Matthew F Glasser

List of Publications by Year
in descending order

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87 papers	28,662 citations	29994 54 h-index	53109 85 g-index
110 all docs	110 docs citations	110 times ranked	19157 citing authors

#	Article	IF	Citations
1	Precise Topology of Adjacent Domain-General and Sensory-Biased Regions in the Human Brain. Cerebral Cortex, 2022, 32, 2521-2537.	1.6	23
2	Anatomical variability, multi-modal coordinate systems, and precision targeting in the marmoset brain. NeuroImage, 2022, 250, 118965.	2.1	10
3	Postviral Gastroparesis Associated With SARS-CoV-2 Infection in a Pediatric Patient. JPGN Reports, 2022, 3, e195.	0.2	2
4	Empirical transmit field bias correction of T1w/T2w myelin maps. NeuroImage, 2022, 258, 119360.	2.1	20
5	Multi-modal biomarkers of low back pain: A machine learning approach. NeuroImage: Clinical, 2021, 29, 102530.	1.4	30
6	Geometric Deep Learning of the Human Connectome Project Multimodal Cortical Parcellation. Lecture Notes in Computer Science, 2021, , 103-112.	1.0	3
7	Modelling white matter in gyral blades as a continuous vector field. NeuroImage, 2021, 227, 117693.	2.1	15
8	The nonhuman primate neuroimaging and neuroanatomy project. NeuroImage, 2021, 229, 117726.	2.1	57
9	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. Frontiers in Neuroscience, 2021, 15, 699631.	1.4	5
10	Relating whole-brain functional connectivity to self-reported negative emotion in a large sample of young adults using group regularized canonical correlation analysis. NeuroImage, 2021, 237, 118137.	2.1	7
11	Minimal specifications for non-human primate MRI: Challenges in standardizing and harmonizing data collection. NeuroImage, 2021, 236, 118082.	2.1	22
12	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. Bioelectronic Medicine, 2021, 7, 14.	1.0	11
13	Evoking highly focal percepts in the fingertips through targeted stimulation of sulcal regions of the brain for sensory restoration. Brain Stimulation, 2021, 14, 1184-1196.	0.7	16
14	Regional Age-Related Atrophy After Screening for Preclinical Alzheimer Disease. Neurobiology of Aging, 2021, 109, 43-51.	1.5	9
15	Recent developments in representations of the connectome. NeuroImage, 2021, 243, 118533.	2.1	16
16	The Human Connectome Project: A retrospective. NeuroImage, 2021, 244, 118543.	2.1	114
17	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
18	Comparative connectomics of the primate social brain. NeuroImage, 2021, 245, 118693.	2.1	23

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19	Towards HCP-Style macaque connectomes: 24-Channel 3T multi-array coil, MRI sequences and preprocessing. NeuroImage, 2020, 215, 116800.	2.1	67
20	A Domain-General Cognitive Core Defined in Multimodally Parcellated Human Cortex. Cerebral Cortex, 2020, 30, 4361-4380.	1.6	197
21	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
22	Ciftify: A framework for surface-based analysis of legacy MR acquisitions. NeuroImage, 2019, 197, 818-826.	2.1	101
23	Classification of temporal ICA components for separating global noise from fMRI data: Reply to Power. NeuroImage, 2019, 197, 435-438.	2.1	40
24	Organization of extrastriate and temporal cortex in chimpanzees compared to humans and macaques. Cortex, 2019, 118, 223-243.	1.1	30
25	Hierarchical Heterogeneity across Human Cortex Shapes Large-Scale Neural Dynamics. Neuron, 2019, 101, 1181-1194.e13.	3.8	271
26	Cerebral cortical folding, parcellation, and connectivity in humans, nonhuman primates, and mice. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26173-26180.	3.3	130
27	Reply to Barton and Montgomery: A case for preferential prefrontal cortical expansion. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5-6.	3.3	6
28	Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. Brain Structure and Function, 2019, 224, 1021-1033.	1.2	21
29	Dynamic patterns of cortical expansion during folding of the preterm human brain. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3156-3161.	3.3	94
30	Reproducibility of myelin contentâ€based human habenula segmentation at 3 Tesla. Human Brain Mapping, 2018, 39, 3058-3071.	1.9	17
31	Neurite imaging reveals microstructural variations in human cerebral cortical gray matter. NeuroImage, 2018, 182, 488-499.	2.1	164
32	Multimodal surface matching with higher-order smoothness constraints. NeuroImage, 2018, 167, 453-465.	2.1	219
33	The Human Connectome Project 7 Tesla retinotopy dataset: Description and population receptive field analysis. Journal of Vision, 2018, 18, 23.	0.1	139
34	Extending the Human Connectome Project across ages: Imaging protocols for the Lifespan Development and Aging projects. NeuroImage, 2018, 183, 972-984.	2.1	290
35	Quantitative assessment of prefrontal cortex in humans relative to nonhuman primates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5183-E5192.	3.3	203
36	The relationship between spatial configuration and functional connectivity of brain regions. ELife, 2018, 7, .	2.8	184

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37	Using temporal ICA to selectively remove global noise while preserving global signal in functional MRI data. NeuroImage, 2018, 181, 692-717.	2.1	223
38	Development and Evolution of Cerebral and Cerebellar Cortex. Brain, Behavior and Evolution, 2018, 91, 158-169.	0.9	97
39	Parcellating Cerebral Cortex: How Invasive Animal Studies Inform Noninvasive Mapmaking in Humans. Neuron, 2018, 99, 640-663.	3.8	103
40	Construction of a neonatal cortical surface atlas using Multimodal Surface Matching in the Developing Human Connectome Project. NeuroImage, 2018, 179, 11-29.	2.1	83
41	The impact of traditional neuroimaging methods on the spatial localization of cortical areas. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6356-E6365.	3.3	255
42	The Brain Analysis Library of Spatial maps and Atlases (BALSA) database. NeuroImage, 2017, 144, 270-274.	2.1	69
43	Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. NeuroImage, 2017, 154, 23-32.	2.1	117
44	Hand classification of fMRI ICA noise components. NeuroImage, 2017, 154, 188-205.	2.1	428
45	MHC matching improves engraftment of iPSC-derived neurons in non-human primates. Nature Communications, 2017, 8, 385.	5.8	178
46	The heritability of multi-modal connectivity in human brain activity. ELife, 2017, 6, .	2.8	107
47	The Human Connectome Project's neuroimaging approach. Nature Neuroscience, 2016, 19, 1175-1187.	7.1	825
48	A multi-modal parcellation of human cerebral cortex. Nature, 2016, 536, 171-178.	13.7	3,634
49	Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey. Journal of Neuroscience, 2016, 36, 6758-6770.	1.7	318
50	ConnectomeDBâ€”Sharing human brain connectivity data. NeuroImage, 2016, 124, 1102-1107.	2.1	80
51	Parcellations and Connectivity Patterns in Human and Macaque Cerebral Cortex. Research and Perspectives in Neurosciences, 2016, , 89-106.	0.4	10
52	Canonical genetic signatures of the adult human brain. Nature Neuroscience, 2015, 18, 1832-1844.	7.1	503
53	Large-scale Probabilistic Functional Modes from resting state fMRI. NeuroImage, 2015, 109, 217-231.	2.1	98
54	Early postnatal myelin content estimate of white matter via T1w/T2w ratio. , 2015, 9417, .		19

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55	A positive-negative mode of population covariation links brain connectivity, demographics and behavior. Nature Neuroscience, 2015, 18, 1565-1567.	7.1	782
56	Mapping Connections in Humans andÂNon-Human Primates. , 2014, , 337-358.		53
57	Correspondences between retinotopic areas and myelin maps in human visual cortex. NeuroImage, 2014, 99, 509-524.	2.1	117
58	Automatic denoising of functional MRI data: Combining independent component analysis and hierarchical fusion of classifiers. NeuroImage, 2014, 90, 449-468.	2.1	1,580
59	Parcellating an Individual Subject's Cortical and Subcortical Brain Structures Using Snowball Sampling of Resting-State Correlations. Cerebral Cortex, 2014, 24, 2036-2054.	1.6	115
60	Altered global brain signal in schizophrenia. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7438-7443.	3.3	347
61	In vivo architectonics: A cortico-centric perspective. NeuroImage, 2014, 93, 157-164.	2.1	60
62	Trends and properties of human cerebral cortex: Correlations with cortical myelin content. NeuroImage, 2014, 93, 165-175.	2.1	369
63	MSM: A new flexible framework for Multimodal Surface Matching. NeuroImage, 2014, 100, 414-426.	2.1	532
64	Brain aging in humans, chimpanzees (Pan troglodytes), and rhesus macaques (Macaca mulatta): magnetic resonance imaging studies of macro- and microstructural changes. Neurobiology of Aging, 2013, 34, 2248-2260.	1.5	92
65	Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. NeuroImage, 2013, 76, 313-324.	2.1	203
66	Human Connectome Project informatics: Quality control, database services, and data visualization. NeuroImage, 2013, 80, 202-219.	2.1	356
67	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	2.1	851
68	Functional connectomics from resting-state fMRI. Trends in Cognitive Sciences, 2013, 17, 666-682.	4.0	802
69	Function in the human connectome: Task-fMRI and individual differences in behavior. NeuroImage, 2013, 80, 169-189.	2.1	1,259
70	Resting-state fMRI in the Human Connectome Project. NeuroImage, 2013, 80, 144-168.	2.1	1,367
71	Mapping putative hubs in human, chimpanzee and rhesus macaque connectomes via diffusion tractography. NeuroImage, 2013, 80, 462-474.	2.1	94
72	The minimal preprocessing pipelines for the Human Connectome Project. NeuroImage, 2013, 80, 105-124.	2.1	4,042

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73	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. NeuroImage, 2013, 80, 80-104.	2.1	769
74	Multimodal Surface Matching: Fast and Generalisable Cortical Registration Using Discrete Optimisation. Lecture Notes in Computer Science, 2013, 23, 475-486.	1.0	32
75	Parcellations and Hemispheric Asymmetries of Human Cerebral Cortex Analyzed on Surface-Based Atlases. Cerebral Cortex, 2012, 22, 2241-2262.	1.6	561
76	Cortical Parcellations of the Macaque Monkey Analyzed on Surface-Based Atlases. Cerebral Cortex, 2012, 22, 2227-2240.	1.6	162
77	Temporally-independent functional modes of spontaneous brain activity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3131-3136.	3.3	696
78	Differences between chimpanzees and bonobos in neural systems supporting social cognition. Social Cognitive and Affective Neuroscience, 2012, 7, 369-379.	1.5	119
79	Quantitative assessment of a framework for creating anatomical brain networks via global tractography. NeuroImage, 2012, 61, 1017-1030.	2.1	37
80	The effects of connection reconstruction method on the interregional connectivity of brain networks via diffusion tractography. Human Brain Mapping, 2012, 33, 1894-1913.	1.9	88
81	Informatics and Data Mining Tools and Strategies for the Human Connectome Project. Frontiers in Neuroinformatics, 2011, 5, 4.	1.3	484
82	Mapping Human Cortical AreasIn VivoBased on Myelin Content as Revealed by T1- and T2-Weighted MRI. Journal of Neuroscience, 2011, 31, 11597-11616.	1.7	1,185
83	Continuity, Divergence, and the Evolution of Brain Language Pathways. Frontiers in Evolutionary Neuroscience, 2011, 3, 11.	3.7	136
84	A DTI Investigation of Neural Substrates Supporting Tool Use. Cerebral Cortex, 2010, 20, 507-516.	1.6	125
85	Chimpanzee (Pan troglodytes) Precentral Corticospinal System Asymmetry and Handedness: A Diffusion Magnetic Resonance Imaging Study. PLoS ONE, 2010, 5, e12886.	1.1	34
86	The evolution of the arcuate fasciculus revealed with comparative DTI. Nature Neuroscience, 2008, 11, 426-428.	7.1	773
87	DTI Tractography of the Human Brain's Language Pathways. Cerebral Cortex, 2008, 18, 2471-2482.	1.6	542