Jesus Poza

List of Publications by Year
in descending order

115 papers	2,474 citations	218592 26 h-index	233338 45 g-index
119 all docs	119 docs citations	119 times ranked	2275 citing authors

#	Article	IF	Citations
1	Entropy analysis of the EEG background activity in Alzheimer's disease patients. Physiological Measurement, 2006, 27, 241-253.	1.2	271
2	Analysis of regularity in the EEG background activity of Alzheimer's disease patients with Approximate Entropy. Clinical Neurophysiology, 2005, 116, 1826-1834.	0.7	215
3	A novel automatic image processing algorithm for detection of hard exudates based on retinal image analysis. Medical Engineering and Physics, 2008, 30, 350-357.	0.8	133
4	MEG spectral profile in Alzheimer's disease and mild cognitive impairment. Clinical Neurophysiology, 2006, 117, 306-314.	0.7	104
5	Extraction of spectral based measures from MEG background oscillations in Alzheimer's disease. Medical Engineering and Physics, 2007, 29, 1073-1083.	0.8	97
6	Automated Multiclass Classification of Spontaneous EEG Activity in Alzheimer's Disease and Mild Cognitive Impairment. Entropy, 2018, 20, 35.	1.1	75
7	Spectral and Nonlinear Analyses of MEG Background Activity in Patients With Alzheimer's Disease. IEEE Transactions on Biomedical Engineering, 2008, 55, 1658-1665.	2.5	69
8	Variability, Regularity, and Complexity of Time Series Generated by Schizophrenic Patients and Control Subjects. IEEE Transactions on Biomedical Engineering, 2006, 53, 210-218.	2.5	65
9	Spectral changes in spontaneous MEG activity across the lifespan. Journal of Neural Engineering, 2013, 10, 066006.	1.8	58
10	Retinal image analysis to detect and quantify lesions associated with diabetic retinopathy. , 2004, 2004, 1624-7.		53
11	A comparative study of event-related coupling patterns during an auditory oddball task in schizophrenia. Journal of Neural Engineering, 2015, 12, 016007.	1.8	49
12	Detection of Hard Exudates in Retinal Images Using a Radial Basis Function Classifier. Annals of Biomedical Engineering, 2009, 37, 1448-1463.	1.3	48
13	Analysis of spontaneous MEG activity in mild cognitive impairment and Alzheimer's disease using spectral entropies and statistical complexity measures. Journal of Neural Engineering, 2012, 9, 036007.	1.8	48
14	Regional Analysis of Spontaneous MEG Rhythms in Patients with Alzheimer's Disease Using Spectral Entropies. Annals of Biomedical Engineering, 2008, 36, 141-152.	1.3	45
15	Decreased spectral entropy modulation in patients with schizophrenia during a P300 task. European Archives of Psychiatry and Clinical Neuroscience, 2014, 264, 533-543.	1.8	41
16	MEG Connectivity Analysis in Patients with Alzheimer's Disease Using Cross Mutual Information and Spectral Coherence. Annals of Biomedical Engineering, 2011, 39, 524-536.	1.3	40
17	EEG Characterization of the Alzheimer's Disease Continuum by Means of Multiscale Entropies. Entropy, 2019, 21, 544.	1.1	40
18	Characterizing the fluctuations of dynamic resting-state electrophysiological functional connectivity: reduced neuronal coupling variability in mild cognitive impairment and dementia due to Alzheimer's disease. Journal of Neural Engineering, 2019, 16, 056030.	1.8	39

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19	Quantitative Magnetoencephalography of Spontaneous Brain Activity in Alzheimer Disease. Alzheimer Disease and Associated Disorders, 2006, 20, 153-159.	0.6	37
20	Auditory P3a and P3b neural generators in schizophrenia: An adaptive sLORETA P300 localization approach. Schizophrenia Research, 2015, 169, 318-325.	1.1	37
21	Functional EEG network analysis in schizophrenia: Evidence of larger segregation and deficit of modulation. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 76, 116-123.	2.5	36
22	Computational modeling of the effects of EEG volume conduction on functional connectivity metrics. Application to Alzheimer's disease continuum. Journal of Neural Engineering, 2019, 16, 066019.	1.8	36
23	Evaluation of spectral ratio measures from spontaneous MEG recordings in patients with Alzheimer's disease. Computer Methods and Programs in Biomedicine, 2008, 90, 137-147.	2.6	35
24	Neural Network Reorganization Analysis During an Auditory Oddball Task in Schizophrenia Using Wavelet Entropy. Entropy, 2015, 17, 5241-5256.	1.1	34
25	Quantification of Graph Complexity Based on the Edge Weight Distribution Balance: Application to Brain Networks. International Journal of Neural Systems, 2018, 28, 1750032.	3.2	34
26	Decreased entropy modulation of EEG response to novelty and relevance in schizophrenia during a P300 task. European Archives of Psychiatry and Clinical Neuroscience, 2015, 265, 525-535.	1.8	31
27	Exploring non-stationarity patterns in schizophrenia: neural reorganization abnormalities in the alpha band. Journal of Neural Engineering, 2017, 14, 046001.	1.8	29
28	Relations between structural and EEG-based graph metrics in healthy controls and schizophrenia patients. Human Brain Mapping, 2018, 39, 3152-3165.	1.9	28
29	Absolute Power Spectral Density Changes in the Magnetoencephalographic Activity During the Transition from Childhood to Adulthood. Brain Topography, 2017, 30, 87-97.	0.8	26
30	Deficits of entropy modulation in schizophrenia are predicted by functional connectivity strength in the theta band and structural clustering. NeuroImage: Clinical, 2018, 18, 382-389.	1.4	26
31	Comparison of logistic regression and neural network classifiers in the detection of hard exudates in retinal images. , 2013, 2013, 5891-4.		25
32	Analysis of neural dynamics in mild cognitive impairment and Alzheimer's disease using wavelet turbulence. Journal of Neural Engineering, 2014, 11, 026010.	1.8	25
33	Spatio-Temporal Fluctuations of Neural Dynamics in Mild Cognitive Impairment and Alzheimer's Disease. Current Alzheimer Research, 2017, 14, 924-936.	0.7	25
34	Altered predictive capability of the brain network EEG model in schizophrenia during cognition. Schizophrenia Research, 2018, 201, 120-129.	1.1	24
35	MEG analysis of neural dynamics in attention-deficit/hyperactivity disorder with fuzzy entropy. Medical Engineering and Physics, 2015, 37, 416-423.	0.8	21
36	Assessment of classification improvement in patients with Alzheimer's disease based on magnetoencephalogram blind source separation. Artificial Intelligence in Medicine, 2008, 43, 75-85.	3.8	20

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37	Deficit of entropy modulation of the EEG in schizophrenia associated to cognitive performance and symptoms. A replication study. Schizophrenia Research, 2018, 195, 334-342.	1.1	20
38	Effects of a multi-sensory environment on brain-injured patients: Assessment of spectral patterns. Medical Engineering and Physics, 2013, 35, 365-375.	0.8	19
39	Main Symptomatic Treatment Targets in Suspected and Early Psychosis: New Insights From Network Analysis. Schizophrenia Bulletin, 2020, 46, 884-895.	2.3	19
40	Abnormal meta-state activation of dynamic brain networks across the Alzheimer spectrum. NeuroImage, 2021, 232, 117898.	2.1	19
41	Phase-amplitude coupling analysis of spontaneous EEG activity in Alzheimer's disease. , 2017, 2017, 2259-2262.		16
42	Analysis of Spontaneous MEG Activity in Patients with Alzheimer's Disease using Spectral Entropies. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6180-3.	0.5	15
43	Noise power associated with decreased task-induced variability of brain electrical activity in schizophrenia. European Archives of Psychiatry and Clinical Neuroscience, 2016, 266, 55-61.	1.8	15
44	Measuring Alterations of Spontaneous EEG Neural Coupling in Alzheimer's Disease and Mild Cognitive Impairment by Means of Cross-Entropy Metrics. Frontiers in Neuroinformatics, 2018, 12, 76.	1.3	15
45	The Menstrual Cycle Alters Resting-State Cortical Activity: A Magnetoencephalography Study. Frontiers in Human Neuroscience, 2021, 15, 652789.	1.0	14
46	Consistency of local activation parameters at sensor- and source-level in neural signals. Journal of Neural Engineering, 2020, 17, 056020.	1.8	14
47	Characterization of EEG patterns in brain-injured subjects and controls after a Snoezelen® intervention. Computer Methods and Programs in Biomedicine, 2016, 136, 1-9.	2.6	13
48	Spectral and Non-Linear Analyses of Spontaneous Magnetoencephalographic Activity in Alzheimer's Disease. Journal of Healthcare Engineering, 2012, 3, 299-322.	1.1	12
49	Alterations of Effective Connectivity Patterns in Mild Cognitive Impairment: An MEG Study. Journal of Alzheimer's Disease, 2018, 65, 843-854.	1.2	12
50	Regularity analysis of spontaneous MEG activity in Attention-Deficit/Hyperactivity Disorder. , 2011, 2011, 1765-8.		11
51	Spectral analysis of intracranial pressure signals recorded during infusion studies in patients with hydrocephalus. Medical Engineering and Physics, 2013, 35, 1490-1498.	0.8	11
52	Relationship between the Presence of the ApoE ε4 Allele and EEG Complexity along the Alzheimer's Disease Continuum. Sensors, 2020, 20, 3849.	2.1	11
53	Distinctive effects of executive dysfunction and loss of learning/memory abilities on resting-state brain activity. Scientific Reports, 2022, 12, 3459.	1.6	11
54	MEG Analysis of Neural Interactions in Attention-Deficit/Hyperactivity Disorder. Computational Intelligence and Neuroscience, 2016, 2016, 1-10.	1.1	10

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55	Predicting the outcome of non-pharmacological treatment for patients with dementia-related mild cognitive impairment. Aging, 2020, 12, 24101-24116.	1.4	10
56	Association between electroencephalographic modulation, psychotic-like experiences and cognitive performance in the general population. Psychiatry and Clinical Neurosciences, 2016, 70, 286-294.	1.0	9
57	Characterization of the dynamic behavior of neural activity in Alzheimer's disease: exploring the non-stationarity and recurrence structure of EEG resting-state activity. Journal of Neural Engineering, 2020, 17, 016071.	1.8	9
58	Pediatric Sleep Apnea: The Overnight Electroencephalogram as a Phenotypic Biomarker. Frontiers in Neuroscience, 2021, 15, 644697.	1.4	9
59	Entropy analysis of MEG background activity in Attention-Deficit/Hyperactivity Disorder. , 2013, 2013, 5057-60.		8
60	Topography of activation deficits in schizophrenia during P300 task related to cognition and structural connectivity. European Archives of Psychiatry and Clinical Neuroscience, 2019, 269, 419-428.	1.8	8
61	MEG analysis in Alzheimer's disease computing approximate entropy for different frequency bands. , 2010, 2010, 2379-82.		7
62	Inter-band Bispectral Analysis of EEG Background Activity to Characterize Alzheimer's Disease Continuum. Frontiers in Computational Neuroscience, 2020, 14, 70.	1.2	7
63	Analysis of spontaneous MEG activity in Alzheimer's disease using time-frequency parameters. , 2008, 2008, 5712-5.		6
64	Characterization of the spontaneous electroencephalographic activity in Alzheimer's disease using disequilibria and graph theory. , 2013, 2013, 5990-3.		5
65	Analysis of spontaneous EEG activity in Alzheimer's disease using cross-sample entropy and graph theory. , 2016, 2016, 2830-2833.		5
66	Modulation of brain network parameters associated with subclinical psychotic symptoms. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2016, 66, 54-62.	2.5	5
67	Bispectral analysis of spontaneous EEG activity from patients with moderate dementia due to Alzheimer's disease. , 2017, 2017, 422-425.		5
68	Continuous wavelet transform in the study of the time-scale properties of intracranial pressure in hydrocephalus. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170251.	1.6	5
69	Analysis of KCNH2 and CACNA1C schizophrenia risk genes on EEG functional network modulation during an auditory odd-ball task. European Archives of Psychiatry and Clinical Neuroscience, 2020, 270, 433-442.	1.8	5
70	Exploring the Interactions Between Neurophysiology and Cognitive and Behavioral Changes Induced by a Non-pharmacological Treatment: A Network Approach. Frontiers in Aging Neuroscience, 2021, 13, 696174.	1.7	5
71	Assessment of Effective Connectivity in Alzheimer's Disease Using Granger Causality. Biosystems and Biorobotics, 2017, , 763-767.	0.2	5
72	(Attenuated) hallucinations join basic symptoms in a transdiagnostic network cluster analysis. Schizophrenia Research, 2022, 243, 43-54.	1.1	5

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73	Analysis of magnetoencephalography recordings from Alzheimer's disease patients using embedding entropies. , 2014, 2014, 702-5.		4
74	Analysis of spontaneous MEG activity in mild cognitive impairment and Alzheimer's disease using Jensen's divergence. , 2014, 2014, 1501-4.		4
75	Variation at NRG1 genotype related to modulation of small-world properties of the functional cortical network. European Archives of Psychiatry and Clinical Neuroscience, 2017, 267, 25-32.	1.8	4
76	A new method to build multiplex networks using canonical correlation analysis for the characterization of the Alzheimer's disease continuum. Journal of Neural Engineering, 2021, 18, 026002.	1.8	4
77	Risk Variants in Three Alzheimer's Disease Genes Show Association with EEG Endophenotypes. Journal of Alzheimer's Disease, 2021, 80, 209-223.	1.2	4
78	Spectral and temporal characterization of sleep spindles—methodological implications. Journal of Neural Engineering, 2021, 18, 036014.	1.8	4
79	The association between carotid blood flow and resting-state brain activity in patients with cerebrovascular diseases. Scientific Reports, 2021, 11, 15225.	1.6	4
80	Influence of PICALM and CLU risk variants on beta EEG activity in Alzheimer's disease patients. Scientific Reports, 2021, 11, 20465.	1.6	4
81	Study of the MEG background activity in Alzheimer's disease patients with scaling analysis methods. , 2009, 2009, 3485-8.		3
82	Synchrony analysis of spontaneous MEG activity in Alzheimer's disease patients. , 2012, 2012, 6188-91.		3
83	Analysis of intracranial pressure signals recorded during infusion studies using the spectral entropy. , 2013, 2013, 2543-6.		3
84	Novel measure of the weigh distribution balance on the brain network: Graph complexity applied to schizophrenia. , 2016, 2016, 700-703.		3
85	Towards Automatic Artifact Rejection in Resting-State MEG Recordings: Evaluating the Performance of the SOUND Algorithm. , 2019, 2019, 4807-4810.		3
86	Exploring the Alterations in the Distribution of Neural Network Weights in Dementia Due to Alzheimer's Disease. Entropy, 2021, 23, 500.	1.1	3
87	Schizophrenia induces abnormal frequency-dependent patterns of dynamic brain network reconfiguration during an auditory oddball task. Journal of Neural Engineering, 2022, 19, 016033.	1.8	3
88	Rejection of artifact sources in magnetoencephalogram background activity using independent component analysis. , 2006, 2006, 5282-5.		2
89	Study of the EEG Changes during the Combined Ingestion of Alcohol and H<inf>1</inf>-antihistamines by using the Wavelet Transform. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 23-6.	0.5	2
90	Effect of infusion tests on the dynamical properties of intracranial pressure in hydrocephalus. Computer Methods and Programs in Biomedicine, 2016, 134, 225-235.	2.6	2

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91	Assessment of EEG Connectivity Patterns in Mild Cognitive Impairment Using Phase Slope Index. , 2018, 2018, 263-266.		2
92	Characterizing Non-stationarity in Alzheimerâ€™s Disease and Mild Cognitive Impairment by Means of Kullback-Leibler Divergence. Biosystems and Biorobotics, 2019, , 574-578.	0.2	2
93	Magnetoencephalogram Blind Source Separation and Component Selection Procedure to Improve the Diagnosis of Alzheimer's Disease Patients. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5437-40.	0.5	1
94	Analysis of the non-stationarity of neural activity during an auditory oddball task in schizophrenia. , 2016, 2016, 3724-3727.		1
95	Analysis of Functional Connectivity During an Auditory Oddball Task in Schizophrenia. Biosystems and Biorobotics, 2017, , 751-755.	0.2	1
96	Event-Related Phase-Amplitude Coupling: A Comparative Study. Biosystems and Biorobotics, 2017, , 757-761.	0.2	1
97	Spectral EEG Differences in Children with Obstructive Sleep Apnea. , 2019, , .		1
98	Analysis of Volume Conduction Effects on Different Functional Connectivity Metrics: Application to Alzheimerâ€™s Disease EEG Signals. , 2019, 2019, 6434-6437.		1
99	Genome-Wide Scan for Five Brain Oscillatory Phenotypes Identifies a New QTL Associated with Theta EEG Band. Brain Sciences, 2020, 10, 870.	1.1	1
100	Intraindividual Characterization of the Sleep Spindle Variability in Healthy Subjects. , 2020, 2020, 3473-3476.		1
101	Analysis of MEG Activity across the Life Span Using Statistical Complexity. IFMBE Proceedings, 2014, , 583-586.	0.2	1
102	Graph-Theoretical Analysis in Schizophrenia Performing an Auditory Oddball Task. IFMBE Proceedings, 2014, , 799-802.	0.2	1
103	Utility of a Radial Basis Function Classifier in the Detection of Red Lesions in Retinal Images. IFMBE Proceedings, 2009, , 21-24.	0.2	1
104	Network Analysis on Overnight EEG Spectrum to Assess Relationships Between Paediatric Sleep Apnoea and Cognition. IFMBE Proceedings, 2020, , 1138-1146.	0.2	1
105	High Frequential Resolution Networks: Considerations on a New Functional Brain Connectivity Framework. , 2021, 2021, 722-725.		1
106	Analysis of spontaneous MEG activity in mild cognitive impairment using spectral entropies and disequilibrium measures. , 2010, 2010, 6296-9.		0
107	Poster #M179 REDUCED THETA BAND RESPONSE TO RELEVANCE IN SCHIZOPHRENIA. Schizophrenia Research, 2014, 153, S255-S256.	1.1	0
108	Analysis of magnetoencephalography signals from Alzheimer's disease patients using granger causality. , 2016, 2016, 724-727.		0

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109	Characterization of EEG Resting-state Activity in Alzheimer's Disease by Means of Recurrence Plot Analyses. , 2019, 2019, 5786-5789.		0
110	Volume Conduction Effects on Connectivity Metrics: Application of Network Parameters to Characterize Alzheimer's Disease Continuum. , 2020, 2020, 30-33.		0
111	Editorial: Complexity and Connectivity: Functional Signatures of Neurodegenerative Disorders. Frontiers in Neuroscience, 2020, 14, 916.	1.4	0
112	Entropy in Brain Networks. Entropy, 2021, 23, 1157.	1.1	0
113	Analysis of Intracranial Pressure Signals Using the Spectral Turbulence. IFMBE Proceedings, 2014, , 795-798.	0.2	0
114	Analysis of Information Flux in Alzheimer's Disease and Mild Cognitive Impairment by Means of Graph-Theory Parameters. Biosystems and Biorobotics, 2019, , 569-573.	0.2	0
115	Effect of segment length, sampling frequency, and imaging modality on the estimation of measures of brain meta-state activation: an MEG/EEG study. , 2021, 2021, 315-318.		0