

# Raimon Jan

## List of Publications by Citations

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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.

117  
papers

2,017  
citations

23  
h-index

42  
g-index

122  
ext. papers

2,391  
ext. citations

2.6  
avg, IF

4.66  
L-index

#	Paper	IF	Citations
117	Automatic detection of wave boundaries in multilead ECG signals: validation with the CSE database. <i>Journal of Biomedical Informatics</i> , <b>1994</b> , 27, 45-60		328
116	New algorithm for QT interval analysis in 24-hour Holter ECG: performance and applications. <i>Medical and Biological Engineering and Computing</i> , <b>1990</b> , 28, 67-73	3.1	159
115	Acoustic analysis of snoring sound in patients with simple snoring and obstructive sleep apnoea. <i>European Respiratory Journal</i> , <b>1996</b> , 9, 2365-70	13.6	120
114	Adaptive filter for event-related bioelectric signals using an impulse correlated reference input: comparison with signal averaging techniques. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1992</b> , 39, 1032-44	5.2	111
113	Time-frequency detection and analysis of wheezes during forced exhalation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 182-6	5	76
112	Alignment methods for averaging of high-resolution cardiac signals: a comparative study of performance. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1991</b> , 38, 571-9	5	65
111	Continuous analysis and monitoring of snores and their relationship to the apnea-hypopnea index. <i>Laryngoscope</i> , <b>2010</b> , 120, 854-62	3.6	51
110	Detection of wheezing during maximal forced exhalation in patients with obstructed airways. <i>Chest</i> , <b>2002</b> , 122, 186-91	5.3	49
109	Multiclass classification of subjects with sleep apnoea-hypopnoea syndrome through snoring analysis. <i>Medical Engineering and Physics</i> , <b>2012</b> , 34, 1213-20	2.4	40
108	Automatic Differentiation of Normal and Continuous Adventitious Respiratory Sounds Using Ensemble Empirical Mode Decomposition and Instantaneous Frequency. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 486-97	7.2	39
107	Improvement in Neural Respiratory Drive Estimation From Diaphragm Electromyographic Signals Using Fixed Sample Entropy. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2016</b> , 20, 476-85	7.2	37
106	Acoustic analysis of vowel emission in obstructive sleep apnea. <i>Chest</i> , <b>1993</b> , 104, 1093-6	5.3	35
105	Analysis of tracheal sounds during forced exhalation in asthma patients and normal subjects: bronchodilator response effect. <i>Chest</i> , <b>1999</b> , 116, 633-8	5.3	33
104	Evidence towards improved estimation of respiratory muscle effort from diaphragm mechanomyographic signals with cardiac vibration interference using sample entropy with fixed tolerance values. <i>PLoS ONE</i> , <b>2014</b> , 9, e88902	3.7	31
103	Correntropy-based spectral characterization of respiratory patterns in patients with chronic heart failure. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1964-72	5	30
102	Low-pass differentiators for biological signals with known spectra: application to ECG signal processing. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1990</b> , 37, 420-5	5	30
101	Analysis of forced wheezes in asthma patients. <i>Respiration</i> , <b>2006</b> , 73, 55-60	3.7	29

100	Improved alignment method for noisy high-resolution ECG and Holter records using multiscale cross-correlation. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2003</b> , 50, 344-53	5	29
99	Performance evaluation of the Hilbert-Huang transform for respiratory sound analysis and its application to continuous adventitious sound characterization. <i>Signal Processing</i> , <b>2016</b> , 120, 99-116	4.4	26
98	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. <i>Stem Cell Reports</i> , <b>2019</b> , 13, 207-220	8	26
97	Index for estimation of muscle force from mechanomyography based on the Lempel-Ziv algorithm. <i>Journal of Electromyography and Kinesiology</i> , <b>2013</b> , 23, 548-57	2.5	24
96	Wearable Bioimpedance Measurement for Respiratory Monitoring During Inspiratory Loading. <i>IEEE Access</i> , <b>2019</b> , 7, 89487-89496	3.5	23
95	The adaptive linear combiner with a periodic-impulse reference input as a linear comb filter. <i>Signal Processing</i> , <b>1996</b> , 48, 193-203	4.4	23
94	Orthonormal (Fourier and Walsh) models of time-varying evoked potentials in neurological injury. <i>IEEE Transactions on Biomedical Engineering</i> , <b>1993</b> , 40, 213-21	5	23
93	All night analysis of time interval between snores in subjects with sleep apnea hypopnea syndrome. <i>Medical and Biological Engineering and Computing</i> , <b>2012</b> , 50, 373-81	3.1	21
92	Detecting unilateral phrenic paralysis by acoustic respiratory analysis. <i>PLoS ONE</i> , <b>2014</b> , 9, e93595	3.7	20
91	Influence of Parameter Selection in Fixed Sample Entropy of Surface Diaphragm Electromyography for Estimating Respiratory Activity. <i>Entropy</i> , <b>2017</b> , 19, 460	2.8	19
90	Study of myographic signals from sternomastoid muscle in patients with chronic obstructive pulmonary disease. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2000</b> , 47, 674-81	5	18
89	Usefulness of an expandable interbody spacer for the treatment of foraminal stenosis in extremely collapsed disks: preliminary clinical experience with endoscopic posterolateral transforaminal approach. <i>Journal of Spinal Disorders and Techniques</i> , <b>2011</b> , 24, 485-91		18
88	Efficiency of mechanical activation of inspiratory muscles in COPD using sample entropy. <i>European Respiratory Journal</i> , <b>2015</b> , 46, 1808-11	13.6	17
87	ECG signal compression plus noise filtering with truncated orthogonal expansions. <i>Signal Processing</i> , <b>1999</b> , 79, 97-115	4.4	17
86	An invasive and a noninvasive approach for the automatic differentiation of obstructive and central hypopneas. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2010</b> , 57, 1927-36	5	15
85	Surface mechanomyography and electromyography provide non-invasive indices of inspiratory muscle force and activation in healthy subjects. <i>Scientific Reports</i> , <b>2018</b> , 8, 16921	4.9	15
84	Onset and Offset Estimation of the Neural Inspiratory Time in Surface Diaphragm Electromyography: A Pilot Study in Healthy Subjects. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 67-76	7.2	14
83	Interpretation of the approximate entropy using fixed tolerance values as a measure of amplitude variations in biomedical 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>2010</b> , 2010, 5967-70	0.9	14

82	Sleep apnea detection based on spectral analysis of three ECG - derived respiratory 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>2009</b> , 2009, 4723-6	0.9	14
81	Chest Movement and Respiratory Volume both Contribute to Thoracic Bioimpedance during Loaded Breathing. <i>Scientific Reports</i> , <b>2019</b> , 9, 20232	4.9	14
80	Assessment of changes in upper airway obstruction by automatic identification of inspiratory flow limitation during sleep. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 2006-15	5	13
79	Breathing pattern characterization in chronic heart failure patients using the respiratory flow signal. <i>Annals of Biomedical Engineering</i> , <b>2010</b> , 38, 3572-80	4.7	13
78	Automatic classification of subjects with and without sleep apnea through snoring analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 6094-7		11
77	Karhunen-Loève transform as a tool to analyze the ST-segment. Comparison with QT interval. <i>Journal of Electrocardiology</i> , <b>1995</b> , 28 Suppl, 41-9	1.4	11
76	mHealth tools for monitoring Obstructive Sleep Apnea patients at home: Proof-of-concept. <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>2017</b> , 2017, 1555-1558	0.9	10
75	Respiratory signal derived from the smartphone built-in accelerometer during a Respiratory Load Protocol. <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, 6768-71	0.9	10
74	Identification of Obstructive Sleep Apnea patients from tracheal breath sound analysis during wakefulness in polysomnographic studies. <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, 4337-5	0.9	10
73	Noninvasive measurement of inspiratory muscle performance by means of diaphragm muscle mechanomyographic signals in COPD patients during an incremental load respiratory 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, 3102-6	0.9	10
72	Snoring analysis for the screening of Sleep Apnea Hypopnea Syndrome with a single-channel device developed using polysomnographic and snoring databases. <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, 3331-3	0.9	10
71	Multistate Lempel-Ziv (MLZ) index interpretation as a measure of amplitude and complexity 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>2009</b> , 2009, 4375-8	0.9	10
70	Inspiratory pressure evaluation by means of the entropy of respiratory mechanomyographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 5735-8		10
69	Combining Bioimpedance and Myographic Signals for the Assessment of COPD During Loaded Breathing. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2021</b> , 68, 298-307	5	10
68	. <i>IEEE Access</i> , <b>2020</b> , 8, 71231-71244	3.5	9
67	. <i>IEEE Access</i> , <b>2019</b> , 7, 128224-128241	3.5	9
66	Evaluation of the respiratory muscular function by means of diaphragmatic mechanomyographic signals in COPD patients. <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>2009</b> , 2009, 3925-8	0.9	9
65	Estimation of instantaneous frequency from empirical mode decomposition on respiratory sounds 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>2013</b> , 2013, 981-4	0.9	8

64	Rnyi entropy and Lempel-Ziv complexity of mechanomyographic recordings of diaphragm muscle as indexes of respiratory effort. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 2112-5</i>	0.9	8
63	Application of the empirical mode decomposition method to the analysis of respiratory mechanomyographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1566-9</i>		8
62	Non-invasive monitoring of diaphragmatic timing by means of surface contact sensors: an experimental study in dogs. <i>BMC Pulmonary Medicine, 2004, 4, 8</i>	3.5	8
61	Inspiratory muscle activation increases with COPD severity as confirmed by non-invasive mechanomyographic analysis. <i>PLoS ONE, 2017, 12, e0177730</i>	3.7	8
60	Novel approach to continuous adventitious respiratory sound analysis for the assessment of bronchodilator response. <i>PLoS ONE, 2017, 12, e0171455</i>	3.7	7
59	Assessment of respiratory flow cycle morphology in patients with chronic heart failure. <i>Medical and Biological Engineering and Computing, 2017, 55, 245-255</i>	3.1	6
58	Time-varying signal analysis to detect high-altitude periodic breathing in climbers ascending to extreme altitude. <i>Medical and Biological Engineering and Computing, 2015, 53, 699-712</i>	3.1	6
57	Evaluating respiratory muscle activity using a wireless sensor platform. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 5769-5772</i>	0.9	6
56	EMG-Derived Respiration Signal Using the Fixed Sample Entropy during an Inspiratory Load Protocol. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 1703-6</i>	0.9	6
55	Characterization of laplacian surface electromyographic signals during isometric contraction in biceps brachii. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2013, 2013, 525-8</i>	0.9	6
54	Analysis of QRS loop in the Vectorcardiogram of patients with Chagas' disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 2561-4</i>	0.9	6
53	. <i>IEEE Transactions on Signal Processing, 1994, 42, 3224-3229</i>	4.8	6
52	Evaluation of a Wearable Device to Determine Cardiorespiratory Parameters From Surface Diaphragm Electromyography. <i>IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1964-1971</i>	7.2	6
51	Electromyography-Based Respiratory Onset Detection in COPD Patients on Non-Invasive Mechanical Ventilation. <i>Entropy, 2019, 21,</i>	2.8	5
50	Performance Evaluation of Fixed Sample Entropy in Myographic Signals for Inspiratory Muscle Activity Estimation. <i>Entropy, 2019, 21,</i>	2.8	5
49	Cardiorespiratory Phase Synchronization in OSA subjects during wake and sleep states. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015, 2015, 7708-11</i>	0.9	5
48	Respiratory rate detection by empirical mode decomposition method applied to diaphragm mechanomyographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3204-7</i>	0.9	5
47	An energy-based detection algorithm of epileptic seizures in EEG records. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 1384-7</i>	0.9	5

46	Characterization of periodic and non-periodic breathing pattern in chronic heart failure patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2008, 2008, 3227-30</i>	0.9	5
45	Detection and adaptive cancellation of heart sound interference in tracheal sounds. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, 2006, 2860-3</i>		5
44	Non-linear HRV Analysis to Quantify the Effects of Intermittent Hypoxia Using an OSA Rat Model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 4994-4997</i>	0.9	5
43	Characterization of microphones for snoring and breathing events analysis in mHealth. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 1547-1550</i>	0.9	4
42	Relationship between heart rate excursion and apnea duration in patients with Obstructive Sleep Apnea. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 1539-1542</i>	0.9	4
41	Correntropy-based nonlinearity test applied to patients with chronic heart failure. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2010, 2010, 2399-402</i>	0.9	4
40	Bayes classification of snoring subjects with and without Sleep Apnea Hypopnea Syndrome, using a Kernel method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 6071-4</i>	0.9	4
39	Correntropy-based analysis of respiratory patterns in patients with chronic heart failure. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 4687-90</i>	0.9	4
38	Time-varying respiratory pattern characterization in chronic heart failure patients and healthy subjects. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 4007-10</i>	0.9	4
37	Noninvasive Assessment of Inspiratory Muscle Neuromechanical Coupling During Inspiratory Threshold Loading. <i>IEEE Access, 2019, 7, 183634-183646</i>	3.5	4
36	Assessment of Respiratory Muscle Activity with Surface Electromyographic Signals Acquired by Concentric Ring Electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 3350-3353</i>	0.9	4
35	Evaluation of Laplacian diaphragm electromyographic recording in a dynamic inspiratory maneuver. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 2201-4</i>	0.9	3
34	Analysis of QRS loop changes in the beat-to-beat Vectocardiogram of ischemic patients undergoing PTCA. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2009, 2009, 1750-3</i>	0.9	3
33	Analysis of the respiratory flow cycle morphology in chronic heart failure patients applying principal components analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 1075-8</i>	0.9	3
32	Automatic Silence Events Detector from Smartphone Audio Signals: A Pilot mHealth System for Sleep Apnea Monitoring at Home. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 4992-4995</i>	0.9	3
31	Automatic Event Detector from Smartphone Accelerometry: Pilot mHealth Study for Obstructive Sleep Apnea Monitoring at Home. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 1000-1000</i>	0.9	3
30	Neural Offset Time Evaluation in Surface Respiratory Signals during Controlled Respiration. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 2344-2347</i>	0.9	2
29	Eigenvalue-based time delay estimation of repetitive biomedical signals <b>2018, 75, 107-119</b>		2

28	Characterization of a tooth microphone coupled to an oral appliance device: A new system for monitoring OSA patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2017, 2017, 1543-1546</i>	0.9	2
27	Evaluation and adaptive attenuation of the cardiac vibration interference in mechanomyographic signals. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2012, 2012, 3400-3</i>	0.9	2
26	Assessment of trunk flexion in arm reaching tasks with electromyography and smartphone accelerometry in healthy human subjects. <i>Scientific Reports, 2021, 11, 5363</i>	4.9	2
25	Time-frequency representations of the sternocleidomastoid muscle electromyographic signal recorded with concentric ring electrodes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 3785-3788</i>	0.9	2
24	Evaluation of Respiratory Muscle Activity by Means of Concentric Ring Electrodes. <i>IEEE Transactions on Biomedical Engineering, 2021, 68, 1005-1014</i>	5	2
23	Assessment of Inspiratory Muscle Activation using Surface Diaphragm Mechanomyography and Crural Diaphragm Electromyography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 3312-3315</i>	0.9	2
22	Identifying Muscle Synergies From Reaching and Grasping Movements in Rats. <i>IEEE Access, 2020, 8, 62513-62530</i>	3.5	2
21	Engineering sleep disorders: from classical CPAP devices toward new intelligent adaptive ventilatory therapy. <i>IEEE Pulse, 2014, 5, 29-32</i>	0.7	1
20	Estimation of bilateral asynchrony between diaphragm mechanomyographic signals in patients with chronic obstructive pulmonary disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014, 2014, 3813-6</i>	0.9	1
19	Enhanced Monitoring of Sleep Position in Sleep Apnea Patients: Smartphone Triaxial Accelerometry Compared with Video-Validated Position from Polysomnography. <i>Sensors, 2021, 21,</i>	3.8	1
18	Linear Mixed Effects Modelling of Oxygen Desaturation after Sleep Apneas and Hypopneas: A Pilot Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 5731-5734</i>	0.9	1
17	Analysis of Time Delay between Bioimpedance and Respiratory Volume Signals under Inspiratory Loaded Breathing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019,</i>	0.9	1
16	Class Imbalance Impact on the Prediction of Complications during Home Hospitalization: A Comparative Study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 3446-3449</i>	0.9	1
15	. <i>IEEE Access, 2021, 9, 19043-19052</i>	3.5	1
14	Noninvasive Assessment of Neuromechanical Coupling and Mechanical Efficiency of Parasternal Intercostal Muscle during Inspiratory Threshold Loading. <i>Sensors, 2021, 21,</i>	3.8	1
13	Detection of Respiratory Phases to Estimate Breathing Pattern Parameters using Wearable Bioimpedance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2021,</i>	0.9	1
12	Evaluation of the respiratory muscles efficiency during an incremental flow respiratory test. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2011, 2011, 3820-3</i>	0.9	0
11	Treatment of Patients With Simple Snoring. <i>Archivos De Bronconeumologia, 2009, 45, 508-515</i>	0.7	0

10	Health Outcomes from Home Hospitalization: Multisource Predictive Modeling. <i>Journal of Medical Internet Research</i> , <b>2020</b> , 22, e21367	7.6	0
9	Evaluation of indirect measures of neural inspiratory time from invasive and noninvasive recordings of respiratory activity. <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>2020</b> , 2020, 2744-2747	0.9	
8	Spatial Distribution of Normal Lung Sounds in Healthy Individuals under Varied Inspiratory Load and Flow Conditions. <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>2020</b> , 2020, 2744-2747	0.9	
7	Study of phase estimation methods to analyse cardiorespiratory synchronization in OSA patients. <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>2016</b> , 2016, 4280-4283	0.9	
6	The natural history of the sleep and respiratory engineering track at EMBC 1988 to 2010. <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, 288-91	0.9	
5	Temporal Categorization of Upper Limb Muscle EMG Activity During Reaching and Grasping. <i>Biosystems and Biorobotics</i> , <b>2019</b> , 876-879	0.2	
4	Performance Evaluation of Fixed Sample Entropy for Lung Sound Intensity Estimation. <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>2020</b> , 2020, 2740-2743	0.9	
3	Analysis of Tracheal and Pulmonary Continuous Adventitious Respiratory Sounds in Asthma. <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, 4930-4933	0.9	
2	Relationship between Sleep Stages and HRV response in Obstructive Sleep Apnea Patients. <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, 5535-5538	0.9	
1	Assessment of the Non-linear Response of the fSampEn on Simulated EMG 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>2021</b> , 2021, 5582-5585	0.9	