

Ben D Fulcher

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3833772/publications.pdf>

Version: 2024-02-01

59
papers

4,943
citations

147726

31
h-index

175177

52
g-index

97
all docs

97
docs citations

97
times ranked

5654
citing authors

#	ARTICLE	IF	CITATIONS
1	An evaluation of the efficacy, reliability, and sensitivity of motion correction strategies for resting-state functional MRI. <i>NeuroImage</i> , 2018, 171, 415-436.	2.1	630
2	A practical guide to linking brain-wide gene expression and neuroimaging data. <i>NeuroImage</i> , 2019, 189, 353-367.	2.1	422
3	Highly comparative time-series analysis: the empirical structure of time series and their methods. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130048.	1.5	270
4	Bridging the Gap between Connectome and Transcriptome. <i>Trends in Cognitive Sciences</i> , 2019, 23, 34-50.	4.0	245
5	Highly Comparative Feature-Based Time-Series Classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014, 26, 3026-3037.	4.0	225
6	A transcriptional signature of hub connectivity in the mouse connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1435-1440.	3.3	197
7	hctsa : A Computational Framework for Automated Time-Series Phenotyping Using Massive Feature Extraction. <i>Cell Systems</i> , 2017, 5, 527-531.e3.	2.9	197
8	Consistency and differences between centrality measures across distinct classes of networks. <i>PLoS ONE</i> , 2019, 14, e0220061.	1.1	193
9	Multimodal gradients across mouse cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4689-4695.	3.3	186
10	catch22: CAnonical Time-series CHaracteristics. <i>Data Mining and Knowledge Discovery</i> , 2019, 33, 1821-1852.	2.4	166
11	Standardizing workflows in imaging transcriptomics with the abagen toolbox. <i>ELife</i> , 2021, 10, .	2.8	140
12	Developmental Changes in Brain Network Hub Connectivity in Late Adolescence. <i>Journal of Neuroscience</i> , 2015, 35, 9078-9087.	1.7	134
13	Responders to rTMS for depression show increased fronto-midline theta and theta connectivity compared to non-responders. <i>Brain Stimulation</i> , 2018, 11, 190-203.	0.7	133
14	Topographic gradients of intrinsic dynamics across neocortex. <i>ELife</i> , 2020, 9, .	2.8	99
15	Identifying and removing widespread signal deflections from fMRI data: Rethinking the global signal regression problem. <i>NeuroImage</i> , 2020, 212, 116614.	2.1	95
16	Characterizing soundscapes across diverse ecosystems using a universal acoustic feature set. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17049-17055.	3.3	93
17	Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , 2021, 12, 4237.	5.8	92
18	Overcoming false-positive gene-category enrichment in the analysis of spatially resolved transcriptomic brain atlas data. <i>Nature Communications</i> , 2021, 12, 2669.	5.8	74

#	ARTICLE	IF	CITATIONS
19	2015 Brainhack Proceedings. GigaScience, 2016, 5, 1-26.	3.3	72
20	Sleep patterns predictive of daytime challenging behavior in individuals with low-functioning autism. Autism Research, 2018, 11, 391-403.	2.1	72
21	Hardness analysis of cubic metal mononitrides from first principles. Physical Review B, 2012, 85, .	1.1	70
22	Predicting Depression From Language-Based Emotion Dynamics: Longitudinal Analysis of Facebook and Twitter Status Updates. Journal of Medical Internet Research, 2018, 20, e168.	2.1	70
23	Structural connectome topology relates to regional BOLD signal dynamics in the mouse brain. Chaos, 2017, 27, 047405.	1.0	68
24	Differentiating responders and non-responders to rTMS treatment for depression after one week using resting EEG connectivity measures. Journal of Affective Disorders, 2019, 242, 68-79.	2.0	65
25	Core and matrix thalamic sub-populations relate to spatio-temporal cortical connectivity gradients. NeuroImage, 2020, 222, 117224.	2.1	58
26	Hub connectivity, neuronal diversity, and gene expression in the Caenorhabditis elegans connectome. PLoS Computational Biology, 2018, 14, e1005989.	1.5	56
27	Feature-Based Time-Series Analysis. , 2018, , 87-116.		55
28	Incorporation of caffeine into a quantitative model of fatigue and sleep. Journal of Theoretical Biology, 2011, 273, 44-54.	0.8	47
29	Biophysical modeling of neural plasticity induced by transcranial magnetic stimulation. Clinical Neurophysiology, 2018, 129, 1230-1241.	0.7	42
30	Cortical Excitation:Inhibition Imbalance Causes Abnormal Brain Network Dynamics as Observed in Neurodevelopmental Disorders. Cerebral Cortex, 2020, 30, 4922-4937.	1.6	41
31	A Physiologically Based Model of Orexinergic Stabilization of Sleep and Wake. PLoS ONE, 2014, 9, e91982.	1.1	39
32	Timescales of spontaneous fMRI fluctuations relate to structural connectivity in the brain. Network Neuroscience, 2020, 4, 788-806.	1.4	38
33	Modeling the impact of impulsive stimuli on sleep-wake dynamics. Physical Review E, 2008, 78, 051920.	0.8	37
34	Quantitative modelling of sleep dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3840-3854.	1.6	37
35	Modeling spatial, developmental, physiological, and topological constraints on human brain connectivity. Science Advances, 2022, 8, .	4.7	37
36	Transcriptional signatures of connectomic subregions of the human striatum. Genes, Brain and Behavior, 2017, 16, 647-663.	1.1	36

#	ARTICLE	IF	CITATIONS
37	Quantitative physiologically based modeling of subjective fatigue during sleep deprivation. <i>Journal of Theoretical Biology</i> , 2010, 264, 407-419.	0.8	34
38	Where the genome meets the connectome: Understanding how genes shape human brain connectivity. <i>NeuroImage</i> , 2021, 244, 118570.	2.1	34
39	Mammalian Rest/Activity Patterns Explained by Physiologically Based Modeling. <i>PLoS Computational Biology</i> , 2013, 9, e1003213.	1.5	28
40	Behaviorally-determined sleep phenotypes are robustly associated with adaptive functioning in individuals with low functioning autism. <i>Scientific Reports</i> , 2017, 7, 14228.	1.6	23
41	Imaging Transcriptomics of Brain Disorders. <i>Biological Psychiatry Global Open Science</i> , 2022, 2, 319-331.	1.0	22
42	Uncovering the Transcriptional Correlates of Hub Connectivity in Neural Networks. <i>Frontiers in Neural Circuits</i> , 2019, 13, 47.	1.4	20
43	Scaling of gene transcriptional gradients with brain size across mouse development. <i>NeuroImage</i> , 2021, 224, 117395.	2.1	16
44	Assessing the significance of directed and multivariate measures of linear dependence between time series. <i>Physical Review Research</i> , 2021, 3, .	1.3	15
45	Beyond traditional sleep scoring: Massive feature extraction and data-driven clustering of sleep time series. <i>Sleep Medicine</i> , 2022, 98, 39-52.	0.8	15
46	Highly comparative fetal heart rate analysis. , 2012, 2012, 3135-8.		14
47	A Multiscale "Working Brain" Model. <i>Springer Series in Computational Neuroscience</i> , 2015, , 107-140.	0.3	12
48	On the intersection between data quality and dynamical modelling of large-scale fMRI signals. <i>NeuroImage</i> , 2022, 256, 119051.	2.1	11
49	Discovering Conserved Properties of Brain Organization Through Multimodal Integration and Interspecies Comparison. <i>Journal of Experimental Neuroscience</i> , 2019, 13, 117906951986204.	2.3	10
50	Classifying Kepler light curves for 12% A and F stars using supervised feature-based machine learning. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2793-2804.	1.6	10
51	A self-organizing, living library of time-series data. <i>Scientific Data</i> , 2020, 7, 213.	2.4	7
52	An Empirical Evaluation of Time-Series Feature Sets. , 2021, , .		7
53	Finding binaries from phase modulation of pulsating stars with Kepler " VI. Orbits for 10 new binaries with mischaracterized primaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5382-5388.	1.6	6
54	Extracting Dynamical Understanding From Neural-Mass Models of Mouse Cortex. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, 847336.	1.2	4

#	ARTICLE	IF	CITATIONS
55	Genetic Influences on Brain Network Hubs. <i>Biological Psychiatry</i> , 2020, 87, S86-S87.	0.7	3
56	Quantitative Modeling of Sleep Dynamics. , 2011, , 45-68.		3
57	Efficient peripheral nerve firing characterisation through massive feature extraction. , 2019, , .		1
58	Navigating a Complex Landscape: Using Transcriptomics to Parcellate the Human Cortex. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 3-4.	1.1	1
59	Genetic properties of hub connectivity in the human brain. <i>IBRO Reports</i> , 2019, 6, S535.	0.3	0