

# Roberto C Sotero

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11156114/publications.pdf>

Version: 2024-02-01

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	Holo-Hilbert spectral-based noise removal method for EEG high-frequency bands. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109470.	2.5	2
2	Detecting brain network communities: Considering the role of information flow and its different temporal scales. <i>NeuroImage</i> , 2021, 225, 117431.	4.2	11
3	What Can Local Transfer Entropy Tell Us about Phase-Amplitude Coupling in Electrophysiological Signals?. <i>Entropy</i> , 2020, 22, 1262.	2.2	11
4	The Importance of Anti-correlations in Graph Theory Based Classification of Autism Spectrum Disorder. <i>Frontiers in Neuroscience</i> , 2020, 14, 676.	2.8	29
5	Spatiotemporal Empirical Mode Decomposition of Resting-State fMRI Signals: Application to Global Signal Regression. <i>Frontiers in Neuroscience</i> , 2019, 13, 736.	2.8	8
6	Cross-Frequency Interactions During Information Flow in Complex Brain Networks Are Facilitated by Scale-Free Properties. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	5
7	Measuring transient phase-amplitude coupling using local mutual information. <i>NeuroImage</i> , 2019, 185, 361-378.	4.2	41
8	Design of optimal nonlinear network controllers for Alzheimer's disease. <i>PLoS Computational Biology</i> , 2018, 14, e1006136.	3.2	21
9	Topological Properties of Resting-State fMRI Functional Networks Improve Machine Learning-Based Autism Classification. <i>Frontiers in Neuroscience</i> , 2018, 12, 1018.	2.8	77
10	Multifactorial causal model of brain (dis)organization and therapeutic intervention: Application to Alzheimer's disease. <i>NeuroImage</i> , 2017, 152, 60-77.	4.2	107
11	White Matter Structural Connectivity Is Not Correlated to Cortical Resting-State Functional Connectivity over the Healthy Adult Lifespan. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 144.	3.4	51
12	From Micro- to Macroscopic Brain Connectivity Using Multiple Modalities. <i>BioMed Research International</i> , 2016, 2016, 1-2.	1.9	2
13	Topology, Cross-Frequency, and Same-Frequency Band Interactions Shape the Generation of Phase-Amplitude Coupling in a Neural Mass Model of a Cortical Column. <i>PLoS Computational Biology</i> , 2016, 12, e1005180.	3.2	32
14	Multifocus image fusion via the Hartley transform. , 2016, , .		5
15	Laminar Distribution of Phase-Amplitude Coupling of Spontaneous Current Sources and Sinks. <i>Frontiers in Neuroscience</i> , 2015, 9, 454.	2.8	37
16	Modeling the Generation of Phase-Amplitude Coupling in Cortical Circuits: From Detailed Networks to Neural Mass Models. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	23
17	Epidemic Spreading Model to Characterize Misfolded Proteins Propagation in Aging and Associated Neurodegenerative Disorders. <i>PLoS Computational Biology</i> , 2014, 10, e1003956.	3.2	151
18	Energy-based stochastic control of neural mass models suggests time-varying effective connectivity in the resting state. <i>Journal of Computational Neuroscience</i> , 2012, 32, 563-576.	1.0	6

#	ARTICLE	IF	CITATIONS
19	From Blood Oxygenation Level Dependent (BOLD) Signals to Brain Temperature Maps. Bulletin of Mathematical Biology, 2011, 73, 2731-2747.	1.9	21
20	From Blood Oxygenation Level Dependent (BOLD) signals to brain temperature maps. Nature Precedings, 2010, , .	0.1	0
21	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
22	Dynamical Mean Field Model of a Neural-Glial Mass. Neural Computation, 2010, 22, 969-997.	2.2	13
23	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
24	Biophysical model for integrating neuronal activity, EEG, fMRI and metabolism. NeuroImage, 2008, 39, 290-309.	4.2	113
25	Studying the human brain anatomical network via diffusion-weighted MRI and Graph Theory. NeuroImage, 2008, 40, 1064-1076.	4.2	474
26	Realistically Coupled Neural Mass Models Can Generate EEG Rhythms. Neural Computation, 2007, 19, 478-512.	2.2	145
27	Modelling the role of excitatory and inhibitory neuronal activity in the generation of the BOLD signal. NeuroImage, 2007, 35, 149-165.	4.2	95