Roberto C Sotero

List of Publications by Year
in descending order

27 papers	1,534 citations	516710 16 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	2480 citing authors

#	Article	IF	Citations
1	Studying the human brain anatomical network via diffusion-weighted MRI and Graph Theory. NeuroImage, 2008, 40, 1064-1076.	4.2	474
2	Epidemic Spreading Model to Characterize Misfolded Proteins Propagation in Aging and Associated Neurodegenerative Disorders. PLoS Computational Biology, 2014, 10, e1003956.	3.2	151
3	Realistically Coupled Neural Mass Models Can Generate EEG Rhythms. Neural Computation, 2007, 19, 478-512.	2.2	145
4	Biophysical model for integrating neuronal activity, EEG, fMRI and metabolism. NeuroImage, 2008, 39, 290-309.	4.2	113
5	Multifactorial causal model of brain (dis)organization and therapeutic intervention: Application to Alzheimer's disease. NeuroImage, 2017, 152, 60-77.	4.2	107
6	Modelling the role of excitatory and inhibitory neuronal activity in the generation of the BOLD signal. NeuroImage, 2007, 35, 149-165.	4.2	95
7	Topological Properties of Resting-State fMRI Functional Networks Improve Machine Learning-Based Autism Classification. Frontiers in Neuroscience, 2018, 12, 1018.	2.8	77
8	White Matter Structural Connectivity Is Not Correlated to Cortical Resting-State Functional Connectivity over the Healthy Adult Lifespan. Frontiers in Aging Neuroscience, 2017, 9, 144.	3.4	51
9	Measuring transient phase-amplitude coupling using local mutual information. NeuroImage, 2019, 185, 361-378.	4.2	41
10	Laminar Distribution of Phase-Amplitude Coupling of Spontaneous Current Sources and Sinks. Frontiers in Neuroscience, 2015, 9, 454.	2.8	37
11	Topology, Cross-Frequency, and Same-Frequency Band Interactions Shape the Generation of Phase-Amplitude Coupling in a Neural Mass Model of a Cortical Column. PLoS Computational Biology, 2016, 12, e1005180.	3.2	32
12	The Importance of Anti-correlations in Graph Theory Based Classification of Autism Spectrum Disorder. Frontiers in Neuroscience, 2020, 14, 676.	2.8	29
13	ANATOMICALLY-CONSTRAINED EFFECTIVE CONNECTIVITY AMONG LAYERS IN A CORTICAL COLUMN MODELED AND ESTIMATED FROM LOCAL FIELD POTENTIALS. Journal of Integrative Neuroscience, 2010, 09, 355-379.	1.7	25
14	Identification and comparison of stochastic metabolic/hemodynamic models (sMHM) for the generation of the BOLD signal. Journal of Computational Neuroscience, 2009, 26, 251-269.	1.0	24
15	Modeling the Generation of Phase-Amplitude Coupling in Cortical Circuits: From Detailed Networks to Neural Mass Models. BioMed Research International, 2015, 2015, 1-12.	1.9	23
16	From Blood Oxygenation Level Dependent (BOLD) Signals to Brain Temperature Maps. Bulletin of Mathematical Biology, 2011, 73, 2731-2747.	1.9	21
17	Design of optimal nonlinear network controllers for Alzheimer's disease. PLoS Computational Biology, 2018, 14, e1006136.	3.2	21
18	Dynamical Mean Field Model of a Neural-Glial Mass. Neural Computation, 2010, 22, 969-997.	2.2	13

#	Article	IF	Citations
19	What Can Local Transfer Entropy Tell Us about Phase-Amplitude Coupling in Electrophysiological Signals?. Entropy, 2020, 22, 1262.	2.2	11
20	Detecting brain network communities: Considering the role of information flow and its different temporal scales. NeuroImage, 2021, 225, 117431.	4.2	11
21	Spatiotemporal Empirical Mode Decomposition of Resting-State fMRI Signals: Application to Global Signal Regression. Frontiers in Neuroscience, 2019, 13, 736.	2.8	8
22	Energy-based stochastic control of neural mass models suggests time-varying effective connectivity in the resting state. Journal of Computational Neuroscience, 2012, 32, 563-576.	1.0	6
23	Multifocus image fusion via the Hartley transform. , 2016, , .		5
24	Cross-Frequency Interactions During Information Flow in Complex Brain Networks Are Facilitated by Scale-Free Properties. Frontiers in Physics, 2019, 7, .	2.1	5
25	From Micro- to Macroscopic Brain Connectivity Using Multiple Modalities. BioMed Research International, 2016, 2016, 1-2.	1.9	2
26	Holo-Hilbert spectral-based noise removal method for EEG high-frequency bands. Journal of Neuroscience Methods, 2022, 368, 109470.	2.5	2
27	From Blood Oxygenation Level Dependent (BOLD) signals to brain temperature maps. Nature Precedings, 2010, , .	0.1	0