

# Anna M Bianchi

## 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.

176  
papers

3,569  
citations

30  
h-index

54  
g-index

196  
ext. papers

4,145  
ext. citations

2.9  
avg, IF

4.8  
L-index

#	Paper	IF	Citations
176	Signal processing for cardiovascular applications in p-health <b>2022</b> , 85-118		
175	Respiratory Sinus Arrhythmia (RSA) stress response in preschool age varies by serotonin transporter polymorphism (5-HTTLPR): A preliminary report.. <i>Journal of Experimental Child Psychology</i> , <b>2022</b> , 219, 105413	2.3	0
174	Automatic detection of A-phase onsets based on convolutional neural networks. <i>Biomedical Signal Processing and Control</i> , <b>2022</b> , 77, 103800	4.9	
173	Heart rate variability analysis for the identification of the preictal interval in patients with drug-resistant epilepsy. <i>Scientific Reports</i> , <b>2021</b> , 11, 5987	4.9	3
172	Effective Connectivity During Rest and Music Listening: An EEG Study on Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , <b>2021</b> , 13, 657221	5.3	2
171	Assessing stress variations in children during the strange situation procedure: comparison of three widely used respiratory sinus arrhythmia estimation methods. <i>Physiological Measurement</i> , <b>2021</b> , 42,	2.9	1
170	ARTE Project: EEG Analysis During Robotic Rehabilitation. <i>IFMBE Proceedings</i> , <b>2020</b> , 755-760	0.2	1
169	Central Alpha Bicoherence Is Reduced in Photosensitive Subjects. <i>IFMBE Proceedings</i> , <b>2020</b> , 1123-1128	0.2	1
168	A novel spatiotemporal tool for the automatic classification of fMRI noise based on Independent Component 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>2020</b> , 2020, 1718-1721	0.9	0
167	Consumers Emotional Responses to Functional and Hedonic Products: A Neuroscience Research. <i>Frontiers in Psychology</i> , <b>2020</b> , 11, 559779	3.4	8
166	Bicoherence Interpretation in EEG Requires Signal to Noise Ratio Quantification: An Application to Sensorimotor Rhythms. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 2696-2704	5	6
165	EEG monitoring during software development <b>2020</b> ,		2
164	Exploration of the physiological response to an online gambling task by frequency domain analysis of the electrodermal 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> ,	0.9	1
163	Characterization of Microelectrode Recordings for the Subthalamic Nucleus identification in Parkinson's disease. <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> ,	0.9	1
162	An intra-operative feature-based classification of microelectrode recordings to support the subthalamic nucleus functional identification during deep brain stimulation surgery. <i>Journal of Neural Engineering</i> , <b>2020</b> ,	5	2
161	Multiscale Functional Clustering Reveals Frequency Dependent Brain Organization in Type II Focal Cortical Dysplasia With Sleep Hypermotor Epilepsy. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 2831-2839	5	3
160	Higher order spectral analysis of scalp EEG activity reveals non-linear behavior during rhythmic visual stimulation. <i>Journal of Neural Engineering</i> , <b>2019</b> , 16, 056028	5	2

159	Investigating the Optimal Baseline Positioning to Maximize Cognitive Experimental Outcome. <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, 4529-4532</i>	0.9	1
158	Optimization of the Cortical Traveling Wave Analysis framework for feasibility in Stereo-Electroencephalography. <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, 3654-3657</i>	0.9	1
157	Heart Rate Variability from Wearables: A Comparative Analysis Among Standard ECG, a Smart Shirt and a Wristband. <i>Studies in Health Technology and Informatics, 2019, 261, 128-133</i>	0.5	4
156	EEG indices correlate with sustained attention performance in patients affected by diffuse axonal injury. <i>Medical and Biological Engineering and Computing, 2018, 56, 991-1001</i>	3.1	11
155	Corrections to EEG Analysis During Active and Assisted Repetitive Movements: Evidence for Differences in Neural Engagement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 1311-1311</i>	4.8	
154	The putative role of neuronal network synchronization as a potential biomarker for bipolar disorder: A review of EEG studies. <i>Journal of Affective Disorders, 2017, 212, 167-170</i>	6.6	9
153	Functional Clustering approach for the analysis of Stereo-EEG activity patterns in correspondence of epileptic seizures. <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, 2806-2809</i>	0.9	1
152	Detection of the Sleep Stages Throughout Non-Obtrusive Measures of Inter-Beat Fluctuations and Motion: Night and Day Sleep of Female Shift Workers. <i>Fluctuation and Noise Letters, 2017, 16, 1750033</i>	1.2	1
151	EEG Analysis During Active and Assisted Repetitive Movements: Evidence for Differences in Neural Engagement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 761-771</i>	4.8	29
150	<b>2017,</b>		1
149	Integrated data analysis for the quantification of emotional responses during video observation <b>2017,</b>		2
148	Monosynaptic Reflexes and Preprogrammed Reactions in Down Syndrome: A Surface Electromyographic Study. <i>Journal of Policy and Practice in Intellectual Disabilities, 2016, 13, 157-164</i>	1.8	2
147	Healthy and tumoral tissue resistivity in wild-type and sparc-/- animal models. <i>Medical and Biological Engineering and Computing, 2016, 54, 1949-1957</i>	3.1	5
146	Investigation of the electrophysiological correlates of negative BOLD response during intermittent photic stimulation: An EEG-fMRI study. <i>Human Brain Mapping, 2016, 37, 2247-62</i>	5.9	11
145	ICA-derived cortical responses indexing rapid multi-feature auditory processing in six-month-old infants. <i>NeuroImage, 2016, 133, 75-87</i>	7.9	22
144	Analysis of A-phase transitions during the cyclic alternating pattern under normal sleep. <i>Medical and Biological Engineering and Computing, 2016, 54, 133-48</i>	3.1	18
143	Brain Circuitry Supporting Multi-Organ Autonomic Outflow in Response to Nausea. <i>Cerebral Cortex, 2016, 26, 485-97</i>	5.1	34
142	<b>2016,</b>		5

141	An Automated Function for Identifying EEG Independent Components Representing Bilateral Source Activity. <i>IFMBE Proceedings</i> , <b>2016</b> , 105-109	0.2	10
140	Neuroimaging brainstem circuitry supporting cardiovagal response to pain: a combined heart rate variability/ultrahigh-field (7 T) functional magnetic resonance imaging study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2016</b> , 374,	3	27
139	Challenges in personalized systems for Personal Health Care <b>2016</b> ,		2
138	The CardioRisk project: Improvement of cardiovascular risk assessment. <i>Journal of Computational Science</i> , <b>2015</b> , 9, 39-44	3.4	6
137	Quantification of long-term effects of botulinum injection in a case of cerebral palsy affecting the upper limb movement. <i>Developmental Neurorehabilitation</i> , <b>2015</b> , 18, 145-8	1.8	1
136	The addition of entropy-based regularity parameters improves sleep stage classification based on heart rate variability. <i>Medical and Biological Engineering and Computing</i> , <b>2015</b> , 53, 415-25	3.1	24
135	Multidimensional Processes: In Italy, biomedical signal and image processing embraces a multiparametric, multimodal, multiscale paradigm. <i>IEEE Pulse</i> , <b>2015</b> , 6, 44-9	0.7	1
134	Are Complexity Metrics Reliable in Assessing HRV Control in Obese Patients During Sleep?. <i>PLoS ONE</i> , <b>2015</b> , 10, e0124458	3.7	6
133	Combining sudomotor nerve impulse estimation with fMRI to investigate the central sympathetic response to nausea. <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, 4688-6	0.9	4
132	Application of higher-order spectral analysis to local field potentials recorded in patients treated with deep brain stimulation. <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, 5512-5	0.9	0
131	EEG-based index for engagement level monitoring during sustained attention. <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, 1512-5	0.9	23
130	Correlation between autonomous function and left ventricular performance after acute myocardial infarction. <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, 3343-6	0.9	2
129	Hemodynamic and EEG Time-Courses During Unilateral Hand Movement in Patients with Cortical Myoclonus. An EEG-fMRI and EEG-TD-fNIRS Study. <i>Brain Topography</i> , <b>2015</b> , 28, 915-25	4.3	20
128	Investigation of negative BOLD responses in human brain through NIRS technique. A visual stimulation study. <i>NeuroImage</i> , <b>2015</b> , 108, 410-22	7.9	28
127	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 1935-1943	5.2	23
126	Heart rate variability and cardio-respiratory coupling during sleep in patients prior to bariatric surgery. <i>Obesity Surgery</i> , <b>2014</b> , 24, 471-7	3.7	3
125	Heart rate variability and cardiorespiratory coupling in obstructive sleep apnea: elderly compared with young. <i>Sleep Medicine</i> , <b>2014</b> , 15, 1324-31	4.6	13
124	Acute effects of autoadjusting and fixed continuous positive airway pressure treatments on cardiorespiratory coupling in obese patients with obstructive sleep apnea. <i>European Journal of Internal Medicine</i> , <b>2014</b> , 25, 164-8	3.9	27

123	Constructing fMRI connectivity networks: a whole brain functional parcellation method for node definition. <i>Journal of Neuroscience Methods</i> , <b>2014</b> , 228, 86-99	3	11
122	Removal of pulse artefact from EEG data recorded in MR environment at 3T. Setting of ICA parameters for marking artefactual components: application to resting-state data. <i>PLoS ONE</i> , <b>2014</b> , 9, e112147	3.7	14
121	EEG-informed fMRI analysis during a hand grip task: estimating the relationship between EEG rhythms and the BOLD signal. <i>Frontiers in Human Neuroscience</i> , <b>2014</b> , 8, 186	3.3	14
120	Monitoring nocturnal heart rate with bed sensor. <i>Methods of Information in Medicine</i> , <b>2014</b> , 53, 308-13	1.5	10
119	Multimodal non-rigid registration methods based on local variability measures in computed tomography and magnetic resonance brain images. <i>IET Image Processing</i> , <b>2014</b> , 8, 699-707	1.7	5
118	Effects of the series length on Lempel-Ziv Complexity during sleep. <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, 693-6	0.9	3
117	Frequency-based approach to the study of semantic brain networks connectivity. <i>Journal of Neuroscience Methods</i> , <b>2013</b> , 212, 181-9	3	12
116	EEG segmentation for improving automatic CAP detection. <i>Clinical Neurophysiology</i> , <b>2013</b> , 124, 1815-23	4.3	17
115	Detection of sleep-disordered breathing with Pressure Bed Sensor. <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, 1342-5	0.9	4
114	Insomnia types and sleep microstructure dynamics. <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, 6167-70	0.9	4
113	Methods for heart rate variability analysis during sleep. <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, 6579-82	0.9	3
112	GLM analysis of time resolved NIRS data of motor activation during different motor tasks. <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, 1787-90	0.9	1
111	Independent Component Analysis of EEG-fMRI data for studying epilepsy and epileptic seizures. <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, 6011-4	0.9	2
110	Decision tree for smart feature extraction from sleep HR in bipolar 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>2013</b> , 2013, 5033-6	0.9	0
109	Parcel-based connectivity analysis of fMRI data for the study of epileptic seizure propagation. <i>Brain Topography</i> , <b>2012</b> , 25, 345-61	4.3	10
108	Deep and surface hemodynamic signal from functional time resolved transcranial near infrared spectroscopy compared to skin flowmotion. <i>Computers in Biology and Medicine</i> , <b>2012</b> , 42, 282-9	7	36
107	GMAC: a Matlab toolbox for spectral Granger causality analysis of fMRI data. <i>Computers in Biology and Medicine</i> , <b>2012</b> , 42, 943-56	7	15
106	Cyclic alternating patterns in normal sleep and insomnia: structure and content differences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2012</b> , 20, 642-52	4.8	21

105	Towards a biomarker of motor adaptation: integration of kinematic and neural factors. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2012</b> , 20, 258-67	4.8	12
104	Movement analysis and EEG recordings in children with hemiplegic cerebral palsy. <i>Experimental Brain Research</i> , <b>2012</b> , 223, 517-24	2.3	19
103	Efficient automatic classifiers for the detection of A phases of the cyclic alternating pattern in sleep. <i>Medical and Biological Engineering and Computing</i> , <b>2012</b> , 50, 359-72	3.1	28
102	From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. <i>Physiological Measurement</i> , <b>2012</b> , 33, 1379-97	2.9	9
101	Load-dependent brain activation assessed by time-domain functional near-infrared spectroscopy during a working memory task with graded levels of difficulty. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 056005	3.5	34
100	Cardiorespiratory coupling during sleep in difficult-to-control asthmatic 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>2012</b> , 2012, 3652-5	0.9	2
99	EEG-informed fMRI analysis during a hand grip task. <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, 4712-5	0.9	1
98	A novel method to assist the detection of the Cyclic Alternating Pattern (CAP). <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, 3656-9	0.9	2
97	Sleep-wake detection based on respiratory signal acquired through a pressure bed sensor. <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, 3452-5	0.9	10
96	Optimization of time-variant autoregressive models for tracking REM-non REM transitions during sleep. <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, 2236-9	0.9	1
95	Clinical state assessment in bipolar patients by means of HRV features obtained with a sensorized T-shirt. <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, 2240-3	0.9	9
94	Mesh-based approach for the 3D analysis of anatomical structures of interest in radiotherapy. <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, 6555-8	0.9	
93	Modulation of the Sympatho-Vagal Balance during Sleep: Frequency Domain Study of Heart Rate Variability and Respiration. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 45	4.6	61
92	Characterization of A phases during the cyclic alternating pattern of sleep. <i>Clinical Neurophysiology</i> , <b>2011</b> , 122, 2016-24	4.3	23
91	Biomedical signal and image processing. <i>IEEE Pulse</i> , <b>2011</b> , 2, 41-54	0.7	6
90	Assessment of the EEG complexity during activations from sleep. <i>Computer Methods and Programs in Biomedicine</i> , <b>2011</b> , 104, e16-28	6.9	25
89	Time-Variant Spectral Estimation <b>2011</b> , 259-288		3
88	Assessment of cortical response during motor task in adults by a multimodality approach based on fNIRS-EEG, fMRI-EEG, and TMS <b>2011</b> ,		1



87	Predicting EEG complexity from sleep macro and microstructure. <i>Physiological Measurement</i> , <b>2011</b> , 32, 1083-101	2.9	5
86	Automatic detection of CAP on central and fronto-central EEG leads via Support Vector Machines. <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, 1491-4	0.9	5
85	Study of Heart Rate Variability in Bipolar Disorder: Linear and Non-Linear Parameters during Sleep. <i>Frontiers in Neuroengineering</i> , <b>2011</b> , 4, 22		20
84	Long-term correlations and complexity analysis of the heart rate variability signal during sleep. Comparing normal and pathologic subjects. <i>Methods of Information in Medicine</i> , <b>2010</b> , 49, 479-83	1.5	14
83	A methodological study for the multifactorial assessment of motor adaptation: Integration of kinematic and neural factors. <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, 4910-3	0.9	0
82	Measures of connectivity among the different brain areas during an attention task. <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, 1710-3	0.9	
81	EEG complexity during sleep: on the effect of micro and macro sleep structure. <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, 5959-62	0.9	4
80	Automatic detection of sleep macrostructure based on a sensorized T-shirt. <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, 3606-9	0.9	3
79	Evaluation of the sleep quality based on bed sensor signals: Time-variant 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>2010</b> , 2010, 3994-7	0.9	8
78	Moving dipoles method detects displacement in N2 and P3 generation in diffuse axonal injury 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>2010</b> , 2010, 3265-8	0.9	
77	Automatic sleep staging based on ballistocardiographic signals recorded through bed sensors. <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, 3273-6	0.9	24
76	Automatic screening of obstructive sleep apnea from the ECG based on empirical mode decomposition and wavelet analysis. <i>Physiological Measurement</i> , <b>2010</b> , 31, 273-89	2.9	75
75	Automatic detection of a phases of the cyclic alternating pattern during sleep. <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, 5085-8	0.9	9
74	Sleep staging from Heart Rate Variability: time-varying spectral features and Hidden Markov Models. <i>International Journal of Biomedical Engineering and Technology</i> , <b>2010</b> , 3, 246	1.3	68
73	Sleep staging based on signals acquired through bed sensor. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 776-85		134
72	Processing of signals recorded through smart devices: sleep-quality assessment. <i>IEEE Transactions on Information Technology in Biomedicine</i> , <b>2010</b> , 14, 741-7		39
71	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
70	Sleep apnea screening by autoregressive models from a single ECG lead. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 2838-50	5	97

69	Removal of the ballistocardiographic artifact from EEG-fMRI data: a canonical correlation approach. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 1673-89	3.8	10
68	Model comparison for automatic characterization and classification of average ERPs using visual oddball paradigm. <i>Clinical Neurophysiology</i> , <b>2009</b> , 120, 264-74	4.3	9
67	Automated identification of ERP peaks through Dynamic Time Warping: an application to developmental dyslexia. <i>Clinical Neurophysiology</i> , <b>2009</b> , 120, 1819-27	4.3	5
66	Sleep staging classification based on HRV: time-variant 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>2009</b> , 2009, 9-12	0.9	9
65	Cross-bispectral analysis of local field potentials: An application to essential tremor <b>2009</b> ,		1
64	Automatic detection of sleep macrostructure based on bed sensors. <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, 5555-8	0.9	11
63	Effect of prolonged stimulation on cerebral hemodynamic: a time-resolved fNIRS study. <i>Medical Physics</i> , <b>2009</b> , 36, 4103-14	4.4	18
62	Exploring interregional brain interactivity in temporal lobe epilepsy using partial correlation analysis of fMRI 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>2008</b> , 2008, 1024-7	0.9	3
61	Activation of the prefrontal cortex during a visual n-back working memory task with varying memory load: a near infrared spectroscopy 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> , <b>2008</b> , 2008, 1024-7	0.9	12
60	Automatic screening of Obstructive Sleep Apnea from the ECG based on Empirical Mode Decomposition and wavelet 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>2008</b> , 2008, 3608-11	0.9	8
59	On arousal from sleep: time-frequency analysis. <i>Medical and Biological Engineering and Computing</i> , <b>2008</b> , 46, 341-51	3.1	27
58	Combined behavioral and EEG power analysis in DAI improve accuracy in the assessment of sustained attention deficit. <i>Annals of Biomedical Engineering</i> , <b>2008</b> , 36, 1216-27	4.7	10
57	Single trial somatosensory evoked potential extraction with ARX filtering for a combined spinal cord intraoperative neuromonitoring technique. <i>BioMedical Engineering OnLine</i> , <b>2007</b> , 6, 2	4.1	19
56	Interaction between rhythms in the human basal ganglia: application of bispectral analysis to local field potentials. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , <b>2007</b> , 15, 483-92	4.8	34
55	Evaluation and application of a RBF neural network for online single-sweep extraction of SEPs during scoliosis surgery. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2007</b> , 54, 1300-8	5	8
54	Analysis of the dynamical behaviour of the EEG rhythms during a test of sustained attention. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 1298-301		14
53	Obstructive sleep apnea syndrome analysis in children by decreases in the amplitude fluctuations of pulse photoplethysmography: role of recording duration and heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 6090-3		3
52	Non-invasive neuroimaging: Generalized Linear Models for interpreting functional Near Infrared Spectroscopy signals <b>2007</b> ,		1



51	The haemodynamic response to the interictal epileptic spikes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 5223-6		1
50	Detection of sleep apnea from surface ECG based on features extracted by an autoregressive model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 6106-9		31
49	Gender-related differences in non-linear phase synchronizations between subthalamic rhythms in Parkinson's disease <b>2007</b> ,		1
48	Sleep monitoring through a textile recording system. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2007</b> , 2007, 2560-3		17
47	Basal ganglia local field potentials: applications in the development of new deep brain stimulation devices for movement disorders. <i>Expert Review of Medical Devices</i> , <b>2007</b> , 4, 605-14	3.5	53
46	Role of signal processing in wearable devices: application to sleep evaluation <b>2007</b> , 139-142		
45	Signal processing and feature extraction for sleep evaluation in wearable devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 3517-20		9
44	Multivariate and multiorgan analysis of cardiorespiratory variability signals: the CAP sleep case. <i>Biomedizinische Technik</i> , <b>2006</b> , 51, 167-73	1.3	8
43	Analysis of sleep and stress profiles from biomedical signal processing in wearable devices. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , Suppl, 6530-2		5
42	Combination of event-related potentials and functional magnetic resonance imaging during single-letter reading. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , 2006, 984-7		
41	Dopamine-dependent non-linear correlation between subthalamic rhythms in Parkinson's disease. <i>Journal of Physiology</i> , <b>2006</b> , 571, 579-91	3.9	117
40	Different effects of CPAP and APAP therapies on the autonomic nervous system in osa patients <b>2005</b> ,		5
39	Movement-related frequency modulation of beta oscillatory activity in the human subthalamic nucleus. <i>Journal of Physiology</i> , <b>2005</b> , 568, 699-711	3.9	134
38	Dynamic time warping in the analysis of event-related potentials. <i>IEEE Engineering in Medicine and Biology Magazine</i> , <b>2005</b> , 24, 68-77		10
37	Remote transmission and analysis of signals from wearable devices in sleep disorders evaluation <b>2005</b> ,		9
36	Adaptive autoregressive identification with spectral power decomposition for studying movement-related activity in scalp EEG signals and basal ganglia local field potentials. <i>Journal of Neural Engineering</i> , <b>2004</b> , 1, 165-73	5	20
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