

Matthew F Glasser

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

28,662
citations

34493

54
h-index

60403

85
g-index

110
all docs

110
docs citations

110
times ranked

21713
citing authors

#	ARTICLE	IF	CITATIONS
1	The minimal preprocessing pipelines for the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 105-124.	2.1	4,042
2	A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 2016, 536, 171-178.	13.7	3,634
3	Automatic denoising of functional MRI data: Combining independent component analysis and hierarchical fusion of classifiers. <i>NeuroImage</i> , 2014, 90, 449-468.	2.1	1,580
4	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 144-168.	2.1	1,367
5	Function in the human connectome: Task-fMRI and individual differences in behavior. <i>NeuroImage</i> , 2013, 80, 169-189.	2.1	1,259
6	Mapping Human Cortical Areas <i>In Vivo</i> Based on Myelin Content as Revealed by T1- and T2-Weighted MRI. <i>Journal of Neuroscience</i> , 2011, 31, 11597-11616.	1.7	1,185
7	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 125-143.	2.1	851
8	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016, 19, 1175-1187.	7.1	825
9	Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013, 17, 666-682.	4.0	802
10	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. <i>Nature Neuroscience</i> , 2015, 18, 1565-1567.	7.1	782
11	The evolution of the arcuate fasciculus revealed with comparative DTI. <i>Nature Neuroscience</i> , 2008, 11, 426-428.	7.1	773
12	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 80-104.	2.1	769
13	Temporally-independent functional modes of spontaneous brain activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3131-3136.	3.3	696
14	Parcellations and Hemispheric Asymmetries of Human Cerebral Cortex Analyzed on Surface-Based Atlases. <i>Cerebral Cortex</i> , 2012, 22, 2241-2262.	1.6	561
15	DTI Tractography of the Human Brain's Language Pathways. <i>Cerebral Cortex</i> , 2008, 18, 2471-2482.	1.6	542
16	MSM: A new flexible framework for Multimodal Surface Matching. <i>NeuroImage</i> , 2014, 100, 414-426.	2.1	532
17	Canonical genetic signatures of the adult human brain. <i>Nature Neuroscience</i> , 2015, 18, 1832-1844.	7.1	503
18	Informatics and Data Mining Tools and Strategies for the Human Connectome Project. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 4.	1.3	484

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19	Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017, 154, 188-205.	2.1	428
20	Trends and properties of human cerebral cortex: Correlations with cortical myelin content. <i>NeuroImage</i> , 2014, 93, 165-175.	2.1	369
21	Human Connectome Project informatics: Quality control, database services, and data visualization. <i>NeuroImage</i> , 2013, 80, 202-219.	2.1	356
22	Altered global brain signal in schizophrenia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7438-7443.	3.3	347
23	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. <i>Journal of Neuroscience</i> , 2016, 36, 6758-6770.	1.7	318
24	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. <i>NeuroImage</i> , 2018, 183, 972-984.	2.1	290
25	Hierarchical Heterogeneity across Human Cortex Shapes Large-Scale Neural Dynamics. <i>Neuron</i> , 2019, 101, 1181-1194.e13.	3.8	271
26	The impact of traditional neuroimaging methods on the spatial localization of cortical areas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6356-E6365.	3.3	255
27	Using temporal ICA to selectively remove global noise while preserving global signal in functional MRI data. <i>NeuroImage</i> , 2018, 181, 692-717.	2.1	223
28	Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , 2018, 167, 453-465.	2.1	219
29	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013, 76, 313-324.	2.1	203
30	Quantitative assessment of prefrontal cortex in humans relative to nonhuman primates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5183-E5192.	3.3	203
31	A Domain-General Cognitive Core Defined in Multimodally Parcellated Human Cortex. <i>Cerebral Cortex</i> , 2020, 30, 4361-4380.	1.6	197
32	The relationship between spatial configuration and functional connectivity of brain regions. <i>ELife</i> , 2018, 7, .	2.8	184
33	MHC matching improves engraftment of iPSC-derived neurons in non-human primates. <i>Nature Communications</i> , 2017, 8, 385.	5.8	178
34	Neurite imaging reveals microstructural variations in human cerebral cortical gray matter. <i>NeuroImage</i> , 2018, 182, 488-499.	2.1	164
35	Cortical Parcellations of the Macaque Monkey Analyzed on Surface-Based Atlases. <i>Cerebral Cortex</i> , 2012, 22, 2227-2240.	1.6	162
36	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. <i>Journal of Vision</i> , 2018, 18, 23.	0.1	139

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37	Continuity, Divergence, and the Evolution of Brain Language Pathways. <i>Frontiers in Evolutionary Neuroscience</i> , 2011, 3, 11.	3.7	136
38	Cerebral cortical folding, parcellation, and connectivity in humans, nonhuman primates, and mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26173-26180.	3.3	130
39	A DTI Investigation of Neural Substrates Supporting Tool Use. <i>Cerebral Cortex</i> , 2010, 20, 507-516.	1.6	125
40	Differences between chimpanzees and bonobos in neural systems supporting social cognition. <i>Social Cognitive and Affective Neuroscience</i> , 2012, 7, 369-379.	1.5	119
41	Correspondences between retinotopic areas and myelin maps in human visual cortex. <i>NeuroImage</i> , 2014, 99, 509-524.	2.1	117
42	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017, 154, 23-32.	2.1	117
43	Parcellating an Individual Subject's Cortical and Subcortical Brain Structures Using Snowball Sampling of Resting-State Correlations. <i>Cerebral Cortex</i> , 2014, 24, 2036-2054.	1.6	115
44	The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 2021, 244, 118543.	2.1	114
45	The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017, 6, .	2.8	107
46	Parcellating Cerebral Cortex: How Invasive Animal Studies Inform Noninvasive Mapmaking in Humans. <i>Neuron</i> , 2018, 99, 640-663.	3.8	103
47	Ciftify: A framework for surface-based analysis of legacy MR acquisitions. <i>NeuroImage</i> , 2019, 197, 818-826.	2.1	101
48	Large-scale Probabilistic Functional Modes from resting state fMRI. <i>NeuroImage</i> , 2015, 109, 217-231.	2.1	98
49	Development and Evolution of Cerebral and Cerebellar Cortex. <i>Brain, Behavior and Evolution</i> , 2018, 91, 158-169.	0.9	97
50	Mapping putative hubs in human, chimpanzee and rhesus macaque connectomes via diffusion tractography. <i>NeuroImage</i> , 2013, 80, 462-474.	2.1	94
51	Dynamic patterns of cortical expansion during folding of the preterm human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 3156-3161.	3.3	94
52	Brain aging in humans, chimpanzees (<i>Pan troglodytes</i>), and rhesus macaques (<i>Macaca mulatta</i>): magnetic resonance imaging studies of macro- and microstructural changes. <i>Neurobiology of Aging</i> , 2013, 34, 2248-2260.	1.5	92
53	The effects of connection reconstruction method on the interregional connectivity of brain networks via diffusion tractography. <i>Human Brain Mapping</i> , 2012, 33, 1894-1913.	1.9	88
54	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. <i>NeuroImage</i> , 2018, 179, 11-29.	2.1	83

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55	ConnectomeDB"Sharing human brain connectivity data. NeuroImage, 2016, 124, 1102-1107.	2.1	80
56	The Brain Analysis Library of Spatial maps and Atlases (BALSA) database. NeuroImage, 2017, 144, 270-274.	2.1	69
57	Towards HCP-Style macaque connectomes: 24-Channel 3T multi-array coil, MRI sequences and preprocessing. NeuroImage, 2020, 215, 116800.	2.1	67
58	In vivo architectonics: A cortico-centric perspective. NeuroImage, 2014, 93, 157-164.	2.1	60
59	The nonhuman primate neuroimaging and neuroanatomy project. NeuroImage, 2021, 229, 117726.	2.1	57
60	Mapping Connections in Humans and Non-Human Primates. , 2014, , 337-358.		53
61	Diffusion Tensor Model links to Neurite Orientation Dispersion and Density Imaging at high b-value in Cerebral Cortical Gray Matter. Scientific Reports, 2019, 9, 12246.	1.6	49
62	Classification of temporal ICA components for separating global noise from fMRI data: Reply to Power. NeuroImage, 2019, 197, 435-438.	2.1	40
63	Quantitative assessment of a framework for creating anatomical brain networks via global tractography. NeuroImage, 2012, 61, 1017-1030.	2.1	37
64	Brain/MINDS beyond human brain MRI project: A protocol for multi-level harmonization across brain disorders throughout the lifespan. NeuroImage: Clinical, 2021, 30, 102600.	1.4	34
65	Chimpanzee (Pan troglodytes) Precentral Corticospinal System Asymmetry and Handedness: A Diffusion Magnetic Resonance Imaging Study. PLoS ONE, 2010, 5, e12886.	1.1	34
66	Multimodal Surface Matching: Fast and Generalisable Cortical Registration Using Discrete Optimisation. Lecture Notes in Computer Science, 2013, 23, 475-486.	1.0	32
67	Organization of extrastriate and temporal cortex in chimpanzees compared to humans and macaques. Cortex, 2019, 118, 223-243.	1.1	30
68	Multi-modal biomarkers of low back pain: A machine learning approach. NeuroImage: Clinical, 2021, 29, 102530.	1.4	30
69	Precise Topology of Adjacent Domain-General and Sensory-Biased Regions in the Human Brain. Cerebral Cortex, 2022, 32, 2521-2537.	1.6	23
70	Comparative connectomics of the primate social brain. NeuroImage, 2021, 245, 118693.	2.1	23
71	Minimal specifications for non-human primate MRI: Challenges in standardizing and harmonizing data collection. NeuroImage, 2021, 236, 118082.	2.1	22
72	Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. Brain Structure and Function, 2019, 224, 1021-1033.	1.2	21

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73	Empirical transmit field bias correction of T1w/T2w myelin maps. <i>NeuroImage</i> , 2022, 258, 119360.	2.1	20
74	Early postnatal myelin content estimate of white matter via T1w/T2w ratio. , 2015, 9417, .		19
75	Reproducibility of myelin contentâ€based human habenula segmentation at 3 Tesla. <i>Human Brain Mapping</i> , 2018, 39, 3058-3071.	1.9	17
76	Evoking highly focal percepts in the fingertips through targeted stimulation of sulcal regions of the brain for sensory restoration. <i>Brain Stimulation</i> , 2021, 14, 1184-1196.	0.7	16
77	Recent developments in representations of the connectome. <i>NeuroImage</i> , 2021, 243, 118533.	2.1	16
78	Modelling white matter in gyral blades as a continuous vector field. <i>NeuroImage</i> , 2021, 227, 117693.	2.1	15
79	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. <i>Bioelectronic Medicine</i> , 2021, 7, 14.	1.0	11
80	Parcellations and Connectivity Patterns in Human and Macaque Cerebral Cortex. <i>Research and Perspectives in Neurosciences</i> , 2016, , 89-106.	0.4	10
81	Anatomical variability, multi-modal coordinate systems, and precision targeting in the marmoset brain. <i>NeuroImage</i> , 2022, 250, 118965.	2.1	10
82	Regional Age-Related Atrophy After Screening for Preclinical Alzheimer Disease. <i>Neurobiology of Aging</i> , 2021, 109, 43-51.	1.5	9
83	Relating whole-brain functional connectivity to self-reported negative emotion in a large sample of young adults using group regularized canonical correlation analysis. <i>NeuroImage</i> , 2021, 237, 118137.	2.1	7
84	Reply to Barton and Montgomery: A case for preferential prefrontal cortical expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5-6.	3.3	6
85	Decoding Neural Activity in Sulcal and White Matter Areas of the Brain to Accurately Predict Individual Finger Movement and Tactile Stimuli of the Human Hand. <i>Frontiers in Neuroscience</i> , 2021, 15, 699631.	1.4	5
86	Geometric Deep Learning of the Human Connectome Project Multimodal Cortical Parcellation. <i>Lecture Notes in Computer Science</i> , 2021, , 103-112.	1.0	3
87	Postviral Gastroparesis Associated With SARS-CoV-2 Infection in a Pediatric Patient. <i>JPGN Reports</i> , 2022, 3, e195.	0.2	2