Bratislav Misic

List of Publications by Year
in descending order

89 papers	7,202 citations	101384 36 h-index	91712 69 g-index
142 all docs	142 docs citations	142 times ranked	6701 citing authors

#	Article	IF	Citations
1	Communication dynamics in complex brain networks. Nature Reviews Neuroscience, 2018, 19, 17-33.	4.9	593
2	Linking Structure and Function in Macroscale Brain Networks. Trends in Cognitive Sciences, 2020, 24, 302-315.	4.0	477
3	Gradients of structure–function tethering across neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21219-21227.	3.3	345
4	Microstructural and functional gradients are increasingly dissociated in transmodal cortices. PLoS Biology, 2019, 17, e3000284.	2.6	332
5	Cooperative and Competitive Spreading Dynamics on the Human Connectome. Neuron, 2015, 86, 1518-1529.	3.8	309
6	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. Nature Communications, 2020, 11, 3406.	5.8	300
7	BrainSpace: a toolbox for the analysis of macroscale gradients in neuroimaging and connectomics datasets. Communications Biology, 2020, 3, 103.	2.0	285
8	Network-Level Structure-Function Relationships in Human Neocortex. Cerebral Cortex, 2016, 26, 3285-3296.	1.6	260
9	Generative models of the human connectome. NeuroImage, 2016, 124, 1054-1064.	2.1	259
10	Multivariate Statistical Analyses for Neuroimaging Data. Annual Review of Psychology, 2013, 64, 499-525.	9.9	214
11	From regions to connections and networks: new bridges between brain and behavior. Current Opinion in Neurobiology, 2016, 40, 1-7.	2.0	212
12	Comparing spatial null models for brain maps. NeuroImage, 2021, 236, 118052.	2.1	160
13	Standardizing workflows in imaging transcriptomics with the abagen toolbox. ELife, 2021, 10, .	2.8	140
14	Brain Noise Is Task Dependent and Region Specific. Journal of Neurophysiology, 2010, 104, 2667-2676.	0.9	135
15	Integration and segregation of large-scale brain networks during short-term task automatization. Nature Communications, 2016, 7, 13217.	5.8	127
16	Distance-dependent consensus thresholds for generating group-representative structural brain networks. Network Neuroscience, 2019, 3, 475-496.	1.4	119
17	Stable long-range interhemispheric coordination is supported by direct anatomical projections. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6473-6478.	3.3	110
18	Communication Efficiency and Congestion of Signal Traffic in Large-Scale Brain Networks. PLoS Computational Biology, 2014, 10, e1003427.	1.5	107

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19	Neurobehavioral correlates of obesity are largely heritable. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9312-9317.	3.3	105
20	Topographic gradients of intrinsic dynamics across neocortex. ELife, 2020, 9, .	2.8	99
21	A Network Convergence Zone in the Hippocampus. PLoS Computational Biology, 2014, 10, e1003982.	1.5	89
22	Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. Biological Psychiatry, 2020, 87, 727-735.	0.7	87
23	Anatomical and functional organization of the human substantia nigra and its connections. ELife, 2017, 6, .	2.8	86
24	Mapping gene transcription and neurocognition across human neocortex. Nature Human Behaviour, 2021, 5, 1240-1250.	6.2	86
25	Dopamine Signaling Modulates the Stability and Integration of Intrinsic Brain Networks. Cerebral Cortex, 2019, 29, 397-409.	1.6	83
26	Does resting-state connectivity reflect depressive rumination? A tale of two analyses. NeuroImage, 2014, 103, 267-279.	2.1	82
27	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. PLoS Biology, 2019, 17, e3000495.	2.6	79
28	Path ensembles and a tradeoff between communication efficiency and resilience in the human connectome. Brain Structure and Function, 2017, 222, 603-618.	1.2	77
29	Functional embedding predicts the variability of neural activity. Frontiers in Systems Neuroscience, 2011, 5, 90.	1.2	73
30	Null models in network neuroscience. Nature Reviews Neuroscience, 2022, 23, 493-504.	4.9	69
31	A clinical-anatomical signature of Parkinson's disease identified with partial least squares and magnetic resonance imaging. NeuroImage, 2019, 190, 69-78.	2.1	66
32	Loneliness and meaning in life are reflected in the intrinsic network architecture of the brain. Social Cognitive and Affective Neuroscience, 2019, 14, 423-433.	1.5	61
33	Local structure-function relationships in human brain networks across the lifespan. Nature Communications, 2022, 13, 2053.	5.8	58
34	Signal propagation via cortical hierarchies. Network Neuroscience, 2020, 4, 1072-1090.	1.4	54
35	Signal diffusion along connectome gradients and inter-hub routing differentially contribute to dynamic human brain function. NeuroImage, 2021, 224, 117429.	2.1	54
36	Learning function from structure in neuromorphic networks. Nature Machine Intelligence, 2021, 3, 771-786.	8.3	54

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37	Network-Based Asymmetry of the Human Auditory System. Cerebral Cortex, 2018, 28, 2655-2664.	1.6	51
38	Microstructure-Informed Connectomics: Enriching Large-Scale Descriptions of Healthy and Diseased Brains. Brain Connectivity, 2019, 9, 113-127.	0.8	50
39	Mapping Language Networks Using the Structural and Dynamic Brain Connectomes. ENeuro, 2017, 4, ENEURO.0204-17.2017.	0.9	45
40	The Functional Connectivity Landscape of the Human Brain. PLoS ONE, 2014, 9, e111007.	1.1	44
41	Post-Traumatic Stress Constrains the Dynamic Repertoire of Neural Activity. Journal of Neuroscience, 2016, 36, 419-431.	1.7	42
42	Brief segments of neurophysiological activity enable individual differentiation. Nature Communications, 2021, 12, 5713.	5.8	42
43	Multiscale communication in cortico-cortical networks. NeuroImage, 2021, 243, 118546.	2.1	42
44	Empirical and theoretical aspects of generation and transfer of information in a neuromagnetic source network. Frontiers in Systems Neuroscience, 2011, 5, 96.	1.2	41
45	Coordinated Information Generation and Mental Flexibility: Large-Scale Network Disruption in Children with Autism. Cerebral Cortex, 2015, 25, 2815-2827.	1.6	38
46	Early or Late Gestational Exposure to Maternal Immune Activation Alters Neurodevelopmental Trajectories in Mice: An Integrated Neuroimaging, Behavioral, and Transcriptional Study. Biological Psychiatry, 2021, 90, 328-341.	0.7	38
47	Differentially targeted seeding reveals unique pathological alpha-synuclein propagation patterns. Brain, 2022, 145, 1743-1756.	3.7	34
48	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. GigaScience, 2021, 10, .	3.3	32
49	Age differences in the functional architecture of the human brain. Cerebral Cortex, 2022, 33, 114-134.	1.6	31
50	Time-resolved structure-function coupling in brain networks. Communications Biology, 2022, 5, .	2.0	31
51	Network structure and transcriptomic vulnerability shape atrophy in frontotemporal dementia. Brain, 2023, 146, 321-336.	3.7	30
52	Optimized connectome architecture for sensory-motor integration. Network Neuroscience, 2017, 1, 415-430.	1.4	29
53	A Prodromal Brain–Clinical Pattern of Cognition in Synucleinopathies. Annals of Neurology, 2021, 89, 341-357.	2.8	28
54	Inter-regional BOLD signal variability is an organizational feature of functional brain networks. NeuroImage, 2021, 237, 118149.	2.1	25

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55	Multimodal phenotypic axes of Parkinson's disease. Npj Parkinson's Disease, 2021, 7, 6.	2.5	25
56	Latent Clinical-Anatomical Dimensions of Schizophrenia. Schizophrenia Bulletin, 2020, 46, 1426-1438.	2.3	24
57	Using multivariate data reduction to predict postsurgery memory decline in patients with mesial temporal lobe epilepsy. Epilepsy and Behavior, 2014, 31, 220-227.	0.9	22
58	Brain atrophy progression in Parkinson's disease is shaped by connectivity and local vulnerability. Brain Communications, 2021, 3, fcab269.	1.5	22
59	Obesity has limited behavioural overlap with addiction and psychiatric phenotypes. Nature Human Behaviour, 2020, 4, 27-35.	6.2	21
60	Structural Connectivity Gradients of the Temporal Lobe Serve as Multiscale Axes of Brain Organization and Cortical Evolution. Cerebral Cortex, 2021, 31, 5151-5164.	1.6	21
61	Dynamic functional connectivity shapes individual differences in associative learning. Human Brain Mapping, 2016, 37, 3911-3928.	1.9	20
62	Confounding Effects of Phase Delays on Causality Estimation. PLoS ONE, 2013, 8, e53588.	1.1	18
63	Brain connectivity tracks effects of chemotherapy separately from behavioral measures. NeuroImage: Clinical, 2019, 21, 101654.	1.4	18
64	Adolescent development of multiscale structural wiring and functional interactions in the human connectome. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	18
65	The R1-weighted connectome: complementing brain networks with a myelin-sensitive measure. Network Neuroscience, 2021, 5, 358-372.	1.4	17
66	Tracking mood fluctuations with functional network patterns. Social Cognitive and Affective Neuroscience, 2019, 14, 47-57.	1.5	16
67	Exploring Age-Related Changes in Dynamical Non-Stationarity in Electroencephalographic Signals during Early Adolescence. PLoS ONE, 2013, 8, e57217.	1.1	13
68	Brain Network Activity During Face Perception: The Impact of Perceptual Familiarity and Individual Differences in Childhood Experience. Cerebral Cortex, 2017, 27, 4326-4338.	1.6	13
69	Brain atrophy in prodromal synucleinopathy is shaped by structural connectivity and gene expression. Brain, 2022, 145, 3162-3178.	3.7	13
70	Network topology of the marmoset connectome. Network Neuroscience, 2020, 4, 1181-1196.	1.4	12
71	A Partial Least-Squares Analysis of Health-Related Quality-of-Life Outcomes After Aneurysmal Subarachnoid Hemorrhage. Neurosurgery, 2015, 77, 908-915.	0.6	11
72	Mesolimbic connectivity signatures of impulsivity and BMI in early adolescence. Appetite, 2019, 132, 25-36.	1.8	11

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73	[MEG]PLS: A pipeline for MEG data analysis and partial least squares statistics. NeuroImage, 2016, 124, 181-193.	2.1	10
74	Editorial: Network Communication in the Brain. Network Neuroscience, 2020, 4, 976-979.	1.4	10
75	Propofol sedation-induced alterations in brain connectivity reflect parvalbumin interneurone distribution in human cerebral cortex. British Journal of Anaesthesia, 2021, 126, 835-844.	1.5	10
76	The Myelinâ€Weighted Connectome in Parkinson's Disease. Movement Disorders, 2022, 37, 724-733.	2.2	10
77	A Riemannian approach to predicting brain function from the structural connectome. NeuroImage, 2022, 257, 119299.	2.1	10
78	Extracting Message Inter-Departure Time Distributions from the Human Electroencephalogram. PLoS Computational Biology, 2011, 7, e1002065.	1.5	5
79	Benchmarking functional connectivity by the structure and geometry of the human brain. Network Neuroscience, 2022, 6, 937-949.	1.4	5
80	Numerical uncertainty in analytical pipelines lead to impactful variability in brain networks. PLoS ONE, 2021, 16, e0250755.	1.1	4
81	Metabolic and functional connectivity provide unique and complementary insights into cognition-connectome relationships. Cerebral Cortex, 2023, 33, 1476-1488.	1.6	4
82	Pattern learning reveals brain asymmetry to be linked to socioeconomic status. Cerebral Cortex Communications, 2022, 3, .	0.7	3
83	Developmental Trajectory of Face Processing Revealed by Integrative Dynamics. Journal of Cognitive Neuroscience, 2014, 26, 2416-2430.	1.1	2
84	Distinct and Dissociable EEG Networks Are Associated With Recovery of Cognitive Function Following Anesthesia-Induced Unconsciousness. Frontiers in Human Neuroscience, 2021, 15, 706693.	1.0	2
85	Asymmetric influence measure for high dimensional regression. Communications in Statistics - Theory and Methods, 2020, , 1-27.	0.6	1
86	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0
87	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0
88	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0
89	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0