

James A Roberts

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,534
citations

318942

23
h-index

325983

40
g-index

49
all docs

49
docs citations

49
times ranked

3018
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk of sustained SARS-CoV-2 transmission in Queensland, Australia. <i>Scientific Reports</i> , 2022, 12, 6309.	1.6	5
2	ADHD symptoms map onto noise-driven structureâ€“function decoupling between hub and peripheral brain regions. <i>Molecular Psychiatry</i> , 2021, 26, 4036-4045.	4.1	19
3	Stochastic synchronization of dynamics on the human connectome. <i>NeuroImage</i> , 2021, 229, 117738.	2.1	19
4	Automated detection of artefacts in neonatal EEG with residual neural networks. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106194.	2.6	13
5	Manipulating the structure of natural scenes using wavelets to study the functional architecture of perceptual hierarchies in the brain. <i>NeuroImage</i> , 2020, 221, 117173.	2.1	10
6	Reliability and accuracy of EEG interpretation for estimating age in preterm infants. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1564-1573.	1.7	11
7	Automated cotâ€“side tracking of functional brain age in preterm infants. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 891-902.	1.7	33
8	Large-scale brain modes reorganize between infant sleep states and carry prognostic information for preterms. <i>Nature Communications</i> , 2019, 10, 2619.	5.8	65
9	Metastable brain waves. <i>Nature Communications</i> , 2019, 10, 1056.	5.8	170
10	Development of frontoparietal connectivity predicts longitudinal symptom changes in young people with autism spectrum disorder. <i>Translational Psychiatry</i> , 2019, 9, 86.	2.4	40
11	Synaptic assays: using biophysical models to infer neuronal dysfunction from non-invasive EEG. <i>Brain</i> , 2018, 141, 1583-1583.	3.7	3
12	Fragility and volatility of structural hubs in the human connectome. <i>Nature Neuroscience</i> , 2018, 21, 1107-1116.	7.1	93
13	Quantification of free-living activity patterns using accelerometry in adults with mental illness. <i>Scientific Reports</i> , 2017, 7, 43174.	1.6	16
14	Further assessment of exomeâ€“wide UVR footprints in melanoma and their possible relevance. <i>Molecular Carcinogenesis</i> , 2017, 56, 1673-1679.	1.3	2
15	Clinical Applications of Stochastic Dynamic Models of the Brain, Part II: A Review. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 225-234.	1.1	13
16	Clinical Applications of Stochastic Dynamic Models of the Brain, Part I: A Primer. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2017, 2, 216-224.	1.1	23
17	Mapping how local perturbations influence systems-level brain dynamics. <i>NeuroImage</i> , 2017, 160, 97-112.	2.1	117
18	Consistency-based thresholding of the human connectome. <i>NeuroImage</i> , 2017, 145, 118-129.	2.1	157

#	ARTICLE	IF	CITATIONS
19	The contribution of geometry to the human connectome. <i>NeuroImage</i> , 2016, 124, 379-393.	2.1	181
20	Diversity improves performance in excitable networks. <i>PeerJ</i> , 2016, 4, e1912.	0.9	17
21	Early Detection of Preterm Intraventricular Hemorrhage From Clinical Electroencephalography. <i>Critical Care Medicine</i> , 2015, 43, 2219-2227.	0.4	33
22	Cortical burst dynamics predict clinical outcome early in extremely preterm infants. <i>Brain</i> , 2015, 138, 2206-2218.	3.7	90
23	A Multiscale "Working Brain" Model. <i>Springer Series in Computational Neuroscience</i> , 2015, , 107-140.	0.3	12
24	The heavy tail of the human brain. <i>Current Opinion in Neurobiology</i> , 2015, 31, 164-172.	2.0	62
25	Critical role for resource constraints in neural models. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 154.	1.2	24
26	Novel features of early burst suppression predict outcome after birth asphyxia. <i>Annals of Clinical and Translational Neurology</i> , 2014, 1, 209-214.	1.7	31
27	Scale-Free Bursting in Human Cortex following Hypoxia at Birth. <i>Journal of Neuroscience</i> , 2014, 34, 6557-6572.	1.7	53
28	Fixational eye movements during viewing of dynamic natural scenes. <i>Frontiers in Psychology</i> , 2013, 4, 797.	1.1	24
29	Critical Fluctuations in Cortical Models Near Instability. <i>Frontiers in Physiology</i> , 2012, 3, 331.	1.3	39
30	Corticothalamic dynamics: Structure of parameter space, spectra, instabilities, and reduced model. <i>Physical Review E</i> , 2012, 85, 011910.	0.8	34
31	Quantitative theory of driven nonlinear brain dynamics. <i>NeuroImage</i> , 2012, 62, 1947-1955.	2.1	66
32	A Canonical Model of Multistability and Scale-Invariance in Biological Systems. <i>PLoS Computational Biology</i> , 2012, 8, e1002634.	1.5	154
33	Quantitative modelling of sleep dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3840-3854.	1.6	37
34	Biophysical Mechanisms of Multistability in Resting-State Cortical Rhythms. <i>Journal of Neuroscience</i> , 2011, 31, 6353-6361.	1.7	252
35	Quantitative Modeling of Sleep Dynamics. , 2011, , 45-68.		3
36	Phase transitions in physiologically-based multiscale mean-field brain models. , 2010, , 179-201.		9

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37	Dynamics of epileptic seizures: Evolution, spreading, and suppression. Journal of Theoretical Biology, 2009, 257, 527-532.	0.8	53
38	Modeling absence seizure dynamics: Implications for basic mechanisms and measurement of thalamocortical and corticothalamic latencies. Journal of Theoretical Biology, 2008, 253, 189-201.	0.8	56
39	Automated characterization of multiple alpha peaks in multi-site electroencephalograms. Journal of Neuroscience Methods, 2008, 168, 396-411.	1.3	45
40	Modeling distributed axonal delays in mean-field brain dynamics. Physical Review E, 2008, 78, 051901.	0.8	29
41	Unified Modeling and Analysis of Primary Generalized Seizures. , 2008, , 387-402.		0
42	Spatiotemporal correlation functions in beam-driven plasmas with fluctuations. Physics of Plasmas, 2007, 14, 122111.	0.7	3
43	A Unifying Explanation of Primary Generalized Seizures Through Nonlinear Brain Modeling and Bifurcation Analysis. Cerebral Cortex, 2006, 16, 1296-1313.	1.6	414