

Bratislav Misic

List of Publications by Year in descending order

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Version: 2024-02-01

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	Metabolic and functional connectivity provide unique and complementary insights into cognition-connectome relationships. <i>Cerebral Cortex</i> , 2023, 33, 1476-1488.	1.6	4
2	Network structure and transcriptomic vulnerability shape atrophy in frontotemporal dementia. <i>Brain</i> , 2023, 146, 321-336.	3.7	30
3	Benchmarking functional connectivity by the structure and geometry of the human brain. <i>Network Neuroscience</i> , 2022, 6, 937-949.	1.4	5
4	Age differences in the functional architecture of the human brain. <i>Cerebral Cortex</i> , 2022, 33, 114-134.	1.6	31
5	Differentially targeted seeding reveals unique pathological alpha-synuclein propagation patterns. <i>Brain</i> , 2022, 145, 1743-1756.	3.7	34
6	The Myelin-Weighted Connectome in Parkinson's Disease. <i>Movement Disorders</i> , 2022, 37, 724-733.	2.2	10
7	Local structure-function relationships in human brain networks across the lifespan. <i>Nature Communications</i> , 2022, 13, 2053.	5.8	58
8	Brain atrophy in prodromal synucleinopathy is shaped by structural connectivity and gene expression. <i>Brain</i> , 2022, 145, 3162-3178.	3.7	13
9	Pattern learning reveals brain asymmetry to be linked to socioeconomic status. <i>Cerebral Cortex Communications</i> , 2022, 3, .	0.7	3
10	Null models in network neuroscience. <i>Nature Reviews Neuroscience</i> , 2022, 23, 493-504.	4.9	69
11	Time-resolved structure-function coupling in brain networks. <i>Communications Biology</i> , 2022, 5, .	2.0	31
12	A Riemannian approach to predicting brain function from the structural connectome. <i>NeuroImage</i> , 2022, 257, 119299.	2.1	10
13	Adolescent development of multiscale structural wiring and functional interactions in the human connectome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	18
14	Signal diffusion along connectome gradients and inter-hub routing differentially contribute to dynamic human brain function. <i>NeuroImage</i> , 2021, 224, 117429.	2.1	54
15	A Prodromal Brain-Clinical Pattern of Cognition in Synucleinopathies. <i>Annals of Neurology</i> , 2021, 89, 341-357.	2.8	28
16	Understanding the impact of preprocessing pipelines on neuroimaging cortical surface analyses. <i>GigaScience</i> , 2021, 10, .	3.3	32
17	Mapping gene transcription and neurocognition across human neocortex. <i>Nature Human Behaviour</i> , 2021, 5, 1240-1250.	6.2	86
18	Propofol sedation-induced alterations in brain connectivity reflect parvalbumin interneurone distribution in human cerebral cortex. <i>British Journal of Anaesthesia</i> , 2021, 126, 835-844.	1.5	10

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19	Structural Connectivity Gradients of the Temporal Lobe Serve as Multiscale Axes of Brain Organization and Cortical Evolution. <i>Cerebral Cortex</i> , 2021, 31, 5151-5164.	1.6	21
20	Inter-regional BOLD signal variability is an organizational feature of functional brain networks. <i>NeuroImage</i> , 2021, 237, 118149.	2.1	25
21	Comparing spatial null models for brain maps. <i>NeuroImage</i> , 2021, 236, 118052.	2.1	160
22	Learning function from structure in neuromorphic networks. <i>Nature Machine Intelligence</i> , 2021, 3, 771-786.	8.3	54
23	Distinct and Dissociable EEG Networks Are Associated With Recovery of Cognitive Function Following Anesthesia-Induced Unconsciousness. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 706693.	1.0	2
24	Brief segments of neurophysiological activity enable individual differentiation. <i>Nature Communications</i> , 2021, 12, 5713.	5.8	42
25	Early or Late Gestational Exposure to Maternal Immune Activation Alters Neurodevelopmental Trajectories in Mice: An Integrated Neuroimaging, Behavioral, and Transcriptional Study. <i>Biological Psychiatry</i> , 2021, 90, 328-341.	0.7	38
26	Multiscale communication in cortico-cortical networks. <i>NeuroImage</i> , 2021, 243, 118546.	2.1	42
27	The R1-weighted connectome: complementing brain networks with a myelin-sensitive measure. <i>Network Neuroscience</i> , 2021, 5, 358-372.	1.4	17
28	Multimodal phenotypic axes of Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2021, 7, 6.	2.5	25
29	Numerical uncertainty in analytical pipelines lead to impactful variability in brain networks. <i>PLoS ONE</i> , 2021, 16, e0250755.	1.1	4
30	Brain atrophy progression in Parkinson's disease is shaped by connectivity and local vulnerability. <i>Brain Communications</i> , 2021, 3, fcab269.	1.5	22
31	Standardizing workflows in imaging transcriptomics with the abagen toolbox. <i>ELife</i> , 2021, 10, .	2.8	140
32	Spatial Patterning of Tissue Volume Loss in Schizophrenia Reflects Brain Network Architecture. <i>Biological Psychiatry</i> , 2020, 87, 727-735.	0.7	87
33	Obesity has limited behavioural overlap with addiction and psychiatric phenotypes. <i>Nature Human Behaviour</i> , 2020, 4, 27-35.	6.2	21
34	Editorial: Network Communication in the Brain. <i>Network Neuroscience</i> , 2020, 4, 976-979.	1.4	10
35	Latent Clinical-Anatomical Dimensions of Schizophrenia. <i>Schizophrenia Bulletin</i> , 2020, 46, 1426-1438.	2.3	24
36	Network topology of the marmoset connectome. <i>Network Neuroscience</i> , 2020, 4, 1181-1196.	1.4	12

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37	Asymmetric influence measure for high dimensional regression. Communications in Statistics - Theory and Methods, 2020, , 1-27.	0.6	1
38	Signal propagation via cortical hierarchies. Network Neuroscience, 2020, 4, 1072-1090.	1.4	54
39	BrainSpace: a toolbox for the analysis of macroscale gradients in neuroimaging and connectomics datasets. Communications Biology, 2020, 3, 103.	2.0	285
40	Single-cell RNA-seq reveals that glioblastoma recapitulates a normal neurodevelopmental hierarchy. Nature Communications, 2020, 11, 3406.	5.8	300
41	Linking Structure and Function in Macroscale Brain Networks. Trends in Cognitive Sciences, 2020, 24, 302-315.	4.0	477
42	Topographic gradients of intrinsic dynamics across neocortex. ELife, 2020, 9, .	2.8	99
43	Microstructure-Informed Connectomics: Enriching Large-Scale Descriptions of Healthy and Diseased Brains. Brain Connectivity, 2019, 9, 113-127.	0.8	50
44	Microstructural and functional gradients are increasingly dissociated in transmodal cortices. PLoS Biology, 2019, 17, e3000284.	2.6	332
45	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
46	Distance-dependent consensus thresholds for generating group-representative structural brain networks. Network Neuroscience, 2019, 3, 475-496.	1.4	119
47	Gradients of structureâ€“function tethering across neocortex. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21219-21227.	3.3	345
48	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. PLoS Biology, 2019, 17, e3000495.	2.6	79
49	Dopamine Signaling Modulates the Stability and Integration of Intrinsic Brain Networks. Cerebral Cortex, 2019, 29, 397-409.	1.6	83
50	Brain connectivity tracks effects of chemotherapy separately from behavioral measures. NeuroImage: Clinical, 2019, 21, 101654.	1.4	18
51	Tracking mood fluctuations with functional network patterns. Social Cognitive and Affective Neuroscience, 2019, 14, 47-57.	1.5	16
52	Mesolimbic connectivity signatures of impulsivity and BMI in early adolescence. Appetite, 2019, 132, 25-36.	1.8	11
53	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
54	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0

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55	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0
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57	Local vulnerability and global connectivity jointly shape neurodegenerative disease propagation. , 2019, 17, e3000495.		0
58	Network-Based Asymmetry of the Human Auditory System. Cerebral Cortex, 2018, 28, 2655-2664.	1.6	51
59	Communication dynamics in complex brain networks. Nature Reviews Neuroscience, 2018, 19, 17-33.	4.9	593
60	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
61	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
62	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
63	Optimized connectome architecture for sensory-motor integration. Network Neuroscience, 2017, 1, 415-430.	1.4	29
64	Anatomical and functional organization of the human substantia nigra and its connections. ELife, 2017, 6, .	2.8	86
65	Mapping Language Networks Using the Structural and Dynamic Brain Connectomes. ENeuro, 2017, 4, ENEURO.0204-17.2017.	0.9	45
66	From regions to connections and networks: new bridges between brain and behavior. Current Opinion in Neurobiology, 2016, 40, 1-7.	2.0	212
67	Network-Level Structure-Function Relationships in Human Neocortex. Cerebral Cortex, 2016, 26, 3285-3296.	1.6	260
68	Dynamic functional connectivity shapes individual differences in associative learning. Human Brain Mapping, 2016, 37, 3911-3928.	1.9	20
69	Integration and segregation of large-scale brain networks during short-term task automatization. Nature Communications, 2016, 7, 13217.	5.8	127
70	Post-Traumatic Stress Constrains the Dynamic Repertoire of Neural Activity. Journal of Neuroscience, 2016, 36, 419-431.	1.7	42
71	[MEG]PLS: A pipeline for MEG data analysis and partial least squares statistics. NeuroImage, 2016, 124, 181-193.	2.1	10
72	Generative models of the human connectome. NeuroImage, 2016, 124, 1054-1064.	2.1	259

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73	A Partial Least-Squares Analysis of Health-Related Quality-of-Life Outcomes After Aneurysmal Subarachnoid Hemorrhage. <i>Neurosurgery</i> , 2015, 77, 908-915.	0.6	11
74	Coordinated Information Generation and Mental Flexibility: Large-Scale Network Disruption in Children with Autism. <i>Cerebral Cortex</i> , 2015, 25, 2815-2827.	1.6	38
75	Cooperative and Competitive Spreading Dynamics on the Human Connectome. <i>Neuron</i> , 2015, 86, 1518-1529.	3.8	309
76	Stable long-range interhemispheric coordination is supported by direct anatomical projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6473-6478.	3.3	110
77	The Functional Connectivity Landscape of the Human Brain. <i>PLoS ONE</i> , 2014, 9, e111007.	1.1	44
78	Communication Efficiency and Congestion of Signal Traffic in Large-Scale Brain Networks. <i>PLoS Computational Biology</i> , 2014, 10, e1003427.	1.5	107
79	A Network Convergence Zone in the Hippocampus. <i>PLoS Computational Biology</i> , 2014, 10, e1003982.	1.5	89
80	Developmental Trajectory of Face Processing Revealed by Integrative Dynamics. <i>Journal of Cognitive Neuroscience</i> , 2014, 26, 2416-2430.	1.1	2
81	Does resting-state connectivity reflect depressive rumination? A tale of two analyses. <i>NeuroImage</i> , 2014, 103, 267-279.	2.1	82
82	Using multivariate data reduction to predict postsurgery memory decline in patients with mesial temporal lobe epilepsy. <i>Epilepsy and Behavior</i> , 2014, 31, 220-227.	0.9	22
83	Multivariate Statistical Analyses for Neuroimaging Data. <i>Annual Review of Psychology</i> , 2013, 64, 499-525.	9.9	214
84	Confounding Effects of Phase Delays on Causality Estimation. <i>PLoS ONE</i> , 2013, 8, e53588.	1.1	18
85	Exploring Age-Related Changes in Dynamical Non-Stationarity in Electroencephalographic Signals during Early Adolescence. <i>PLoS ONE</i> , 2013, 8, e57217.	1.1	13
86	Functional embedding predicts the variability of neural activity. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 90.	1.2	73
87	Empirical and theoretical aspects of generation and transfer of information in a neuromagnetic source network. <i>Frontiers in Systems Neuroscience</i> , 2011, 5, 96.	1.2	41
88	Extracting Message Inter-Departure Time Distributions from the Human Electroencephalogram. <i>PLoS Computational Biology</i> , 2011, 7, e1002065.	1.5	5
89	Brain Noise Is Task Dependent and Region Specific. <i>Journal of Neurophysiology</i> , 2010, 104, 2667-2676.	0.9	135