Lester Melie-Garcia

List of Publications by Year
in descending order

43 papers	3,161 citations	279798 23 h-index	330143 37 g-index
54 all docs	54 docs citations	54 times ranked	4721 citing authors

#	Article	IF	Citations
1	Ragu: A Free Tool for the Analysis of EEG and MEG Event-Related Scalp Field Data Using Global Randomization Statistics. Computational Intelligence and Neuroscience, 2011, 2011, 1-14.	1.7	565
2	Studying the human brain anatomical network via diffusion-weighted MRI and Graph Theory. NeuroImage, 2008, 40, 1064-1076.	4.2	474
3	Characterizing brain anatomical connections using diffusion weighted MRI and graph theory. NeuroImage, 2007, 36, 645-660.	4.2	322
4	Estimating brain functional connectivity with sparse multivariate autoregression. Philosophical Transactions of the Royal Society B: Biological Sciences, 2005, 360, 969-981.	4.0	267
5	Surface area and cortical thickness descriptors reveal different attributes of the structural human brain networks. NeuroImage, 2010, 50, 1497-1510.	4.2	177
6	A Method to Determine the Presence of Averaged Event-Related Fields Using Randomization Tests. Brain Topography, 2010, 23, 233-242.	1.8	174
7	Brain Hemispheric Structural Efficiency and Interconnectivity Rightward Asymmetry in Human and Nonhuman Primates. Cerebral Cortex, 2011, 21, 56-67.	2.9	171
8	Glucose Metabolism during Resting State Reveals Abnormal Brain Networks Organization in the Alzheimerâ€™s Disease and Mild Cognitive Impairment. PLoS ONE, 2013, 8, e68860.	2.5	98
9	Evolution of white matter tract microstructure across the life span. Human Brain Mapping, 2019, 40, 2252-2268.	3.6	88
10	Neurobiological origin of spurious brain morphological changes: A quantitative MRI study. Human Brain Mapping, 2016, 37, 1801-1815.	3.6	87
11	Mathematical description of qâ€space in spherical coordinates: Exact qâ€ball imaging. Magnetic Resonance in Medicine, 2009, 61, 1350-1367.	3.0	72
12	Studying the topological organization of the cerebral blood flow fluctuations in resting state. NeuroImage, 2013, 64, 173-184.	4.2	55
13	Establishing correlations of scalp field maps with other experimental variables using covariance analysis and resampling methods. Clinical Neurophysiology, 2008, 119, 1262-1270.	1.5	49
14	Multimodal Quantitative Neuroimaging Databases and Methods: The Cuban Human Brain Mapping Project. Clinical EEG and Neuroscience, 2011, 42, 149-159.	1.7	47
15	Converging patterns of aging-associated brain volume loss and tissue microstructure differences. Neurobiology of Aging, 2020, 88, 108-118.	3.1	43
16	Association of Brain Atrophy With Disease Progression Independent of Relapse Activity in Patients With Relapsing Multiple Sclerosis. JAMA Neurology, 2022, 79, 682.	9.0	41
17	Validation of Network Communicability Metrics for the Analysis of Brain Structural Networks. PLoS ONE, 2014, 9, e115503.	2.5	40
18	Functional Connectivity and Quantitative EEG in Women with Alcohol Use Disorders: A Resting-State Study. Brain Topography, 2016, 29, 368-381.	1.8	36

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19	Networks of myelin covariance. Human Brain Mapping, 2018, 39, 1532-1554.	3.6	36
20	Covert face recognition without the fusiform-temporal pathways. NeuroImage, 2011, 57, 1162-1176.	4.2	35
21	Deconvolution in diffusion spectrum imaging. NeuroImage, 2010, 50, 136-149.	4.2	31
22	Statistical analysis of multichannel scalp field data. , 0, , 169-190.		30
23	Diffusion orientation transform revisited. NeuroImage, 2010, 49, 1326-1339.	4.2	29
24	Spherical Deconvolution of Multichannel Diffusion MRI Data with Non-Gaussian Noise Models and Spatial Regularization. PLoS ONE, 2015, 10, e0138910.	2.5	27
25	Automated Discrimination of Brain Pathological State Attending to Complex Structural Brain Network Properties: The Shiverer Mutant Mouse Case. PLoS ONE, 2011, 6, e19071.	2.5	20
26	Effects of eight neuropsychiatric copy number variants on human brain structure. Translational Psychiatry, 2021, 11, 399.	4.8	18
27	A Bayesian framework to identify principal intravoxel diffusion profiles based on diffusion-weighted MR imaging. NeuroImage, 2008, 42, 750-770.	4.2	17
28	Repeatability Analysis of Global and Local Metrics of Brain Structural Networks. Brain Connectivity, 2014, 4, 203-220.	1.7	17
29	Spatial Resolution and Imaging Encoding fMRI Settings for Optimal Cortical and Subcortical Motor Somatotopy in the Human Brain. Frontiers in Neuroscience, 2019, 13, 571.	2.8	14
30	Granger Causality on Spatial Manifolds: Applications to Neuroimaging. , 0, , 461-491.		12
31	Simultaneous estimation of population receptive field and hemodynamic parameters from single point BOLD responses using Metropolis-Hastings sampling. NeuroImage, 2018, 172, 175-193.	4.2	12
32	Subtle alterations in cerebrovascular reactivity in mild cognitive impairment detected by graph theoretical analysis and not by the standard approach. NeuroImage: Clinical, 2017, 15, 151-160.	2.7	8
33	Inferring multiple maxima in intravoxel white matter fiber distribution. Magnetic Resonance in Medicine, 2008, 60, 616-630.	3.0	7
34	Episodic memory in mild cognitive impairment inversely correlates with the global modularity of the cerebral blood flow network. Psychiatry Research - Neuroimaging, 2018, 282, 73-81.	1.8	7
35	Apolipoprotein E4 effects on topological brain network organization in mild cognitive impairment. Scientific Reports, 2021, 11, 845.	3.3	6
36	Mapping grip force to motor networks. NeuroImage, 2021, 229, 117735.	4.2	6

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37	Dopaminergic modulation of motor network compensatory mechanisms in Parkinson's disease. Human Brain Mapping, 2019, 40, 4397-4416.	3.6	4
38	Remodeling of brain morphology in temporal lobe epilepsy. Brain and Behavior, 2020, 10, e01825.	2.2	3
39	Apolipoprotein E allele 4 effects on Single-Subject Gray Matter Networks in Mild Cognitive Impairment. NeuroImage: Clinical, 2021, 32, 102799.	2.7	2
40	[P2â€“387]: EPISODIC MEMORY IN MILD COGNITIVE IMPAIRMENT INVERSELY CORRELATES WITH THE PATIENT CONTRIBUTION TO CEREBRAL BLOOD FLOW NETWORK MODULARITY. Alzheimer's and Dementia, 2017, 13, P777.	0.8	0
41	General Principles of Gene Dosage Effects on Brain Structure. Biological Psychiatry, 2020, 87, S177.	1.3	0
42	Complex Mouse Brain Anatomical Network Attributes Estimated via Diffusion- MRI Data and Graph Theory. IFMBE Proceedings, 2013, , 65-68.	0.3	0
43	Sistema para el Registro y Procesamiento en LÃnea del EEG Sincronizando la PresentaciÃ³n de EstÃmulos con las Variaciones de los Niveles de EnergÃa. IFMBE Proceedings, 2013, , 1118-1121.	0.3	0