

Anna M Bianchi

List of Publications by Year in descending order

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193
papers

4,652
citations

117453

34
h-index

128067

60
g-index

196
all docs

196
docs citations

196
times ranked

4667
citing authors

#	ARTICLE	IF	CITATIONS
1	Rhythm-specific pharmacological modulation of subthalamic activity in Parkinson's disease. <i>Experimental Neurology</i> , 2004, 189, 369-379.	2.0	450
2	Time-variant power spectrum analysis for the detection of transient episodes in HRV signal. <i>IEEE Transactions on Biomedical Engineering</i> , 1993, 40, 136-144.	2.5	198
3	Vegetative Background of SleepSpectral Analysis of the Heart Rate Variability. <i>Physiology and Behavior</i> , 1997, 62, 1037-1043.	1.0	192
4	Sleep Staging Based on Signals Acquired Through Bed Sensor. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 776-785.	3.6	166
5	Movement-related frequency modulation of beta oscillatory activity in the human subthalamic nucleus. <i>Journal of Physiology</i> , 2005, 568, 699-711.	1.3	163
6	Dopamine-dependent non-linear correlation between subthalamic rhythms in Parkinson's disease. <i>Journal of Physiology</i> , 2006, 571, 579-591.	1.3	145
7	Cardiac Autonomic Patterns Preceding Occasional Vasovagal Reactions in Healthy Humans. <i>Circulation</i> , 1998, 98, 1756-1761.	1.6	133
8	Sleep Apnea Screening by Autoregressive Models From a Single ECG Lead. <i>IEEE Transactions on Biomedical Engineering</i> , 2009, 56, 2838-2850.	2.5	132
9	Automatic screening of obstructive sleep apnea from the ECG based on empirical mode decomposition and wavelet analysis. <i>Physiological Measurement</i> , 2010, 31, 273-289.	1.2	101
10	Continuous monitoring of the sympatho-vagal balance through spectral analysis. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1997, 16, 64-73.	1.1	98
11	Spectral analysis of heart rate variability signal and respiration in diabetic subjects. <i>Medical and Biological Engineering and Computing</i> , 1990, 28, 205-211.	1.6	84
12	Autonomic Changes During Hypnosis: A Heart Rate Variability Power Spectrum Analysis as a Marker of Sympatho-Vagal Balance. <i>International Journal of Clinical and Experimental Hypnosis</i> , 1994, 42, 140-152.	1.1	83
13	Sleep staging from Heart Rate Variability: time-varying spectral features and Hidden Markov Models. <i>International Journal of Biomedical Engineering and Technology</i> , 2010, 3, 246.	0.2	83
14	Modulation of the Sympatho-Vagal Balance during Sleep: Frequency Domain Study of Heart Rate Variability and Respiration. <i>Frontiers in Physiology</i> , 2012, 3, 45.	1.3	81
15	The impact of cyclic alternating pattern on heart rate variability during sleep in healthy young adults. <i>Clinical Neurophysiology</i> , 2000, 111, 99-101.	0.7	70
16	Principal component analysis for reduction of ocular artefacts in event-related potentials of normal and dyslexic children. <i>Clinical Neurophysiology</i> , 2004, 115, 609-619.	0.7	70
17	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> , 2007, 4, 605-614.	1.4	68
18	Pole-tracking algorithms for the extraction of time-variant heart rate variability spectral parameters. <i>IEEE Transactions on Biomedical Engineering</i> , 1995, 42, 250-259.	2.5	66

#	ARTICLE	IF	CITATIONS
19	Discrimination of Sleep-Apnea-Related Decreases in the Amplitude Fluctuations of PPG Signal in Children by HRV Analysis. IEEE Transactions on Biomedical Engineering, 2009, 56, 1005-1014.	2.5	65
20	Model dependency of multivariate autoregressive spectral analysis. IEEE Engineering in Medicine and Biology Magazine, 1997, 16, 74-85.	1.1	59
21	Advanced spectral methods for detecting dynamic behaviour. Autonomic Neuroscience: Basic and Clinical, 2001, 90, 3-12.	1.4	57
22	Detection of Sleep Apnea from surface ECG based on features extracted by an Autoregressive Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6106-9.	0.5	53
23	Processing of Signals Recorded Through Smart Devices: Sleep-Quality Assessment. IEEE Transactions on Information Technology in Biomedicine, 2010, 14, 741-747.	3.6	49
24	Time-Frequency and Time-Varying Analysis for Assessing the Dynamic Responses of Cardiovascular Control. Critical Reviews in Biomedical Engineering, 2002, 30, 175-217.	0.5	43
25	Multivariate time-variant identification of cardiovascular variability signals: a beat-to-beat spectral parameter estimation in vasovagal syncope. IEEE Transactions on Biomedical Engineering, 1997, 44, 978-989.	2.5	42
26	Load-dependent brain activation assessed by time-domain functional near-infrared spectroscopy during a working memory task with graded levels of difficulty. Journal of Biomedical Optics, 2012, 17, 056005.	1.4	42
27	EEG-based index for engagement level monitoring during sustained attention. , 2015, 2015, 1512-5.		42
28	EEG Analysis During Active and Assisted Repetitive Movements: Evidence for Differences in Neural Engagement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 761-771.	2.7	42
29	Deep and surface hemodynamic signal from functional time resolved transcranial near infrared spectroscopy compared to skin flowmotion. Computers in Biology and Medicine, 2012, 42, 282-289.	3.9	41
30	Brain Circuitry Supporting Multi-Organ Autonomic Outflow in Response to Nausea. Cerebral Cortex, 2016, 26, bhu172.	1.6	40
31	Interaction Between Rhythms in the Human Basal Ganglia: Application of Bispectral Analysis to Local Field Potentials. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2007, 15, 483-492.	2.7	39
32	Efficient automatic classifiers for the detection of A phases of the cyclic alternating pattern in sleep. Medical and Biological Engineering and Computing, 2012, 50, 359-372.	1.6	39
33	Neuroimaging brainstem circuitry supporting cardiovagal response to pain: a combined heart rate variability/ultrahigh-field (7 T) functional magnetic resonance imaging study. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150189.	1.6	39
34	Autonomic function in narcolepsy: power spectrum analysis of heart rate variability. Journal of Neurology, 1997, 244, 252-255.	1.8	38
35	Investigation of negative BOLD responses in human brain through NIRS technique. A visual stimulation study. NeuroImage, 2015, 108, 410-422.	2.1	37
36	Automatic sleep staging based on ballistocardiographic signals recorded through bed sensors. , 2010, 2010, 3273-6.		35

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37	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> , 2014, 25, 164-168.	1.0	35
38	Evaluation of Pressure Bed Sensor for Automatic SAHS Screening. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1935-1943.	2.4	35
39	Assessment of the EEG complexity during activations from sleep. <i>Computer Methods and Programs in Biomedicine</i> , 2011, 104, e16-e28.	2.6	32
40	ICA-derived cortical responses indexing rapid multi-feature auditory processing in six-month-old infants. <i>NeuroImage</i> , 2016, 133, 75-87.	2.1	32
41	On arousal from sleep: time-frequency analysis. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 341-351.	1.6	31
42	Characterization of A phases during the Cyclic Alternating Pattern of sleep. <i>Clinical Neurophysiology</i> , 2011, 122, 2016-2024.	0.7	30
43	EEG segmentation for improving automatic CAP detection. <i>Clinical Neurophysiology</i> , 2013, 124, 1815-1823.	0.7	30
44	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> , 2015, 28, 915-925.	0.8	30
45	Continuous Quantification of Baroreflex and Respiratory Control of Heart Rate by Use of Bivariate Autoregressive Techniques. <i>Annals of Noninvasive Electrocardiology</i> , 1996, 1, 264-277.	0.5	29
46	Monitoring the autonomic nervous system in the ICU through cardiovascular variability signals. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 1997, 16, 64-75.	1.1	28
47	Cyclic Alternating Patterns in Normal Sleep and Insomnia: Structure and Content Differences. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 642-652.	2.7	28
48	The addition of entropy-based regularity parameters improves sleep stage classification based on heart rate variability. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 415-425.	1.6	28
49	Assessment of Heart Rate Variability Changes During Dipyridamole Infusion and Dipyridamole-Induced Myocardial Ischemia: A Time Variant Spectral Approach This report was partially supported by a grant from the Italian Ministry of University (MURST 40% "Special Project on Cardiovascular System"). <i>Journal of the American College of Cardiology</i> , 1996, 28, 924-934.	1.2	27
50	The subthalamic nucleus in Parkinson's disease: power spectral density analysis of neural intraoperative signals. <i>Neurological Sciences</i> , 2004, 24, 367-374.	0.9	27
51	Study of Heart Rate Variability in bipolar disorder: linear and nonlinear parameters during sleep. <i>Frontiers in Neuroengineering</i> , 2011, 4, 22.	4.8	27
52	Sleep Monitoring Through a Textile Recording System. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 2560-3.	0.5	23
53	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> , 2004, 1, 165-173.	1.8	22
54	Movement analysis and EEG recordings in children with hemiplegic cerebral palsy. <i>Experimental Brain Research</i> , 2012, 223, 517-524.	0.7	22

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55	An Automated Function for Identifying EEG Independent Components Representing Bilateral Source Activity. IFMBE Proceedings, 2016, , 105-109.	0.2	22
56	Single trial somatosensory evoked potential extraction with ARX filtering for a combined spinal cord intraoperative neuromonitoring technique. BioMedical Engineering OnLine, 2007, 6, 2.	1.3	21
57	EEG-informed fMRI analysis during a hand grip task: estimating the relationship between EEG rhythms and the BOLD signal. Frontiers in Human Neuroscience, 2014, 8, 186.	1.0	21
58	Heart rate variability and cardiorespiratory coupling in obstructive sleep apnea: elderly compared with young. Sleep Medicine, 2014, 15, 1324-1331.	0.8	21
59	Compressed spectral arrays for the analysis of 24-hr heart rate variability signal: Enhancement of parameters and data reduction. Journal of Biomedical Informatics, 1989, 22, 424-441.	0.7	20
60	Analysis of the dynamical behaviour of the EEG rhythms during a test of sustained attention. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1298-301.	0.5	20
61	Effect of prolonged stimulation on cerebral hemodynamic: A time-resolved fNIRS study. Medical Physics, 2009, 36, 4103-4114.	1.6	20
62	Analysis of A-phase transitions during the cyclic alternating pattern under normal sleep. Medical and Biological Engineering and Computing, 2016, 54, 133-148.	1.6	20
63	Consumers Emotional Responses to Functional and Hedonic Products: A Neuroscience Research. Frontiers in Psychology, 2020, 11, 559779.	1.1	20
64	Heart rate variability analysis for the identification of the preictal interval in patients with drug-resistant epilepsy. Scientific Reports, 2021, 11, 5987.	1.6	20
65	GMAC: A Matlab toolbox for spectral Granger causality analysis of fMRI data. Computers in Biology and Medicine, 2012, 42, 943-956.	3.9	19
66	Time-frequency analysis of biomedical signals. Transactions of the Institute of Measurement and Control, 2000, 22, 215-230.	1.1	18
67	EEG indices correlate with sustained attention performance in patients affected by diffuse axonal injury. Medical and Biological Engineering and Computing, 2018, 56, 991-1001.	1.6	18
68	Single sweep analysis of event related auditory potentials for the monitoring of sedation in cardiac surgery patients. Computer Methods and Programs in Biomedicine, 2000, 63, 219-227.	2.6	17
69	Long-term Correlations and Complexity Analysis of the Heart Rate Variability Signal during Sleep. Methods of Information in Medicine, 2010, 49, 479-483.	0.7	17
70	Automatic detection of A phases of the Cyclic Alternating Pattern during sleep. , 2010, 2010, 5085-8.		17
71	Towards a Biomarker of Motor Adaptation: Integration of Kinematic and Neural Factors. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 258-267.	2.7	16
72	Frequency-based approach to the study of semantic brain networks connectivity. Journal of Neuroscience Methods, 2013, 212, 181-189.	1.3	16

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73	Investigation of the electrophysiological correlates of negative BOLD response during intermittent photic stimulation: An EEG-fMRI study. <i>Human Brain Mapping</i> , 2016, 37, 2247-2262.	1.9	16
74	Sleep-wake detection based on respiratory signal acquired through a Pressure Bed Sensor. , 2012, 2012, 3452-5.		15
75	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> , 2014, 9, e112147.	1.1	15
76	Monitoring Nocturnal Heart Rate with Bed Sensor. <i>Methods of Information in Medicine</i> , 2014, 53, 308-313.	0.7	15
77	Linear multivariate models for physiological signal analysis: theory. <i>Computer Methods and Programs in Biomedicine</i> , 1996, 51, 85-94.	2.6	14
78	Analysis of sleep and stress profiles from biomedical signal processing in wearable devices. , 2006, Suppl, 6530-2.		14
79	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> , 2007, 54, 1300-1308.	2.5	14
80	Activation of the prefrontal cortex during a visual <i>n</i> -back working memory task with varying memory load: A Near Infrared Spectroscopy Study. , 2008, 2008, 4024-7.		14
81	Automatic detection of sleep macrostructure based on bed sensors. , 2009, 2009, 5555-8.		14
82	Constructing fMRI connectivity networks: A whole brain functional parcellation method for node definition. <i>Journal of Neuroscience Methods</i> , 2014, 228, 86-99.	1.3	14
83	Effects of Reboxetine on Sleep and Nocturnal Cardiac Autonomic Activity in Patients with Dysthymia. <i>Journal of Psychopharmacology</i> , 2004, 18, 417-422.	2.0	13
84	Linear multivariate models for physiological signal analysis: applications. <i>Computer Methods and Programs in Biomedicine</i> , 1996, 51, 121-130.	2.6	12
85	Combined Behavioral and EEG Power Analysis in DAI Improve Accuracy in the Assessment of Sustained Attention Deficit. <i>Annals of Biomedical Engineering</i> , 2008, 36, 1216-1227.	1.3	12
86	Automatic screening of Obstructive Sleep Apnea from the ECG based on Empirical Mode Decomposition and wavelet analysis. , 2008, 2008, 3608-11.		12
87	Removal of the ballistocardiographic artifact from EEG-fMRI data: a canonical correlation approach. <i>Physics in Medicine and Biology</i> , 2009, 54, 1673-1689.	1.6	12
88	Parcel-Based Connectivity Analysis of fMRI Data for the Study of Epileptic Seizure Propagation. <i>Brain Topography</i> , 2012, 25, 345-361.	0.8	12
89	Dynamic time warping in the analysis of event-related potentials. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2005, 24, 68-77.	1.1	11
90	Model comparison for automatic characterization and classification of average ERPs using visual oddball paradigm. <i>Clinical Neurophysiology</i> , 2009, 120, 264-274.	0.7	11

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91	Automatic detection of CAP on central and fronto-central EEG leads via support vector machines. , 2011, 2011, 1491-4.		11
92	The putative role of neuronal network synchronization as a potential biomarker for bipolar disorder: A review of EEG studies. Journal of Affective Disorders, 2017, 212, 167-170.	2.0	11
93	Remote transmission and analysis of signals from wearable devices in sleep disorders evaluation. , 2005, , .		10
94	Sleep staging classification based on HRV: Time-variant analysis. , 2009, 2009, 9-12.		10
95	Evaluation of the sleep quality based on bed sensor signals: Time-variant analysis. , 2010, 2010, 3994-7.		10
96	From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. Physiological Measurement, 2012, 33, 1379-1397.	1.2	10
97	Bicoherence Interpretation in EEG Requires Signal to Noise Ratio Quantification: An Application to Sensorimotor Rhythms. IEEE Transactions on Biomedical Engineering, 2020, 67, 2696-2704.	2.5	10
98	Kinematic evaluation and reliability assessment of the Nine Hole Peg Test for manual dexterity. Journal of Hand Therapy, 2023, 36, 560-567.	0.7	10
99	Automatic Identification of Failure in Hip Replacement: An Artificial Intelligence Approach. Bioengineering, 2022, 9, 288.	1.6	10
100	Signal Processing and Feature Extraction for Sleep Evaluation in Wearable Devices. , 2006, 2006, 3517-20.		9
101	Clinical state assessment in bipolar patients by means of HRV features obtained with a sensorized T-shirt. , 2012, 2012, 2240-3.		9
102	Cardiac autonomic regulation during sleep in panic disorder.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 61, 421-422.	0.9	8
103	Multivariate and multiorgan analysis of cardiorespiratory variability signals: the CAP sleep case. Biomedizinische Technik, 2006, 51, 167-173.	0.9	8
104	Biomedical Signal and Image Processing. IEEE Pulse, 2011, 2, 41-54.	0.1	8
105	Automated identification of ERP peaks through Dynamic Time Warping: An application to developmental dyslexia. Clinical Neurophysiology, 2009, 120, 1819-1827.	0.7	7
106	Are Complexity Metrics Reliable in Assessing HRV Control in Obese Patients During Sleep?. PLoS ONE, 2015, 10, e0124458.	1.1	7
107	The CardioRisk project: Improvement of cardiovascular risk assessment. Journal of Computational Science, 2015, 9, 39-44.	1.5	7
108	Healthy and tumoral tissue resistivity in wild-type and sparcâ€™/â€™ animal models. Medical and Biological Engineering and Computing, 2016, 54, 1949-1957.	1.6	7

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109	Higher order spectral analysis of scalp EEG activity reveals non-linear behavior during rhythmic visual stimulation. <i>Journal of Neural Engineering</i> , 2019, 16, 056028.	1.8	7
110	Single-sweep analysis using an autoregressive with exogenous input (ARX) model. <i>Documenta Ophthalmologica</i> , 1994, 86, 95-104.	1.0	6
111	Spectral and bispectral analysis of the EEG rhythms in basal conditions and during photic stimulation. , 2004, 2006, 574-7.		6
112	The Haemodynamic Response to the Interictal Epileptic Spikes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5223-6.	0.5	6
113	Predicting EEG complexity from sleep macro and microstructure. <i>Physiological Measurement</i> , 2011, 32, 1083-1101.	1.2	6
114	Detection of sleep-disordered breathing with Pressure Bed Sensor. , 2013, 2013, 1342-5.		6
115	Insomnia types and sleep microstructure dynamics. , 2013, 2013, 6167-70.		6
116	Multimodal non-rigid registration methods based on local variability measures in computed tomography and magnetic resonance brain images. <i>IET Image Processing</i> , 2014, 8, 699-707.	1.4	6
117	Effects of the series length on Lempel-Ziv Complexity during sleep. , 2014, 2014, 693-6.		6
118	Assessment of the usability of a computerized Stroop Test for clinical application. , 2016, , .		6
119	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> , 2019, 66, 2831-2839.	2.5	6
120	Effective Connectivity During Rest and Music Listening: An EEG Study on Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 657221.	1.7	6
121	Different effects of CPAP and APAP therapies on the autonomic nervous system in osa patients. , 2005, , .		5
122	EEG Complexity during Sleep: on the effect of micro and macro sleep structure. , 2010, 2010, 5959-62.		5
123	Automatic detection of sleep macrostructure based on a sensorized T-shirt. , 2010, 2010, 3606-9.		5
124	EEG monitoring during software development. , 2020, , .		5
125	Heart Rate Variability from Wearables: A Comparative Analysis Among Standard ECG, a Smart Shirt and a Wristband. <i>Studies in Health Technology and Informatics</i> , 2019, 261, 128-133.	0.2	5
126	Information Retrieval from Photoplethysmographic Sensors: A Comprehensive Comparison of Practical Interpolation and Breath-Extraction Techniques at Different Sampling Rates. <i>Sensors</i> , 2022, 22, 1428.	2.1	5

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127	Non stationary analysis of heart rate variability during the obstructive sleep apnea. , 2004, 2006, 286-9.		4
128	Exploring interregional brain interactivity in temporal lobe epilepsy using partial correlation analysis of fMRI data. , 2008, 2008, 4423-6.		4
129	Methods for heart rate variability analysis during sleep. , 2013, 2013, 6579-82.		4
130	Heart Rate Variability and Cardio-respiratory Coupling During Sleep in Patients Prior to Bariatric Surgery. Obesity Surgery, 2014, 24, 471-477.	1.1	4
131	Combining sudomotor nerve impulse estimation with fMRI to investigate the central sympathetic response to nausea. , 2015, 2015, 4683-6.		4
132	Challenges in personalized systems for Personal Health Care. , 2016, , .		4
133	Discharge patterns in the subthalamic nucleus and substantia nigra during deep brain stimulator implants. , 0, , .		3
134	Adaptive autoregressive identification with "whale" forgetting function for event related desynchronization/synchronization analysis. , 0, , .		3
135	Obstructive Sleep Apnea Syndrome analysis in children by Decreases in the Amplitude Fluctuations of Pulse Photoplethysmography: role of recording duration and Heart Rate Variability. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6090-3.	0.5	3
136	Non-invasive neuroimaging: Generalized Linear Models for interpreting functional Near Infrared Spectroscopy signals. , 2007, , .		3
137	Correlation between autonomous function and left ventricular performance after acute myocardial infarction. , 2015, 2015, 3343-6.		3
138	Monosynaptic Reflexes and Preprogrammed Reactions in Down Syndrome: A Surface Electromyographic Study. Journal of Policy and Practice in Intellectual Disabilities, 2016, 13, 157-164.	1.7	3
139	Integrated data analysis for the quantification of emotional responses during video observation. , 2017, , .		3
140	Physiological responses related to pleasant and unpleasant sounds. , 2020, , .		3
141	An intra-operative feature-based classification of microelectrode recordings to support the subthalamic nucleus functional identification during deep brain stimulation surgery. Journal of Neural Engineering, 2021, 18, 016003.	1.8	3
142	Analysis of multichannel EEG synchronization before and during generalized epileptic seizures. , 0, , .		2
143	Cross-bispectral analysis of local field potentials: An application to essential tremor. , 2009, , .		2
144	A methodological study for the multifactorial assessment of motor adaptation: Integration of kinematic and neural factors. , 2010, 2010, 4910-3.		2

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145	Assessment of cortical response during motor task in adults by a multimodality approach based on fNIRS-EEG, fMRI-EEG, and TMS. , 2011, , .		2
146	Cardiorespiratory coupling during sleep in difficult-to-control asthmatic patients. , 2012, 2012, 3652-5.		2
147	A novel method to assist the detection of the Cyclic Alternating Pattern (CAP). , 2012, 2012, 3656-9.		2
148	Optimization of Time-Variant Autoregressive Models for tracking REM - non REM transitions during sleep. , 2012, 2012, 2236-9.		2
149	Independent Component Analysis of EEG-fMRI data for studying epilepsy and epileptic seizures. , 2013, 2013, 6011-4.		2
150	Decision tree for smart feature extraction from sleep HR in bipolar patients. , 2013, 2013, 5033-6.		2
151	Detection of the Sleep Stages Throughout Non-Obtrusive Measures of Inter-Beat Fluctuations and Motion: Night and Day Sleep of Female Shift Workers. Fluctuation and Noise Letters, 2017, 16, 1750033.	1.0	2
152	Exploration of the physiological response to an online gambling task by frequency domain analysis of the electrodermal activity. , 2020, 2020, 91-94.		2
153	Assessing stress variations in children during the strange situation procedure: comparison of three widely used respiratory sinus arrhythmia estimation methods. Physiological Measurement, 2021, 42, 085007.	1.2	2
154	Central Alpha Bicoherence Is Reduced in Photosensitive Subjects. IFMBE Proceedings, 2020, , 1123-1128.	0.2	2
155	Association of Superficial White Matter Alterations with Cerebrospinal Fluid Biomarkers and Cognitive Decline in Neurodegenerative Dementia. Journal of Alzheimer's Disease, 2022, 85, 431-442.	1.2	2
156	A PC-based system for H-reflex and single sweep SEP coupled monitoring of spinal cord function in vertebral column surgery. , 0, , .		1
157	Time-variant spectral analysis for the studying of transient ischemia during dipyridamole stress test. , 0, , .		1
158	A radial basis function neural network for single sweep detection of somatosensory evoked potentials. , 2004, 2006, 427-30.		1
159	Gender-related differences in non-linear phase synchronizations between subthalamic rhythms in Parkinson's disease. , 2007, , .		1
160	Event related synchronization and Hilbert Huang transform in the study of motor adaptation: A comparison of methods. , 2011, , .		1
161	EEG-informed fMRI analysis during a hand grip task. , 2012, 2012, 4712-5.		1
162	GLM analysis of time resolved NIRS data of motor activation during different motor tasks. , 2013, 2013, 1787-90.		1

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163	Application of higher-order spectral analysis to local field potentials recorded in patients treated with deep brain stimulation. , 2015, 2015, 5549-52.		1
164	Quantification of long-term effects of botulinum injection in a case of cerebral palsy affecting the upper limb movement. Developmental Neurorehabilitation, 2015, 18, 145-148.	0.5	1
165	Multidimensional Processes: In Italy, biomedical signal and image processing embraces a multiparametric, multimodal, multiscale paradigm.. IEEE Pulse, 2015, 6, 44-49.	0.1	1
166	Functional Clustering approach for the analysis of Stereo-EEG activity patterns in correspondence of epileptic seizures. , 2017, 2017, 2806-2809.		1
167	Measuring autonomic involvement related to seizure onset in Focal Cortical Dysplasia type II. , 2017, , .		1
168	Investigating the Optimal Baseline Positioning to Maximize Cognitive Experimental Outcome. , 2019, 2019, 4529-4532.		1
169	Optimization of the Cortical Traveling Wave Analysis framework for feasibility in Stereo-Electroencephalography. , 2019, 2019, 3854-3857.		1
170	A novel spatiotemporal tool for the automatic classification of fMRI noise based on Independent Component Analysis. , 2020, 2020, 1718-1721.		1
171	Characterization of Microelectrode Recordings for the Subthalamic Nucleus identification in Parkinson's disease. , 2020, 2020, 3485-3488.		1
172	Respiratory Sinus Arrhythmia (RSA) stress response in preschool age varies by serotonin transporter polymorphism (5-HTTLPR): A preliminary report. Journal of Experimental Child Psychology, 2022, 219, 105413.	0.7	1
173	Automatic detection of A-phase onsets based on convolutional neural networks. Biomedical Signal Processing and Control, 2022, 77, 103800.	3.5	1
174	Time-variant parametric model for the 24-H evaluation of the closed-loop $\hat{\pm}$ -baroreceptive gain. , 0, , .		0
175	Multichannel time-variant spectral and cross-spectral parameters for the evaluation of cardiovascular variability signals before syncope. , 0, , .		0
176	Time-variant heart-rate variability spectral parameters during dobutamine test. , 0, , .		0
177	Time-frequency analysis of event-related brain potentials. , 0, , .		0
178	Processing of neural activity in the human subthalamus in Parkinson's disease: movement-related and pharmacological modulation. , 0, , .		0
179	A pilot study of the reading processes combining reading-related potentials (RRPs) and fMRI. , 2004, 2004, 1892-5.		0
180	Combination of event-related potentials and functional magnetic resonance imaging during single-letter reading. , 2006, 2006, 984-7.		0

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181	Exploring brain networks in temporal lobe epilepsy by using dDTF analysis of fMRI data. , 2009, , .		0
182	Intra- and extra-cortical activation during a working memory task assessed by time-resolved near-infrared spectroscopy (fNIRS). Proceedings of SPIE, 2009, , .	0.8	0
183	Measures of connectivity among the different brain areas during an attention task. , 2010, 2010, 1710-3.		0
184	Proposal of a combined optoelectronic and electroencephalographic method for the study of kinematic and neural correlates of Motor Adaptation. , 2010, , .		0
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