

Ernesto Pereda

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

3,322
citations

236612

25
h-index

161609

54
g-index

88
all docs

88
docs citations

88
times ranked

4172
citing authors

#	ARTICLE	IF	CITATIONS
1	ASMR amplifies low frequency and reduces high frequency oscillations. <i>Cortex</i> , 2022, 149, 85-100.	1.1	6
2	Modifications in the Topological Structure of EEG Functional Connectivity Networks during Listening Tonal and Atonal Concert Music in Musicians and Non-Musicians. <i>Brain Sciences</i> , 2021, 11, 159.	1.1	3
3	nMNSD: A Spiking Neuron-Based Classifier That Combines Weight-Adjustment and Delay-Shift. <i>Frontiers in Neuroscience</i> , 2021, 15, 582608.	1.4	5
4	Functional connectivity of the hippocampus and its subfields in resting-state networks. <i>European Journal of Neuroscience</i> , 2021, 53, 3378-3393.	1.2	24
5	Hypersynchronized Magnetoencephalography Brain Networks in Patients with Mild Cognitive Impairment and Alzheimer's Disease in Down Syndrome. <i>Brain Connectivity</i> , 2021, 11, 725-733.	0.8	9
6	FNS allows efficient event-driven spiking neural network simulations based on a neuron model supporting spike latency. <i>Scientific Reports</i> , 2021, 11, 12160.	1.6	3
7	A Structural Connectivity Disruption One Decade before the Typical Age for Dementia: A Study in Healthy Subjects with Family History of Alzheimer's Disease. <i>Cerebral Cortex Communications</i> , 2021, 2, tgab051.	0.7	3
8	Multivariate extension of phase synchronization improves the estimation of region-to-region source space functional connectivity. <i>Brain Multiphysics</i> , 2021, 2, 100021.	0.8	6
9	Comparison of Photonic Reservoir Computing Systems for Fiber Transmission Equalization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	1.9	31
10	Resting-state connectivity and network parameter analysis in alcohol-dependent males. A simultaneous EEG-MEG study. <i>Journal of Neuroscience Research</i> , 2020, 98, 1857-1876.	1.3	13
11	Different theta frameworks coexist in the rat hippocampus and are coordinated during memory-guided and novelty tasks. <i>ELife</i> , 2020, 9, .	2.8	47
12	Biomagnetic biomarkers for dementia: A pilot multicentre study with a recommended methodological framework for magnetoencephalography. <i>Alzheimer's and Dementia: Diagnosis, Assessment and Disease Monitoring</i> , 2019, 11, 450-462.	1.2	24
13	Modeling the Switching Behavior of Functional Connectivity Microstates (FC _{1/4} states) as a Novel Biomarker for Mild Cognitive Impairment. <i>Frontiers in Neuroscience</i> , 2019, 13, 542.	1.4	7
14	Hypersynchronization in mild cognitive impairment: the "X" model. <i>Brain</i> , 2019, 142, 3936-3950.	3.7	68
15	Aberrant MEG multi-frequency phase temporal synchronization predicts conversion from mild cognitive impairment-to-Alzheimer's disease. <i>NeuroImage: Clinical</i> , 2019, 24, 101972.	1.4	25
16	Non-Linear Dynamical Analysis of Resting Tremor for Demand-Driven Deep Brain Stimulation. <i>Sensors</i> , 2019, 19, 2507.	2.1	11
17	Closed-loop deep brain stimulation based on a stream-clustering system. <i>Expert Systems With Applications</i> , 2019, 126, 187-199.	4.4	2
18	P4574: FUNCTIONAL CONNECTIVITY HYPOSYNCHRONIZATION IN A GROUP OF COGNITIVELY INTACT OLDER FEMALES: THE USE OF A GENETIC RISK SCORE FOR ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2019, 15, P1539.	0.4	0

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19	Inferring correlations associated to causal interactions in brain signals using autoregressive models. Scientific Reports, 2019, 9, 17041.	1.6	2
20	Dynamic low frequency EEG phase synchronization patterns during proactive control of task switching. NeuroImage, 2019, 186, 70-82.	2.1	33
21	Functional associations at global brain level during perception of an auditory illusion by applying maximal information coefficient. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 708-715.	1.2	12
22	A Neuro-Inspired System for Online Learning and Recognition of Parallel Spike Trains, Based on Spike Latency, and Heterosynaptic STDP. Frontiers in Neuroscience, 2018, 12, 780.	1.4	14
23	BDNF Val66Met Polymorphism and Gamma Band Disruption in Resting State Brain Functional Connectivity: A Magnetoencephalography Study in Cognitively Intact Older Females. Frontiers in Neuroscience, 2018, 12, 684.	1.4	3
24	Phase locking value revisited: teaching new tricks to an old dog. Journal of Neural Engineering, 2018, 15, 056011.	1.8	109
25	How to Build a Functional Connectomic Biomarker for Mild Cognitive Impairment From Source Reconstructed MEG Resting-State Activity: The Combination of ROI Representation and Connectivity Estimator Matters. Frontiers in Neuroscience, 2018, 12, 306.	1.4	48
26	The blessing of Dimensionality: Feature Selection outperforms functional connectivity-based feature transformation to classify ADHD subjects from EEG patterns of phase synchronisation. PLoS ONE, 2018, 13, e0201660.	1.1	27
27	On the role of the entorhinal cortex in the effective connectivity of the hippocampal formation. Chaos, 2017, 27, 047401.	1.0	8
28	Neural oscillatory mechanisms during novel grammar learning underlying language analytical abilities. Brain and Language, 2017, 175, 99-110.	0.8	25
29	Choice of Magnetometers and Gradiometers after Signal Space Separation. Sensors, 2017, 17, 2926.	2.1	74
30	Efficient Computation of Functional Brain Networks: toward Real-Time Functional Connectivity. Frontiers in Neuroinformatics, 2017, 11, 8.	1.3	25
31	Automated Detection of Epileptic Biomarkers in Resting-State Interictal MEG Data. Frontiers in Neuroinformatics, 2017, 11, 43.	1.3	24
32	26th Annual Computational Neuroscience Meeting (CNS*2017): Part 2. BMC Neuroscience, 2017, 18, .	0.8	7
33	Complex network structure of the creative brain at rest. International Journal of Psychophysiology, 2016, 108, 102.	0.5	0
34	Neurocognitive Decoding of Aesthetic Appreciation. , 2016, , 87-106.		3
35	Multimodal description of whole brain connectivity: <i>A comparison of resting state MEG, fMRI, and DWI</i>. Human Brain Mapping, 2016, 37, 20-34.	1.9	68
36	The variability of EEG functional connectivity of young ADHD subjects in different resting states. Clinical Neurophysiology, 2016, 127, 1321-1330.	0.7	33

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37	Scopolamine effects on functional brain connectivity: a pharmacological model of Alzheimer's disease. <i>Scientific Reports</i> , 2015, 5, 9748.	1.6	75
38	Electroencephalography signatures of attention-deficit/hyperactivity disorder: clinical utility. <i>Neuropsychiatric Disease and Treatment</i> , 2015, 11, 2755.	1.0	14
39	Assessment of ADHD Through Electroencephalographic Measures of Functional Connectivity. , 2015, , .		4
40	Electrical Brain Responses to an Auditory Illusion and the Impact of Musical Expertise. <i>PLoS ONE</i> , 2015, 10, e0129486.	1.1	24
41	What graph theory actually tells us about resting state interictal MEG epileptic activity. <i>NeuroImage: Clinical</i> , 2015, 8, 503-515.	1.4	67
42	Cognitive reserve is associated with the functional organization of the brain in healthy aging: a MEG study. <i>Frontiers in Aging Neuroscience</i> , 2014, 6, 125.	1.7	29
43	Best of both worlds: promise of combining brain stimulation and brain connectome. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 132.	1.2	61
44	Anomalous Diffuse CO2 Emissions at the Masaya Volcano (Nicaragua) Related to Seismic-Volcanic Unrest. <i>Pure and Applied Geophysics</i> , 2014, 171, 1791-1804.	0.8	7
45	Performance analysis of univariate and multivariate EEG measurements in the diagnosis of ADHD. <i>Clinical Neurophysiology</i> , 2013, 124, 1139-1150.	0.7	31
46	HERMES: Towards an Integrated Toolbox to Characterize Functional and Effective Brain Connectivity. <i>Neuroinformatics</i> , 2013, 11, 405-434.	1.5	223
47	Causal Relationships and Network Parameters in Effective Brain Connectivity. , 2013, , .		0
48	Limits to detection of generalized synchronization in delay-coupled chaotic oscillators. <i>Physical Review E</i> , 2013, 88, 062924.	0.8	4
49	Autonomic mediation of the interdependence between variability signals of heart rate and blood pressure in the lizard <i>Gallotia galloti</i> . <i>Canadian Journal of Zoology</i> , 2012, 90, 839-848.	0.4	5
50	Assessment of electroencephalographic functional connectivity in term and preterm neonates. <i>Clinical Neurophysiology</i> , 2011, 122, 696-702.	0.7	47
51	On a Possible Relationship between Linguistic Expertise and EEG Gamma Band Phase Synchrony. <i>Frontiers in Psychology</i> , 2011, 2, 334.	1.1	22
52	Topography of Functional Connectivity in Human Multichannel Electroencephalogram during Second Language Processing. <i>Lecture Notes in Computer Science</i> , 2011, , 253-262.	1.0	0
53	582 Inter and Intra-hemispheric Eeg Nonlinear Synchronization in Children with Attention Deficit Hyperactivity Disorder. <i>Pediatric Research</i> , 2010, 68, 298-299.	1.1	1
54	An index of signal mode complexity based on orthogonal transformation. <i>Journal of Computational Neuroscience</i> , 2010, 29, 13-22.	0.6	3

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55	Functional Connectivity in Mild Cognitive Impairment During a Memory Task: Implications for the Disconnection Hypothesis. <i>Journal of Alzheimer's Disease</i> , 2010, 22, 183-193.	1.2	105
56	Measuring second language proficiency with EEG synchronization: how functional cortical networks and hemispheric involvement differ as a function of proficiency level in second language speakers. <i>Second Language Research</i> , 2009, 25, 77-106.	1.2	33
57	Nonlinear Dynamical Analysis of the Interdependence Between Central and Autonomic Nervous Systems in Neonates During Sleep. <i>Journal of Biological Physics</i> , 2008, 34, 405-412.	0.7	5
58	Autonomic mediation in the interdependences between cardiocortical activity time variations and between cardiorespiratory activity time variations in the lizard, <i>Gallotia galloti</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008, 149, 11-19.	0.8	2
59	Topography of EEG complexity in human neonates: Effect of the postmenstrual age and the sleep state. <i>Neuroscience Letters</i> , 2006, 394, 152-157.	1.0	23
60	Maturational Changes in the Interdependencies between Cortical Brain Areas of Neonates during Sleep. <i>Cerebral Cortex</i> , 2006, 17, 583-590.	1.6	23
61	Comparing Generalized and Phase Synchronization in Cardiovascular and Cardiorespiratory Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 578-583.	2.5	25
62	Time-related interdependence between low-frequency cortical electrical activity and respiratory activity in lizard, <i>Gallotia galloti</i> . <i>Journal of Experimental Zoology Part A, Comparative Experimental Biology</i> , 2005, 303A, 217-226.	1.3	4
63	Nonlinear multivariate analysis of neurophysiological signals. <i>Progress in Neurobiology</i> , 2005, 77, 1-37.	2.8	983
64	Applications of Fractal and Non-linear Time Series Analysis to the Study of Short-term Cardiovascular Control. <i>Current Vascular Pharmacology</i> , 2004, 2, 149-162.	0.8	11
65	Neuronal activity in the substantia nigra in the anaesthetized rat has fractal characteristics. Evidence for firing-code patterns in the basal ganglia. <i>Experimental Brain Research</i> , 2003, 151, 167-172.	0.7	27
66	Firing regulation in dopaminergic cells: effect of the partial degeneration of nigrostriatal system in surviving neurons. <i>European Journal of Neuroscience</i> , 2003, 18, 53-60.	1.2	22
67	How is firing activity of substantia nigra cells regulated? Relevance of pattern-code in the basal ganglia. <i>Synapse</i> , 2003, 49, 216-225.	0.6	18
68	Non-linear asymmetric interdependencies in the electroencephalogram of healthy term neonates during sleep. <i>Neuroscience Letters</i> , 2003, 337, 101-105.	1.0	13
69	Effective detection of coupling in short and noisy bivariate data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2003, 33, 85-95.	5.5	39
70	Evidence of state-dependent interhemispheric relationships in lizard EEG during the awake state. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 548-555.	2.5	3
71	Interdependencies in the spontaneous EEG while listening to music. <i>International Journal of Psychophysiology</i> , 2001, 42, 287-301.	0.5	53
72	Long-Range Synchrony in the $\hat{\Gamma}^3$ Band: Role in Music Perception. <i>Journal of Neuroscience</i> , 2001, 21, 6329-6337.	1.7	138

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73	Assessment of changing interdependencies between human electroencephalograms using nonlinear methods. <i>Physica D: Nonlinear Phenomena</i> , 2001, 148, 147-158.	1.3	76
74	Application of Non-linear Analysis to Intensity Oscillations of the Chromospheric Bright Points. <i>Solar Physics</i> , 2001, 199, 267-290.	1.0	5
75	Synchronization in Brain " Assessment by Electroencephalographic Signals. <i>Lecture Notes in Computer Science</i> , 2001, , 108-116.	1.0	0
76	Relationship between cortical electrical and cardiac autonomic activities in the awake lizard, <i>Gallotia galloti</i> . <i>The Journal of Experimental Zoology</i> , 2000, 287, 21-28.	1.4	6
77	Detection and sources of nonlinearity in the variability of cardiac R-R intervals and blood pressure in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000, 279, H3040-H3046.	1.5	43
78	Nonlinear, fractal, and spectral analysis of the EEG of lizard, <i>Gallotia galloti</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1999, 277, R86-R93.	0.9	20
79	Interhemispheric differences in awake and sleep human EEG: a comparison between non-linear and spectral measures. <i>Neuroscience Letters</i> , 1999, 263, 37-40.	1.0	47
80	Non-linear behaviour of human EEG: fractal exponent versus correlation dimension in awake and sleep stages. <i>Neuroscience Letters</i> , 1998, 250, 91-94.	1.0	171