorithm for the Automatic Detection of Sleep Apnea From Single-Lead ECG. IEEE Transactions on Biomedical Engineering, 2015, 62, 2269-2278. | 2.5 | 246 |
| 2 | Definition, discrimination, diagnosis and treatment of central breathing disturbances during sleep. European Respiratory Journal, 2017, 49, 1600959. | 3.1 | 239 |
| 3 | Noninvasive Ventilation Improves Sleep in Amyotrophic Lateral Sclerosis: A Prospective Polysomnographic Study. Journal of Clinical Sleep Medicine, 2015, 11, 559-566. | 1.4 | 72 |
| 4 | A Comparative Study of ECG-derived Respiration in Ambulatory Monitoring using the Single-lead ECG. Scientific Reports, 2020, 10, 5704. | 1.6 | 65 |
| 5 | Automatic Screening of Sleep Apnea Patients Based on the SpO ₂ Signal. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 607-617. | 3.9 | 55 |
| 6 | Detection and Classification of Sleep Apnea and Hypopnea Using PPG and SpO ₂ Signals. IEEE Transactions on Biomedical Engineering, 2021, 68, 1496-1506. | 2.5 | 39 |
| 7 | Artefact detection and quality assessment of ambulatory ECG signals. Computer Methods and Programs in Biomedicine, 2019, 182, 105050. | 2.6 | 38 |
| 8 | Noninvasive ventilation in amyotrophic lateral sclerosis: effects on sleep quality and quality of life. Acta Clinica Belgica, 2016, 71, 389-394. | 0.5 | 31 |
| 9 | Evaluation of a Commercial Ballistocardiography Sensor for Sleep Apnea Screening and Sleep Monitoring. Sensors, 2019, 19, 2133. | 2.1 | 29 |
| 10 | Robust artefact detection in long-term ECG recordings based on autocorrelation function similarity and percentile analysis. , 2012, 2012, 3151-4. | | 22 |
| 11 | Physical activity and exercise in obstructive sleep apnea. Acta Clinica Belgica, 2019, 74, 92-101. | 0.5 | 21 |
| 12 | Randomized crossover trial of ventilator modes during noninvasive ventilation titration in amyotrophic lateral sclerosis. Respirology, 2017, 22, 1212-1218. | 1.3 | 20 |
| 13 | Upper Airway Obstruction during Noninvasive Ventilation Induced by the Use of an Oronasal Mask. Journal of Clinical Sleep Medicine, 2014, 10, 1033-1035. | 1.4 | 19 |
| 14 | Sleep Apnea Hypopnea Syndrome classification in SpO ₂ signals using wavelet decomposition and phase space reconstruction. , 2017, , . | | 13 |
| 15 | Obstructive sleep apnea in head and neck cancer survivors. Supportive Care in Cancer, 2021, 29, 279-287. | 1.0 | 12 |
| 16 | Feasibility of diaphragm pacing in patients after bilateral lung transplantation. Clinical Transplantation, 2017, 31, e13134. | 0.8 | 10 |
| 17 | Multilevel Interval Coded Scoring to Assess the Cardiovascular Status of Sleep Apnea Patients Using Oxygen Saturation Markers. IEEE Transactions on Biomedical Engineering, 2020, 67, 2839-2848. | 2.5 | 9 |
| 18 | Sleep Diagnostics for Home Monitoring of Sleep Apnea Patients. Frontiers in Digital Health, 2021, 3, 685766. | 1.5 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Sleep Apnea Detection Using Pulse Photoplethysmography. , 0, , . | | 8 |
| 20 | Benchmarking Transfer Entropy Methods for the Study of Linear and Nonlinear Cardio-Respiratory Interactions. <i>Entropy</i> , 2021, 23, 939. | 1.1 | 8 |
| 21 | Capacitively-coupled ECG and respiration for the unobtrusive detection of sleep apnea. <i>Physiological Measurement</i> , 2021, 42, 024001. | 1.2 | 7 |
| 22 | ECG Artefact Detection Using Ensemble Decision Trees. , 0, , . | | 6 |
| 23 | High adherence to continuous positive airway pressure (CPAP) in patients with obstructive sleep apnea (OSA) in Belgium: a narrative review. <i>Acta Clinica Belgica</i> , 2022, 77, 710-720. | 0.5 | 6 |
| 24 | Pulse Photoplethysmography Derived Respiration for Obstructive Sleep Apnea Detection. , 0, , . | | 5 |
| 25 | Linear and Non-linear Quantification of the Respiratory Sinus Arrhythmia Using Support Vector Machines. <i>Frontiers in Physiology</i> , 2021, 12, 623781. | 1.3 | 4 |
| 26 | Respiratory decline in adult patients with Becker muscular dystrophy: A longitudinal study. <i>Neuromuscular Disorders</i> , 2021, 31, 174-182. | 0.3 | 4 |
| 27 | Positional obstructive sleep apnoea: challenging findings in consecutive patients treated with a vibrating position trainer. <i>Acta Clinica Belgica</i> , 2019, 74, 405-413. | 0.5 | 3 |
| 28 | Capacitively-Coupled ECG and Respiration for Sleep-Wake Prediction and Risk Detection in Sleep Apnea Patients. <i>Sensors</i> , 2021, 21, 6409. | 2.1 | 3 |
| 29 | Assessing Cardiovascular Comorbidities in Sleep Apnea Patients Using SpO ₂ . , 0, , . | | 2 |
| 30 | Evaluation of Methods to Characterize the Change of the Respiratory Sinus Arrhythmia with Age in Sleep Apnea Patients. , 2019, 2019, 1588-1591. | | 2 |
| 31 | Automatic quality assessment of capacitively-coupled bioimpedance signals for respiratory activity monitoring. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102775. | 3.5 | 2 |
| 32 | Technical aspects of cardiorespiratory estimation using subspace projections and cross entropy. <i>Physiological Measurement</i> , 2021, 42, 115008. | 1.2 | 2 |
| 33 | Supervised SVM Transfer Learning for Modality-Specific Artefact Detection in ECG. <i>Sensors</i> , 2021, 21, 662. | 2.1 | 2 |
| 34 | Sleep-Wake Classification for Home Monitoring of Sleep Apnea Patients. , 0, , . | | 2 |
| 35 | Unobtrusive, through-clothing ECG and Bioimpedance Monitoring in Sleep Apnea Patients. , 0, , . | | 2 |
| 36 | Evaluation of a Continuous ECG Quality Indicator Based on the Autocorrelation Function. , 0, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Sleep Monitoring in Adults Using Wearables and Unobtrusive Technology. , 2022, , 181-228. | | 1 |
| 38 | A Robust Estimation of the Cardiorespiratory Coupling in the Presence of Abnormal Beats. , 0, , . | | 1 |
| 39 | And the Doctor Continues: â€œâ€¦ But I Have to Choose My Gear Wiselyâ€¦ Journal of Clinical Sleep Medicine, 2016, 12, 1203-1204. | 1.4 | 0 |
| 40 | Possible influence of <scp>AMPD</scp>1 on cholinergic neurotransmission and sleep. Journal of Sleep Research, 2016, 25, 124-126. | 1.7 | 0 |
| 41 | Obstructive sleep apnea in Hutchinson-Gilford progeria. Sleep Medicine, 2020, 66, 21-23. | 0.8 | 0 |
| 42 | Impact of insomnia on exercise capacity and quality of life in patients with pulmonary arterial hypertension. , 2017, , . | | 0 |
| 43 | Pulmonary arterial pressure predicts nocturnal hypoxemia in CTEPH patients.. , 2018, , . | | 0 |
| 44 | Respiratory Sinus Arrhythmia in Apnea Patients With Apnea Associated Comorbidities. , 0, , . | | 0 |
| 45 | Unsupervised Artefact Detection and Screening Using Emfit Sensor in Patients With Sleep Apnea. , 0, , . | | 0 |
| 46 | The Cardiorespiratory Graph in Sleep Apnea and Associated Comorbidities. , 0, , . | | 0 |
| 47 | Sleep apnea after lung transplantation: a cohort study. , 2020, , . | | 0 |
| 48 | Telecoaching to improve physical activity in patients with obstructive sleep apnea treated with CPAP. , 2020, , . | | 0 |
| 49 | Cardiovascular Risk Detection in Sleep Apnea Patients from Pulse Photoplethysmography Waveform. , 2021, , . | | 0 |