

Nelson J Trujillo-Barreto

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

5,025
citations

136950

32
h-index

138484

58
g-index

71
all docs

71
docs citations

71
times ranked

4816
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational free energy and the Laplace approximation. <i>NeuroImage</i> , 2007, 34, 220-234.	4.2	737
2	Multiple sparse priors for the M/EEG inverse problem. <i>NeuroImage</i> , 2008, 39, 1104-1120.	4.2	548
3	Intracerebral Sources of Human Auditory-Evoked Potentials. <i>Audiology and Neuro-Otology</i> , 1999, 4, 64-79.	1.3	273
4	DEM: A variational treatment of dynamic systems. <i>NeuroImage</i> , 2008, 41, 849-885.	4.2	266
5	Feature-selective attention enhances color signals in early visual areas of the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 14250-14254.	7.1	247
6	Bayesian model averaging in EEG/MEG imaging. <i>NeuroImage</i> , 2004, 21, 1300-1319.	4.2	223
7	Bayesian fMRI time series analysis with spatial priors. <i>NeuroImage</i> , 2005, 24, 350-362.	4.2	215
8	Successful memory encoding is associated with increased cross-frequency coupling between frontal theta and posterior gamma oscillations in human scalp-recorded EEG. <i>NeuroImage</i> , 2013, 66, 642-647.	4.2	198
9	3D Statistical Parametric Mapping of EEG Source Spectra by Means of Variable Resolution Electromagnetic Tomography (VARETA). <i>Clinical EEG (electroencephalography)</i> , 2001, 32, 47-61.	0.9	195
10	Realistically Coupled Neural Mass Models Can Generate EEG Rhythms. <i>Neural Computation</i> , 2007, 19, 478-512.	2.2	145
11	Directed Cortical Information Flow during Human Object Recognition: Analyzing Induced EEG Gamma-Band Responses in Brain's Source Space. <i>PLoS ONE</i> , 2007, 2, e684.	2.5	127
12	Biophysical model for integrating neuronal activity, EEG, fMRI and metabolism. <i>NeuroImage</i> , 2008, 39, 290-309.	4.2	113
13	Hearing Silences: Human Auditory Processing Relies on Preactivation of Sound-Specific Brain Activity Patterns. <i>Journal of Neuroscience</i> , 2013, 33, 8633-8639.	3.6	110
14	Modelling the role of excitatory and inhibitory neuronal activity in the generation of the BOLD signal. <i>NeuroImage</i> , 2007, 35, 149-165.	4.2	95
15	Bayesian M/EEG source reconstruction with spatio-temporal priors. <i>NeuroImage</i> , 2008, 39, 318-335.	4.2	85
16	Rapid extraction of auditory feature contingencies. <i>NeuroImage</i> , 2008, 41, 1111-1119.	4.2	84
17	Induced gamma band responses in human EEG after the control of miniature saccadic artifacts. <i>NeuroImage</i> , 2011, 57, 1411-1421.	4.2	81
18	Processing of Abstract Rule Violations in Audition. <i>PLoS ONE</i> , 2007, 2, e1131.	2.5	81

#	ARTICLE	IF	CITATIONS
19	Brain electrical tomography (BET) analysis of induced gamma band responses during a simple object recognition task. <i>NeuroImage</i> , 2006, 29, 888-900.	4.2	75
20	Sustained spatial attention to vibration is mediated in primary somatosensory cortex. <i>NeuroImage</i> , 2007, 35, 255-262.	4.2	72
21	Theta-gamma coupling during episodic retrieval in the human EEG. <i>Brain Research</i> , 2014, 1577, 57-68.	2.2	66
22	Diffusion-based spatial priors for imaging. <i>NeuroImage</i> , 2007, 38, 677-695.	4.2	65
23	Bayesian comparison of spatially regularised general linear models. <i>Human Brain Mapping</i> , 2007, 28, 275-293.	3.6	62
24	Sensorial suppression of self-generated sounds and its dependence on attention. <i>International Journal of Psychophysiology</i> , 2013, 90, 300-310.	1.0	50
25	Attentional Bias Predicts Increased Reward Salience and Risk Taking in Bipolar Disorder. <i>Biological Psychiatry</i> , 2016, 79, 311-319.	1.3	44
26	Mechanisms for detecting auditory temporal and spectral deviations operate over similar time windows but are divided differently between the two hemispheres. <i>NeuroImage</i> , 2006, 32, 275-282.	4.2	43
27	Brain Signals of Face Processing as Revealed by Event-Related Potentials. <i>Behavioural Neurology</i> , 2015, 2015, 1-16.	2.1	43
28	A formal model of interpersonal inference. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 160.	2.0	39
29	Cortical Resonance Frequencies Emerge from Network Size and Connectivity. <i>PLoS Computational Biology</i> , 2016, 12, e1004740.	3.2	39
30	Steady-state visually evoked potential correlates of object recognition. <i>Brain Research</i> , 2010, 1343, 112-121.	2.2	37
31	Effects of neurofeedback in the management of chronic pain: A systematic review and meta-analysis of clinical trials. <i>European Journal of Pain</i> , 2020, 24, 1440-1457.	2.8	35
32	Experimental Placebo Analgesia Changes Resting-State Alpha Oscillations. <i>PLoS ONE</i> , 2013, 8, e78278.	2.5	34
33	ERP generator anomalies in presymptomatic carriers of the Alzheimer's disease E280A mutation. <i>Human Brain Mapping</i> , 2010, 31, 247-265.	3.6	33
34	Early correlates of visual awareness in the human brain: Time and place from event-related brain potentials. <i>Journal of Vision</i> , 2008, 8, 21.	0.3	32
35	Sources of synchronized induced Gamma-Band responses during a simple object recognition task: A replication study in human MEG. <i>Brain Research</i> , 2008, 1196, 74-84.	2.2	30
36	Perceiving the Tree in the Woods: Segregating Brain Responses to Stimuli Constituting Natural Scenes. <i>Journal of Neuroscience</i> , 2011, 31, 17713-17718.	3.6	30

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37	A Sparse Neural Code for Some Speech Sounds but Not for Others. <i>PLoS ONE</i> , 2012, 7, e40953.	2.5	30
38	Temporal regularity facilitates higher-order sensory predictions in fast auditory sequences. <i>European Journal of Neuroscience</i> , 2014, 39, 308-318.	2.6	30
39	Repetition suppression of induced gamma band responses is eliminated by task switching. <i>European Journal of Neuroscience</i> , 2006, 24, 2654-2660.	2.6	28
40	Bayesian model selection and averaging. , 2007, , 454-467.		28
41	Impact of lower- vs. upper-hemifield presentation on automatic colour-deviance detection: A visual mismatch negativity study. <i>Brain Research</i> , 2012, 1472, 89-98.	2.2	26
42	A structural connectivity convergence zone in the ventral and anterior temporal lobes: Data-driven evidence from structural imaging. <i>Cortex</i> , 2019, 120, 298-307.	2.4	26
43	A tutorial and tool for exploring feature similarity gradients with MRI data. <i>NeuroImage</i> , 2020, 221, 117140.	4.2	26
44	Identification and comparison of stochastic metabolic/hemodynamic models (sMHM) for the generation of the BOLD signal. <i>Journal of Computational Neuroscience</i> , 2009, 26, 251-269.	1.0	24
45	A switching multi-scale dynamical network model of EEG/MEG. <i>NeuroImage</i> , 2013, 83, 262-287.	4.2	23
46	Early correlates of visual awareness following orientation and colour rivalry. <i>Vision Research</i> , 2008, 48, 2359-2369.	1.4	19
47	Repetition priming effects dissociate between miniature eye movements and induced gamma-band responses in the human electroencephalogram. <i>European Journal of Neuroscience</i> , 2013, 38, 2425-2433.	2.6	17
48	Evidence for frequency-dependent cortical plasticity in the human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8871-8876.	7.1	17
49	Entraining Alpha Activity Using Visual Stimulation in Patients With Chronic Musculoskeletal Pain: A Feasibility Study. <i>Frontiers in Neuroscience</i> , 2020, 14, 828.	2.8	13
50	Random fields' Union intersection tests for detecting functional connectivity in EEG/MEG imaging. <i>Human Brain Mapping</i> , 2009, 30, 2477-2486.	3.6	9
51	Asynchronous presentation of global and local information reveals effects of attention on brain electrical activity specific to each level. <i>Frontiers in Psychology</i> , 2015, 5, 1570.	2.1	7
52	GABA Modulates Frequency-Dependent Plasticity in Humans. <i>iScience</i> , 2020, 23, 101657.	4.1	7
53	Alpha entrainment drives pain relief using visual stimulation in a sample of chronic pain patients: a proof-of-concept controlled study. <i>NeuroReport</i> , 2021, 32, 394-398.	1.2	7
54	Long-term information and distributed neural activation are relevant for the 'internal features advantage' in face processing: Electrophysiological and source reconstruction evidence. <i>Cortex</i> , 2013, 49, 2735-2747.	2.4	5

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55	Using EEG Alpha States to Understand Learning During Alpha Neurofeedback Training for Chronic Pain. <i>Frontiers in Neuroscience</i> , 2020, 14, 620666.	2.8	5
56	Spatio-temporal models for fMRI. , 2007, , 313-322.		3
57	On the Fisher's transformation of correlation random fields. <i>Statistics and Probability Letters</i> , 2009, 79, 780-788.	0.7	3
58	Timing matters: the processing of pitch relations. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 387.	2.0	3
59	BET differences among simultaneous evoked frequency band responses during early-stage visual processing distinguish schizophrenia from healthy subjects. <i>Neuroscience Letters</i> , 2009, 450, 7-11.	2.1	2
60	Switching Attention between the Local and Global Levels in Visual Objects. , 2014, , 165-177.		2
61	Spatio-temporal models for EEG. , 2007, , 323-336.		0
62	The geometry of time-varying cross-correlation random fields. <i>Computational Statistics and Data Analysis</i> , 2009, 53, 3291-3304.	1.2	0
63	Title is missing!. , 2007, 2, e684.		0