

# Ben D Fulcher

## List of Publications by Year in descending order

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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	Imaging Transcriptomics of Brain Disorders. <i>Biological Psychiatry Global Open Science</i> , 2022, 2, 319-331.	1.0	22
2	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
3	On the intersection between data quality and dynamical modelling of large-scale fMRI signals. <i>NeuroImage</i> , 2022, 256, 119051.	2.1	11
4	Extracting Dynamical Understanding From Neural-Mass Models of Mouse Cortex. <i>Frontiers in Computational Neuroscience</i> , 2022, 16, 847336.	1.2	4
5	Classifying <i>Kepler</i> 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
6	Modeling spatial, developmental, physiological, and topological constraints on human brain connectivity. <i>Science Advances</i> , 2022, 8, .	4.7	37
7	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
8	Scaling of gene transcriptional gradients with brain size across mouse development. <i>NeuroImage</i> , 2021, 224, 117395.	2.1	16
9	Assessing the significance of directed and multivariate measures of linear dependence between time series. <i>Physical Review Research</i> , 2021, 3, .	1.3	15
10	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
11	Genetic influences on hub connectivity of the human connectome. <i>Nature Communications</i> , 2021, 12, 4237.	5.8	92
12	Where the genome meets the connectome: Understanding how genes shape human brain connectivity. <i>NeuroImage</i> , 2021, 244, 118570.	2.1	34
13	Standardizing workflows in imaging transcriptomics with the abagen toolbox. <i>ELife</i> , 2021, 10, .	2.8	140
14	An Empirical Evaluation of Time-Series Feature Sets. , 2021, , .		7
15	Timescales of spontaneous fMRI fluctuations relate to structural connectivity in the brain. <i>Network Neuroscience</i> , 2020, 4, 788-806.	1.4	38
16	Core and matrix thalamic sub-populations relate to spatio-temporal cortical connectivity gradients. <i>NeuroImage</i> , 2020, 222, 117224.	2.1	58
17	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
18	Genetic Influences on Brain Network Hubs. <i>Biological Psychiatry</i> , 2020, 87, S86-S87.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Characterizing soundscapes across diverse ecosystems using a universal acoustic feature set. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17049-17055.	3.3	93
20	A self-organizing, living library of time-series data. Scientific Data, 2020, 7, 213.	2.4	7
21	Identifying and removing widespread signal deflections from fMRI data: Rethinking the global signal regression problem. NeuroImage, 2020, 212, 116614.	2.1	95
22	Cortical Excitation:Inhibition Imbalance Causes Abnormal Brain Network Dynamics as Observed in Neurodevelopmental Disorders. Cerebral Cortex, 2020, 30, 4922-4937.	1.6	41
23	Topographic gradients of intrinsic dynamics across neocortex. ELife, 2020, 9, .	2.8	99
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	Uncovering the Transcriptional Correlates of Hub Connectivity in Neural Networks. Frontiers in Neural Circuits, 2019, 13, 47.	1.4	20
26	Discovering Conserved Properties of Brain Organization Through Multimodal Integration and Interspecies Comparison. Journal of Experimental Neuroscience, 2019, 13, 117906951986204.	2.3	10
27	catch22: CAnonical Time-series CHaracteristics. Data Mining and Knowledge Discovery, 2019, 33, 1821-1852.	2.4	166
28	Genetic properties of hub connectivity in the human brain. IBRO Reports, 2019, 6, S535.	0.3	0
29	Consistency and differences between centrality measures across distinct classes of networks. PLoS ONE, 2019, 14, e0220061.	1.1	193
30	Multimodal gradients across mouse cortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4689-4695.	3.3	186
31	Efficient peripheral nerve firing characterisation through massive feature extraction. , 2019, , .		1
32	Bridging the Gap between Connectome and Transcriptome. Trends in Cognitive Sciences, 2019, 23, 34-50.	4.0	245
33	A practical guide to linking brain-wide gene expression and neuroimaging data. NeuroImage, 2019, 189, 353-367.	2.1	422
34	Biophysical modeling of neural plasticity induced by transcranial magnetic stimulation. Clinical Neurophysiology, 2018, 129, 1230-1241.	0.7	42
35	An evaluation of the efficacy, reliability, and sensitivity of motion correction strategies for resting-state functional MRI. NeuroImage, 2018, 171, 415-436.	2.1	630
36	Responders to rTMS for depression show increased fronto-midline theta and theta connectivity compared to non-responders. Brain Stimulation, 2018, 11, 190-203.	0.7	133

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37	Sleep patterns predictive of daytime challenging behavior in individuals with low-functioning autism. <i>Autism Research</i> , 2018, 11, 391-403.	2.1	72
38	Hub connectivity, neuronal diversity, and gene expression in the <i>Caenorhabditis elegans</i> connectome. <i>PLoS Computational Biology</i> , 2018, 14, e1005989.	1.5	56
39	Feature-Based Time-Series Analysis. , 2018, , 87-116.		55
40	Predicting Depression From Language-Based Emotion Dynamics: Longitudinal Analysis of Facebook and Twitter Status Updates. <i>Journal of Medical Internet Research</i> , 2018, 20, e168.	2.1	70
41	Structural connectome topology relates to regional BOLD signal dynamics in the mouse brain. <i>Chaos</i> , 2017, 27, 047405.	1.0	68
42	Transcriptional signatures of connectomic subregions of the human striatum. <i>Genes, Brain and Behavior</i> , 2017, 16, 647-663.	1.1	36
43	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
44	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
45	2015 Brainhack Proceedings. <i>GigaScience</i> , 2016, 5, 1-26.	3.3	72
46	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
47	A Multiscale "Working Brain" Model. <i>Springer Series in Computational Neuroscience</i> , 2015, , 107-140.	0.3	12
48	Developmental Changes in Brain Network Hub Connectivity in Late Adolescence. <i>Journal of Neuroscience</i> , 2015, 35, 9078-9087.	1.7	134
49	Highly Comparative Feature-Based Time-Series Classification. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014, 26, 3026-3037.	4.0	225
50	A Physiologically Based Model of Orexinergic Stabilization of Sleep and Wake. <i>PLoS ONE</i> , 2014, 9, e91982.	1.1	39
51	Mammalian Rest/Activity Patterns Explained by Physiologically Based Modeling. <i>PLoS Computational Biology</i> , 2013, 9, e1003213.	1.5	28
52	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
53	Highly comparative fetal heart rate analysis. , 2012, 2012, 3135-8.		14
54	Hardness analysis of cubic metal mononitrides from first principles. <i>Physical Review B</i> , 2012, 85, .	1.1	70

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55	Quantitative modelling of sleep dynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3840-3854.	1.6	37
56	Incorporation of caffeine into a quantitative model of fatigue and sleep. Journal of Theoretical Biology, 2011, 273, 44-54.	0.8	47
57	Quantitative Modeling of Sleep Dynamics. , 2011, , 45-68.		3
58	Quantitative physiologically based modeling of subjective fatigue during sleep deprivation. Journal of Theoretical Biology, 2010, 264, 407-419.	0.8	34
59	Modeling the impact of impulsive stimuli on sleep-wake dynamics. Physical Review E, 2008, 78, 051920.	0.8	37