JoÃ£o Ricardo Sato

List of Publications by Year
in descending order

119 papers	3,146 citations	201385 27 h-index	197535 49 g-index
130 all docs	130 docs citations	130 times ranked	5181 citing authors

#	Article	IF	Citations
1	On the relationships between CO_2 emissions, energy consumption and income: The importance of time variation. Energy Economics, 2015, 49, 629-638.	5.6	264
2	fNIRS Optodes' Location Decider (fOLD): a toolbox for probe arrangement guided by brain regions-of-interest. Scientific Reports, 2018, 8, 3341.	1.6	172
3	Time-varying analysis of CO_2 emissions, energy consumption, and economic growth nexus: Statistical experience in next 11 countries. Energy Policy, 2016, 98, 33-48.	4.2	159
4	High risk cohort study for psychiatric disorders in childhood: rationale, design, methods and preliminary results. International Journal of Methods in Psychiatric Research, 2015, 24, 58-73.	1.1	148
5	A method to produce evolving functional connectivity maps during the course of an fMRI experiment using wavelet-based time-varying Granger causality. NeuroImage, 2006, 31, 187-196.	2.1	132
6	Beyond the target area: an integrative view of tDCS-induced motor cortex modulation in patients and athletes. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 141.	2.4	89
7	Use of SVM Methods with Surface-Based Cortical and Volumetric Subcortical Measurements to Detect Alzheimer's Disease. Journal of Alzheimer's Disease, 2010, 19, 1263-1272.	1.2	82
8	Acute Biphasic Effects of Ayahuasca. PLoS ONE, 2015, 10, e0137202.	1.1	82
9	Abnormal Functional Resting-State Networks in ADHD: Graph Theory and Pattern Recognition Analysis of fMRI Data. BioMed Research International, 2014, 2014, 1-10.	0.9	80
10	Abnormal Brain Connectivity Patterns in Adults with ADHD: A Coherence Study. PLoS ONE, 2012, 7, e45671.	1.1	74
11	Age effects on the default mode and control networks in typically developing children. Journal of Psychiatric Research, 2014, 58, 89-95.	1.5	74
12	Evaluation of Pattern Recognition and Feature Extraction Methods in ADHD Prediction. Frontiers in Systems Neuroscience, 2012, 6, 68.	1.2	64
13	Long-term structural changes after mTBI and their relation to post-concussion symptoms. Brain Injury, 2015, 29, 1211-1218.	0.6	58
14	Inter-regional cortical thickness correlations are associated with autistic symptoms: A machine-learning approach. Journal of Psychiatric Research, 2013, 47, 453-459.	1.5	57
15	Lexical-retrieval and semantic memory in Parkinson's disease: The question of noun and verb dissociation. Brain and Language, 2017, 165, 10-20.	0.8	49
16	Measuring network's entropy in ADHD: A new approach to investigate neuropsychiatric disorders. NeuroImage, 2013, 77, 44-51.	2.1	48
17	Non-neuronal evoked and spontaneous hemodynamic changes in the anterior temporal region of the human head may lead to misinterpretations of functional near-infrared spectroscopy signals. Neurophotonics, 2017, 5, 1.	1.7	48
18	Discriminating Different Classes of Biological Networks by Analyzing the Graphs Spectra Distribution. PLoS ONE, 2012, 7, e49949.	1.1	47

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19	COMPARING PEARSON, SPEARMAN AND HOEFFDING'S D MEASURE FOR GENE EXPRESSION ASSOCIATION ANALYSIS. Journal of Bioinformatics and Computational Biology, 2009, 07, 663-684.	0.3	46
20	Evaluating SVM and MLDA in the extraction of discriminant regions for mental state prediction. NeuroImage, 2009, 46, 105-114.	2.1	45
21	Decreased centrality of subcortical regions during the transition to adolescence: A functional connectivity study. NeuroImage, 2015, 104, 44-51.	2.1	43
22	Is there an Environmental Kuznets Curve for South Africa? A co-summability approach using a century of data. Energy Economics, 2015, 52, 136-141.	5.6	42
23	Maximum-uncertainty linear discrimination analysis of first-episode schizophrenia subjects. Psychiatry Research - Neuroimaging, 2011, 191, 174-181.	0.9	39
24	Abnormal Cortico-Cerebellar Functional Connectivity in Autism Spectrum Disorder. Frontiers in Systems Neuroscience, 2018, 12, 74.	1.2	37
25	Changes in gene expression and methylation in the blood of patients with first-episode psychosis. Schizophrenia Research, 2014, 159, 358-364.	1.1	35
26	Default mode network maturation and psychopathology in children and adolescents. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2016, 57, 55-64.	3.1	31
27	GeoSES: A socioeconomic index for health and social research in Brazil. PLoS ONE, 2020, 15, e0232074.	1.1	31
28	Age-effects in white matter using associated diffusion tensor imaging and magnetization transfer ratio during late childhood and early adolescence. Magnetic Resonance Imaging, 2016, 34, 529-534.	1.0	29
29	Hyperplane navigation: A method to set individual scores in fMRI group datasets. NeuroImage, 2008, 42, 1473-1480.	2.1	28
30	Structural covariance in schizophrenia and first-episode psychosis: An approach based on graph analysis. Journal of Psychiatric Research, 2015, 71, 89-96.	1.5	28
31	Altered Functional Connectivity Between Precuneus and Motor Systems in Parkinson's Disease Patients. Brain Connectivity, 2017, 7, 643-647.	0.8	28
32	Functional Spectroscopy Mapping of Pain Processing Cortical Areas During Non-painful Peripheral Electrical Stimulation of the Accessory Spinal Nerve. Frontiers in Human Neuroscience, 2019, 13, 200.	1.0	28
33	Can neuroimaging be used as a support to diagnosis of borderline personality disorder? An approach based on computational neuroanatomy and machine learning. Journal of Psychiatric Research, 2012, 46, 1126-1132.	1.5	27
34	Temporal stability of network centrality in control and default mode networks: Specific associations with externalizing psychopathology in children and adolescents. Human Brain Mapping, 2015, 36, 4926-4937.	1.9	25
35	Decreased centrality of cortical volume covariance networks in autism spectrum disorders. Journal of Psychiatric Research, 2015, 69, 142-149.	1.5	25
36	Gene expression in blood of children and adolescents: Mediation between childhood maltreatment and major depressive disorder. Journal of Psychiatric Research, 2017, 92, 24-30.	1.5	25

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37	Effects of a 7-Day Meditation Retreat on the Brain Function of Meditators and Non-Meditators During an Attention Task. Frontiers in Human Neuroscience, 2018, 12, 222.	1.0	25
38	Structural and functional papez circuit integrity in amyotrophic lateral sclerosis. Brain Imaging and Behavior, 2018, 12, 1622-1630.	1.1	24
39	Greater Anteroposterior Default Mode Network Functional Connectivity in Long-Term Elderly Yoga Practitioners. Frontiers in Aging Neuroscience, 2019, 11, 158.	1.7	23
40	Genetic risk for Alzheimer's disease and functional brain connectivity in children and adolescents. Neurobiology of Aging, 2019, 82, 10-17.	1.5	23
41	Morphometric hemispheric asymmetry of orbitofrontal cortex in women with borderline personality disorder: A multi-parameter approach. Psychiatry Research - Neuroimaging, 2014, 223, 61-66.	0.9	22
42	Gene-Environment Interaction in Youth Depression: Replication of the 5-HTTLPR Moderation in a Diverse Setting. American Journal of Psychiatry, 2015, 172, 978-985.	4.0	22
43	Personality traits in juvenile myoclonic epilepsy: Evidence of cortical abnormalities from a surface morphometry study. Epilepsy and Behavior, 2013, 27, 385-392.	0.9	21
44	MODELING NONLINEAR GENE REGULATORY NETWORKS FROM TIME SERIES GENE EXPRESSION DATA. Journal of Bioinformatics and Computational Biology, 2008, 06, 961-979.	0.3	20
45	Complex Network Measures in Autism Spectrum Disorders. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 581-587.	1.9	20
46	Methylphenidate Alters Functional Connectivity of Default Mode Network in Drug-Naive Male Adults With ADHD. Journal of Attention Disorders, 2020, 24, 447-455.	1.5	20
47	Functional clustering of time series gene expression data by Granger causality. BMC Systems Biology, 2012, 6, 137.	3.0	19
48	ACE I/D genotype-related increase in ACE plasma activity is a better predictor for schizophrenia diagnosis than the genotype alone. Schizophrenia Research, 2015, 164, 109-114.	1.1	19
49	Identifying individuals using fNIRS-based cortical connectomes. Biomedical Optics Express, 2019, 10, 2889.	1.5	19
50	An integrative approach to investigate the respective roles of single-nucleotide variants and copy-number variants in Attention-Deficit/Hyperactivity Disorder. Scientific Reports, 2016, 6, 22851.	1.6	18
51	Investigating brain structural patterns in first episode psychosis and schizophrenia using MRI and a machine learning approach. Psychiatry Research - Neuroimaging, 2018, 275, 14-20.	0.9	18
52	Predicting Student Performance Using Machine Learning in fNIRS Data. Frontiers in Human Neuroscience, 2021, 15, 622224.	1.0	18
53	An fMRI normative database for connectivity networks using oneâ€class support vector machines. Human Brain Mapping, 2009, 30, 1068-1076.	1.9	17
54	Measuring Abnormal Brains: Building Normative Rules in Neuroimaging Using One-Class Support Vector Machines. Frontiers in Neuroscience, 2012, 6, 178.	1.4	17

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55	Is there an association between cortical thickness, age of onset, and duration of illness in schizophrenia?. CNS Spectrums, 2013, 18, 315-321.	0.7	17
56	Relationship Between Surfaceâ€Based Brain Morphometric Measures and Intelligence in Autism Spectrum Disorders: Influence of History of Language Delay. Autism Research, 2015, 8, 556-566.	2.1	17
57	Impact of communicative head movements on the quality of functional near-infrared spectroscopy signals: negligible effects for affirmative and negative gestures and consistent artifacts related to raising eyebrows. Journal of Biomedical Optics, 2017, 22, 046010.	1.4	17
58	Regional Dynamics of the Resting Brain in Amyotrophic Lateral Sclerosis Using Fractional Amplitude of Low-Frequency Fluctuations and Regional Homogeneity Analyses. Brain Connectivity, 2019, 9, 356-364.	0.8	17
59	DWTâ€"CEM: an algorithm for scale-temporal clustering in fMRI. Biological Cybernetics, 2007, 97, 33-45.	0.6	16
60	A New Statistical Approach for fNIRS Hyperscanning to Predict Brain Activity of Preschoolersâ€™ Using Teacherâ€™s. Frontiers in Human Neuroscience, 2021, 15, 622146.	1.0	16
61	IDENTIFICATION OF GRANGER CAUSALITY BETWEEN GENE SETS. Journal of Bioinformatics and Computational Biology, 2010, 08, 679-701.	0.3	13
62	Evaluation of neurotransmitter receptor gene expression identifies GABA receptor changes: A follow-up study in antipsychotic-naÃ¯ve patients with first-episode psychosis. Journal of Psychiatric Research, 2014, 56, 130-136.	1.5	13
63	Motor Readiness Increases Brain Connectivity Between Default-Mode Network and Motor Cortex: Impact on Sampling Resting Periods from fMRI Event-Related Studies. Brain Connectivity, 2015, 5, 631-640.	0.8	13
64	Identification of segregated regions in the functional brain connectome of autistic patients by a combination of fuzzy spectral clustering and entropy analysis. Journal of Psychiatry and Neuroscience, 2016, 41, 124-132.	1.4	13
65	Connectome hubs at resting state in children and adolescents: Reproducibility and psychopathological correlation. Developmental Cognitive Neuroscience, 2016, 20, 2-11.	1.9	13
66	Association between abnormal brain functional connectivity in children and psychopathology: A study based on graph theory and machine learning. World Journal of Biological Psychiatry, 2018, 19, 119-129.	1.3	13
67	Defining Multivariate Normative Rules for Healthy Aging using Neuroimaging and Machine Learning: An Application to Alzheimer's Disease. Journal of Alzheimer's Disease, 2014, 43, 201-212.	1.2	12
68	Granger Causality in Systems Biology: Modeling Gene Networks in Time Series Microarray Data Using Vector Autoregressive Models. Lecture Notes in Computer Science, 2010, , 13-24.	1.0	12
69	Measuring cortical motor hemodynamics during assisted stepping â€" An fNIRS feasibility study of using a walker. Gait and Posture, 2017, 56, 112-118.	0.6	11
70	Correlation between graphs with an application to brain network analysis. Computational Statistics and Data Analysis, 2017, 109, 76-92.	0.7	11
71	Effects of the brain-derived neurotropic factor variant Val66Met on cortical structure in late childhood and early adolescence. Journal of Psychiatric Research, 2018, 98, 51-58.	1.5	11
72	Default Mode Network Maturation and Environmental Adversities During Childhood. Chronic Stress, 2018, 2, 247054701880829.	1.7	11

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73	Effect of male-specific childhood trauma on telomere length. Journal of Psychiatric Research, 2018, 107, 104-109.	1.5	11
74	Sensorimotor white matter projections and disease severity in primary Restless Legs Syndrome/Willis-Ekbom disease: a multimodal DTI analysis. Sleep Medicine, 2020, 73, 106-116.	0.8	10
75	Papez Circuit Gray Matter and Episodic Memory in Amyotrophic Lateral Sclerosis and Behavioural Variant Frontotemporal Dementia. Brain Imaging and Behavior, 2021, 15, 996-1006.	1.1	10
76	Long‐term stability of the cortical volumetric profile and the functional human connectome throughout childhood and adolescence. European Journal of Neuroscience, 2021, 54, 6187-6201.	1.2	10
77	The impact of functional connectivity changes on support vector machines mapping of fMRI data. Journal of Neuroscience Methods, 2008, 172, 94-104.	1.3	9
78	Morphometric MRI features are associated with surgical outcome in mesial temporal lobe epilepsy with hippocampal sclerosis. Epilepsy Research, 2017, 132, 78-83.	0.8	9
79	Associations between children's family environment, spontaneous brain oscillations, and emotional and behavioral problems. European Child and Adolescent Psychiatry, 2019, 28, 835-845.	2.8	9
80	Combining the intersubject correlation analysis and the multivariate distance matrix regression to evaluate associations between fNIRS signals and behavioral data from ecological experiments. Experimental Brain Research, 2020, 238, 2399-2408.	0.7	9
81	Efficacy and safety of HD-tDCS and respiratory rehabilitation for critically ill patients with COVID-19 The HD-RECOVERY randomized clinical trial. Brain Stimulation, 2022, 15, 780-788.	0.7	8
82	Hand motor learning in a musical context and prefrontal cortex hemodynamic response: a functional near-infrared spectroscopy (fNIRS) study. Cognitive Processing, 2019, 20, 507-513.	0.7	7
83	Quality of life is related to the functional connectivity of the default mode network at rest. Brain Imaging and Behavior, 2019, 13, 1418-1426.	1.1	7
84	Socioeconomic status in children is associated with spontaneous activity in right superior temporal gyrus. Brain Imaging and Behavior, 2020, 14, 961-970.	1.1	7
85	Global efficiency of the motor network is decreased in Parkinson's disease in comparison with essential tremor and healthy controls. Brain and Behavior, 2021, 11, e02178.	1.0	7
86	Task-related brain activity and functional connectivity in upper limb dystonia: a functional magnetic resonance imaging (fMRI) and functional near-infrared spectroscopy (fNIRS) study. Neurophotonics, 2020, 7, 045004.	1.7	7
87	Children with Poor Reading Skills at the Word Level Show Reduced Fractional Anisotropy in White Matter Tracts of Both Hemispheres. Brain Connectivity, 2016, 6, 519-523.	0.8	6
88	Association Between Fractional Amplitude of Low-Frequency Spontaneous Fluctuation and Degree Centrality in Children and Adolescents. Brain Connectivity, 2019, 9, 379-387.	0.8	6
89	Frontal Hemodynamic Response During Step Initiation Under Cognitive Conflict in Older and Young Healthy People. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 216-223.	1.7	6
90	Morphometric MRI features and surgical outcome in patients with epilepsy related to hippocampal sclerosis and low intellectual quotient. Epilepsy and Behavior, 2018, 82, 144-149.	0.9	5

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91	Estimating Gender and Age from Brain Structural MRI of Children and Adolescents: A 3D Convolutional Neural Network Multitask Learning Model. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	5
92	Quantitative assessment of pilot-endured workloads during helicopter flying emergencies: an analysis of physiological parameters during an autorotation. Scientific Reports, 2021, 11, 17734.	1.6	5
93	A Multi-linear Discriminant Analysis of 2D Frontal Face Images. , 2009, , .		4
94	Semantic memory for actions as assessed by the Kissing and Dancing Test: Education and age effects in cognitively healthy individuals. Dementia E Neuropsychologia, 2014, 8, 216-222.	0.3	4
95	Neuroimaging Association Scores: reliability and validity of aggregate measures of brain structural features linked to mental disorders in youth. European Child and Adolescent Psychiatry, 2020, 30, 1895-1906.	2.8	4
96	Is treatment-resistant schizophrenia associated with distinct neurobiological callosal connectivity abnormalities?. CNS Spectrums, 2021, 26, 545-549.	0.7	4
97	Assessing the educational performance of different Brazilian school cycles using data science methods. PLoS ONE, 2021, 16, e0248525.	1.1	4
98	Granger Causality among Graphs and Application to Functional Brain Connectivity in Autism Spectrum Disorder. Entropy, 2021, 23, 1204.	1.1	4
99	Prevalence and trends of mental disorders requiring inpatient care in the city of Porto Alegre: a citywide study including all inpatient admissions due to mental disorders in the public system from 2013-2017. Trends in Psychiatry and Psychotherapy, 2020, 42, 86-91.	0.4	4
100	Potential Confounders in the Analysis of Brazilian Adolescent's Health: A Combination of Machine Learning and Graph Theory. International Journal of Environmental Research and Public Health, 2020, 17, 90.	1.2	3
101	Student's Perspective and Teachers' Metacognition: Applications of Eye-Tracking in Education and Scientific Research in Schools. Frontiers in Psychology, 2021, 12, 673615.	1.1	3
102	A guide for the use of fNIRS in microcephaly associated to congenital Zika virus infection. Scientific Reports, 2021, 11, 19270.	1.6	3
103	Cognitive performance in transient global hypoxic brain injury due to moderate drowning. Journal of Clinical and Experimental Neuropsychology, 2018, 40, 462-472.	0.8	2
104	Association between spontaneous activity of the default mode network hubs and leukocyte telomere length in late childhood and early adolescence. Journal of Psychosomatic Research, 2019, 127, 109864.	1.2	2
105	Communication Intervention Using Digital Technology to Facilitate Informed Choices at Childbirth in the Context of the COVID-19 Pandemic: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 2021, 10, e25016.	0.5	2
106	A Multi-Linear Statistical Method for Discriminant Analysis of 2D Frontal Face Images. Advances in Computational Intelligence and Robotics Book Series, 2012, , 18-33.	0.4	2
107	Differences in brain activity between fast and slow responses on psychomotor vigilance task: an fNIRS study. Brain Imaging and Behavior, 2022, 16, 1563-1574.	1.1	2
108	Probing the genetic and molecular correlates of connectome alterations in obsessive-compulsive disorder. Molecular Psychiatry, 2022, 27, 3558-3559.	4.1	2

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109	Inferring Contagion in Regulatory Networks. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 570-576.	1.9	1
110	Network analysis of neuropsychiatry disorders. , 2020, , 397-408.		1
111	Associations between Family Functioning and Maternal Behavior on Default Mode Network Connectivity in School-Age Children. International Journal of Environmental Research and Public Health, 2022, 19, 6055.	1.2	1
112	Directed wavelet covariance. Computational Statistics and Data Analysis, 2019, 130, 61-79.	0.7	0
113	Commute Time as a Method to Explore Brain Functional Connectomes. Brain Connectivity, 2019, 9, 155-161.	0.8	0
114	Inferring the heritability of large-scale functional networks with a multivariate ACE modeling approach. Network Neuroscience, 2021, 5, 527-548.	1.4	0
115	Influência das cores no contexto educacional de Ciências e Matemática: uma revisão de literatura sobre a utilização de eye-tracking. Amazônia, 2021, 17, 244.	0.0	0
116	GeoSES: A socioeconomic index for health and social research in Brazil. , 2020, 15, e0232074.		0
117	GeoSES: A socioeconomic index for health and social research in Brazil. , 2020, 15, e0232074.		0
118	GeoSES: A socioeconomic index for health and social research in Brazil. , 2020, 15, e0232074.		0
119	GeoSES: A socioeconomic index for health and social research in Brazil. , 2020, 15, e0232074.		0