

Raimon Jan

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.

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	Assessment of trunk flexion in arm reaching tasks with electromyography and smartphone accelerometry in healthy human subjects. <i>Scientific Reports</i> , 2021 , 11, 5363	4.9	2
116	Enhanced Monitoring of Sleep Position in Sleep Apnea Patients: Smartphone Triaxial Accelerometry Compared with Video-Validated Position from Polysomnography. <i>Sensors</i> , 2021 , 21,	3.8	1
115	Combining Bioimpedance and Myographic Signals for the Assessment of COPD During Loaded Breathing. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 298-307	5	10
114	Evaluation of Respiratory Muscle Activity by Means of Concentric Ring Electrodes. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1005-1014	5	2
113	. <i>IEEE Access</i> , 2021 , 9, 19043-19052	3.5	1
112	Noninvasive Assessment of Neuromechanical Coupling and Mechanical Efficiency of Parasternal Intercostal Muscle during Inspiratory Threshold Loading. <i>Sensors</i> , 2021 , 21,	3.8	1
111	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> , 2021 , 2021, 5535-5538	0.9	
110	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</i> , 2021 , 2021, 5508-5511	0.9	1
109	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> , 2021 , 2021, 5582-5585	0.9	
108	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> , 2020 , 2020, 2744-2747	0.9	
107	. <i>IEEE Access</i> , 2020 , 8, 71231-71244	3.5	9
106	Identifying Muscle Synergies From Reaching and Grasping Movements in Rats. <i>IEEE Access</i> , 2020 , 8, 62517-62530	3.5	6
105	Health Outcomes from Home Hospitalization: Multisource Predictive Modeling. <i>Journal of Medical Internet Research</i> , 2020 , 22, e21367	7.6	0
104	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> , 2020 , 2020, 2740-2743	0.9	
103	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</i> , 2019 , 2019, 2344-2347	0.9	2
102	Electromyography-Based Respiratory Onset Detection in COPD Patients on Non-Invasive Mechanical Ventilation. <i>Entropy</i> , 2019 , 21,	2.8	5
101	Performance Evaluation of Fixed Sample Entropy in Myographic Signals for Inspiratory Muscle Activity Estimation. <i>Entropy</i> , 2019 , 21,	2.8	5

100	Wearable Bioimpedance Measurement for Respiratory Monitoring During Inspiratory Loading. <i>IEEE Access</i> , 2019 , 7, 89487-89496	3.5	23
99	Engineered Macroscale Cardiac Constructs Elicit Human Myocardial Tissue-like Functionality. <i>Stem Cell Reports</i> , 2019 , 13, 207-220	8	26
98	. <i>IEEE Access</i> , 2019 , 7, 128224-128241	3.5	9
97	Temporal Categorization of Upper Limb Muscle EMG Activity During Reaching and Grasping. <i>Biosystems and Biorobotics</i> , 2019 , 876-879	0.2	
96	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> , 2019 , 2019, 4930-4933	0.9	
95	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</i> , 2019 , 2019, 5731-5734	0.9	1
94	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</i> , 2019 , 2019, 2365-2368	0.9	1
93	Noninvasive Assessment of Inspiratory Muscle Neuromechanical Coupling During Inspiratory Threshold Loading. <i>IEEE Access</i> , 2019 , 7, 183634-183646	3.5	4
92	Chest Movement and Respiratory Volume both Contribute to Thoracic Bioimpedance during Loaded Breathing. <i>Scientific Reports</i> , 2019 , 9, 20232	4.9	14
91	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</i> , 2019 , 2019, 3116-3118	0.9	1
90	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</i> , 2019 , 2019, 4982-4985	0.9	3
89	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</i> , 2019 , 2019, 4994-4997	0.9	5
88	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</i> , 2019 , 2019, 4990-4993	0.9	3
87	Evaluation of a Wearable Device to Determine Cardiorespiratory Parameters From Surface Diaphragm Electromyography. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 1964-1971	7.2	6
86	Eigenvalue-based time delay estimation of repetitive biomedical signals 2018 , 75, 107-119		2
85	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> , 2018 , 22, 67-76	7.2	14
84	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</i> , 2018 , 2018, 3312-3315	0.9	2
83	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</i> , 2018 , 2018, 3350-3353	0.9	4

82	Surface mechanomyography and electromyography provide non-invasive indices of inspiratory muscle force and activation in healthy subjects. <i>Scientific Reports</i> , 2018 , 8, 16921	4.9	15
81	Assessment of respiratory flow cycle morphology in patients with chronic heart failure. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 245-255	3.1	6
80	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</i> , 2017 , 2017, 1547-1550	0.9	4
79	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> , 2017 , 2017, 1551-1554	0.9	
78	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> , 2017 , 2017, 1555-1558	0.9	10
77	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</i> , 2017 , 2017, 1539-1542	0.9	4
76	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</i> , 2017 , 2017, 1543-1546	0.9	2
75	Influence of Parameter Selection in Fixed Sample Entropy of Surface Diaphragm Electromyography for Estimating Respiratory Activity. <i>Entropy</i> , 2017 , 19, 460	2.8	19
74	Novel approach to continuous adventitious respiratory sound analysis for the assessment of bronchodilator response. <i>PLoS ONE</i> , 2017 , 12, e0171455	3.7	7
73	Inspiratory muscle activation increases with COPD severity as confirmed by non-invasive mechanomyographic analysis. <i>PLoS ONE</i> , 2017 , 12, e0177730	3.7	8
72	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> , 2016 , 2016, 4280-4283	0.9	
71	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</i> , 2016 , 2016, 5769-5772	0.9	6
70	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> , 2016 , 20, 486-97	7.2	39
69	Improvement in Neural Respiratory Drive Estimation From Diaphragm Electromyographic Signals Using Fixed Sample Entropy. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016 , 20, 476-85	7.2	37
68	Performance evaluation of the Hilbert-Huang transform for respiratory sound analysis and its application to continuous adventitious sound characterization. <i>Signal Processing</i> , 2016 , 120, 99-116	4.4	26
67	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</i> , 2016 , 2016, 3785-3788	0.9	2
66	Time-varying signal analysis to detect high-altitude periodic breathing in climbers ascending to extreme altitude. <i>Medical and Biological Engineering and Computing</i> , 2015 , 53, 699-712	3.1	6
65	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</i> , 2015 , 2015, 7708-11	0.9	5

64	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
63	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, 2015, 2015, 6768-71</i>	0.9	10
62	Efficiency of mechanical activation of inspiratory muscles in COPD using sample entropy. <i>European Respiratory Journal, 2015, 46, 1808-11</i>	13.6	17
61	Engineering sleep disorders: from classical CPAP devices toward new intelligent adaptive ventilatory therapy. <i>IEEE Pulse, 2014, 5, 29-32</i>	0.7	1
60	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
59	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</i>	0.9	10
58	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, 2201-4</i>	0.9	5
57	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</i>	0.9	1
56	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, 2014, 9, e88902</i>	3.7	31
55	Detecting unilateral phrenic paralysis by acoustic respiratory analysis. <i>PLoS ONE, 2014, 9, e93595</i>	3.7	20
54	Index for estimation of muscle force from mechanomyography based on the Lempel-Ziv algorithm. <i>Journal of Electromyography and Kinesiology, 2013, 23, 548-57</i>	2.5	24
53	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, 2013, 2013, 981-4</i>	0.9	8
52	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, 535-8</i>	0.9	6
51	Multiclass classification of subjects with sleep apnoea-hypopnoea syndrome through snoring analysis. <i>Medical Engineering and Physics, 2012, 34, 1213-20</i>	2.4	40
50	All night analysis of time interval between snores in subjects with sleep apnea hypopnea syndrome. <i>Medical and Biological Engineering and Computing, 2012, 50, 373-81</i>	3.1	21
49	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
48	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</i>	0.9	10
47	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

46	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, 2011, 2011, 1725-8</i>	0.9	3
45	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
44	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, 2011, 24, 485-91</i>		18
43	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
42	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, 2010, 2010, 2493-6</i>	0.9	10
41	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, 2010, 2010, 288-91</i>	0.9	
40	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
39	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, 2010, 2010, 5967-70</i>	0.9	14
38	Breathing pattern characterization in chronic heart failure patients using the respiratory flow signal. <i>Annals of Biomedical Engineering, 2010, 38, 3572-80</i>	4.7	13
37	Correntropy-based spectral characterization of respiratory patterns in patients with chronic heart failure. <i>IEEE Transactions on Biomedical Engineering, 2010, 57, 1964-72</i>	5	30
36	An invasive and a noninvasive approach for the automatic differentiation of obstructive and central hypopneas. <i>IEEE Transactions on Biomedical Engineering, 2010, 57, 1927-36</i>	5	15
35	Continuous analysis and monitoring of snores and their relationship to the apnea-hypopnea index. <i>Laryngoscope, 2010, 120, 854-62</i>	3.6	51
34	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
33	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
32	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, 2009, 2009, 3925-8</i>	0.9	9
31	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, 2009, 2009, 4375-8</i>	0.9	10
30	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
29	Assessment of changes in upper airway obstruction by automatic identification of inspiratory flow limitation during sleep. <i>IEEE Transactions on Biomedical Engineering, 2009, 56, 2006-15</i>	5	13

28	Treatment of Patients With Simple Snoring. <i>Archivos De Bronconeumologia</i> , 2009 , 45, 508-515	0.7	0
27	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</i> , 2009 , 2009, 1384-7	0.9	5
26	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> , 2009 , 2009, 4723-6	0.9	14
25	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</i> , 2009 , 2009, 4723-6	0.9	8
24	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</i> , 2008 , 2008, 3227-30	0.9	5
23	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</i> , 2007 , 2007, 1566-9		8
22	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> , 2007 , 2007, 6094-7		11
21	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> , 2006 , 2006, 5735-8		10
20	Detection and adaptive cancellation of heart sound interference in tracheal sounds. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2860-3		5
19	Analysis of forced wheezes in asthma patients. <i>Respiration</i> , 2006 , 73, 55-60	3.7	29
18	Time-frequency detection and analysis of wheezes during forced exhalation. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 182-6	5	76
17	Non-invasive monitoring of diaphragmatic timing by means of surface contact sensors: an experimental study in dogs. <i>BMC Pulmonary Medicine</i> , 2004 , 4, 8	3.5	8
16	Improved alignment method for noisy high-resolution ECG and Holter records using multiscale cross-correlation. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 344-53	5	29
15	Detection of wheezing during maximal forced exhalation in patients with obstructed airways. <i>Chest</i> , 2002 , 122, 186-91	5.3	49
14	Study of myographic signals from sternomastoid muscle in patients with chronic obstructive pulmonary disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 674-81	5	18
13	Analysis of tracheal sounds during forced exhalation in asthma patients and normal subjects: bronchodilator response effect. <i>Chest</i> , 1999 , 116, 633-8	5.3	33
12	ECG signal compression plus noise filtering with truncated orthogonal expansions. <i>Signal Processing</i> , 1999 , 79, 97-115	4.4	17
11	Acoustic analysis of snoring sound in patients with simple snoring and obstructive sleep apnoea. <i>European Respiratory Journal</i> , 1996 , 9, 2365-70	13.6	120

10	The adaptive linear combiner with a periodic-impulse reference input as a linear comb filter. <i>Signal Processing</i> , 1996 , 48, 193-203	4.4	23
9	Karhunen-Loève transform as a tool to analyze the ST-segment. Comparison with QT interval. <i>Journal of Electrocardiology</i> , 1995 , 28 Suppl, 41-9	1.4	11
8	Automatic detection of wave boundaries in multilead ECG signals: validation with the CSE database. <i>Journal of Biomedical Informatics</i> , 1994 , 27, 45-60		328
7	. <i>IEEE Transactions on Signal Processing</i> , 1994 , 42, 3224-3229	4.8	6
6	Acoustic analysis of vowel emission in obstructive sleep apnea. <i>Chest</i> , 1993 , 104, 1093-6	5.3	35
5	Orthonormal (Fourier and Walsh) models of time-varying evoked potentials in neurological injury. <i>IEEE Transactions on Biomedical Engineering</i> , 1993 , 40, 213-21	5	23
4	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> , 1992 , 39, 1032-44	5.5	111
3	Alignment methods for averaging of high-resolution cardiac signals: a comparative study of performance. <i>IEEE Transactions on Biomedical Engineering</i> , 1991 , 38, 571-9	5	65
2	Low-pass differentiators for biological signals with known spectra: application to ECG signal processing. <i>IEEE Transactions on Biomedical Engineering</i> , 1990 , 37, 420-5	5	30
1	New algorithm for QT interval analysis in 24-hour Holter ECG: performance and applications. <i>Medical and Biological Engineering and Computing</i> , 1990 , 28, 67-73	3.1	159