James A Roberts

List of Publications by Year
in descending order

43 papers	2,534 citations	279798 23 h-index	289244 40 g-index
49 all docs	49 docs citations	49 times ranked	2645 citing authors

#	Article	IF	Citations
1	Risk of sustained SARS-CoV-2 transmission in Queensland, Australia. Scientific Reports, 2022, 12, 6309.	3.3	5
2	ADHD symptoms map onto noise-driven structureâ€"function decoupling between hub and peripheral brain regions. Molecular Psychiatry, 2021, 26, 4036-4045.	7.9	19
3	Stochastic synchronization of dynamics on the human connectome. NeuroImage, 2021, 229, 117738.	4.2	19
4	Automated detection of artefacts in neonatal EEG with residual neural networks. Computer Methods and Programs in Biomedicine, 2021, 208, 106194.	4.7	13
5	Manipulating the structure of natural scenes using wavelets to study the functional architecture of perceptual hierarchies in the brain. NeuroImage, 2020, 221, 117173.	4.2	10
6	Reliability and accuracy of EEG interpretation for estimating age in preterm infants. Annals of Clinical and Translational Neurology, 2020, 7, 1564-1573.	3.7	11
7	Automated cotâ€side tracking of functional brain age in preterm infants. Annals of Clinical and Translational Neurology, 2020, 7, 891-902.	3.7	33
8	Large-scale brain modes reorganize between infant sleep states and carry prognostic information for preterms. Nature Communications, 2019, 10, 2619.	12.8	65
9	Metastable brain waves. Nature Communications, 2019, 10, 1056.	12.8	170
10	Development of frontoparietal connectivity predicts longitudinal symptom changes in young people with autism spectrum disorder. Translational Psychiatry, 2019, 9, 86.	4.8	40
11	Synaptic assays: using biophysical models to infer neuronal dysfunction from non-invasive EEG. Brain, 2018, 141, 1583-1583.	7.6	3
12	Fragility and volatility of structural hubs in the human connectome. Nature Neuroscience, 2018, 21, 1107-1116.	14.8	93
13	Quantification of free-living activity patterns using accelerometry in adults with mental illness. Scientific Reports, 2017, 7, 43174.	3.3	16
14	Further assessment of exomeâ€wide UVR footprints in melanoma and their possible relevance. Molecular Carcinogenesis, 2017, 56, 1673-1679.	2.7	2
15	Clinical Applications of Stochastic Dynamic Models of the Brain, Part II: A Review. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 225-234.	1.5	13
16	Clinical Applications of Stochastic Dynamic Models of the Brain, Part I: A Primer. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2017, 2, 216-224.	1.5	23
17	Mapping how local perturbations influence systems-level brain dynamics. NeuroImage, 2017, 160, 97-112.	4.2	117
18	Consistency-based thresholding of the human connectome. NeuroImage, 2017, 145, 118-129.	4.2	157

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19	The contribution of geometry to the human connectome. NeuroImage, 2016, 124, 379-393.	4.2	181
20	Diversity improves performance in excitable networks. PeerJ, 2016, 4, e1912.	2.0	17
21	Early Detection of Preterm Intraventricular Hemorrhage From Clinical Electroencephalography. Critical Care Medicine, 2015, 43, 2219-2227.	0.9	33
22	Cortical burst dynamics predict clinical outcome early in extremely preterm infants. Brain, 2015, 138, 2206-2218.	7.6	90
23	A Multiscale â€œWorking Brainâ€•Model. Springer Series in Computational Neuroscience, 2015, , 107-140.	0.3	12
24	The heavy tail of the human brain. Current Opinion in Neurobiology, 2015, 31, 164-172.	4.2	62
25	Critical role for resource constraints in neural models. Frontiers in Systems Neuroscience, 2014, 8, 154.	2.5	24
26	Novel features of early burst suppression predict outcome after birth asphyxia. Annals of Clinical and Translational Neurology, 2014, 1, 209-214.	3.7	31
27	Scale-Free Bursting in Human Cortex following Hypoxia at Birth. Journal of Neuroscience, 2014, 34, 6557-6572.	3.6	53
28	Fixational eye movements during viewing of dynamic natural scenes. Frontiers in Psychology, 2013, 4, 797.	2.1	24
29	Critical Fluctuations in Cortical Models Near Instability. Frontiers in Physiology, 2012, 3, 331.	2.8	39
30	Corticothalamic dynamics: Structure of parameter space, spectra, instabilities, and reduced model. Physical Review E, 2012, 85, 011910.	2.1	34
31	Quantitative theory of driven nonlinear brain dynamics. NeuroImage, 2012, 62, 1947-1955.	4.2	66
32	A Canonical Model of Multistability and Scale-Invariance in Biological Systems. PLoS Computational Biology, 2012, 8, e1002634.	3.2	154
33	Quantitative modelling of sleep dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3840-3854.	3.4	37
34	Biophysical Mechanisms of Multistability in Resting-State Cortical Rhythms. Journal of Neuroscience, 2011, 31, 6353-6361.	3.6	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.	1.7	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.	1.7	56
39	Automated characterization of multiple alpha peaks in multi-site electroencephalograms. Journal of Neuroscience Methods, 2008, 168, 396-411.	2.5	45
40	Modeling distributed axonal delays in mean-field brain dynamics. Physical Review E, 2008, 78, 051901.	2.1	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.	1.9	3
43	A Unifying Explanation of Primary Generalized Seizures Through Nonlinear Brain Modeling and Bifurcation Analysis. Cerebral Cortex, 2006, 16, 1296-1313.	2.9	414