

# 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  | Precise Topology of Adjacent Domain-General and Sensory-Biased Regions in the Human Brain. <i>Cerebral Cortex</i> , 2022, 32, 2521-2537.  | 1.6 | 23        |
| 2  | Anatomical variability, multi-modal coordinate systems, and precision targeting in the marmoset brain. <i>NeuroImage</i> , 2022, 250, 118965.   | 2.1 | 10        |
| 3  | Postviral Gastroparesis Associated With SARS-CoV-2 Infection in a Pediatric Patient. <i>JPGN Reports</i> , 2022, 3, e195.   | 0.2 | 2         |
| 4  | Empirical transmit field bias correction of T1w/T2w myelin maps. <i>NeuroImage</i> , 2022, 258, 119360.   | 2.1 | 20        |
| 5  | Multi-modal biomarkers of low back pain: A machine learning approach. <i>NeuroImage: Clinical</i> , 2021, 29, 102530.   | 1.4 | 30        |
| 6  | Geometric Deep Learning of the Human Connectome Project Multimodal Cortical Parcellation. <i>Lecture Notes in Computer Science</i> , 2021, , 103-112.   | 1.0 | 3         |
| 7  | Modelling white matter in gyral blades as a continuous vector field. <i>NeuroImage</i> , 2021, 227, 117693.   | 2.1 | 15        |
| 8  | The nonhuman primate neuroimaging and neuroanatomy project. <i>NeuroImage</i> , 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. <i>Frontiers in Neuroscience</i> , 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. <i>NeuroImage</i> , 2021, 237, 118137.     | 2.1 | 7         |
| 11 | Minimal specifications for non-human primate MRI: Challenges in standardizing and harmonizing data collection. <i>NeuroImage</i> , 2021, 236, 118082.   | 2.1 | 22        |
| 12 | Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. <i>Bioelectronic Medicine</i> , 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. <i>Brain Stimulation</i> , 2021, 14, 1184-1196.                                | 0.7 | 16        |
| 14 | Regional Age-Related Atrophy After Screening for Preclinical Alzheimer Disease. <i>Neurobiology of Aging</i> , 2021, 109, 43-51.  | 1.5 | 9         |
| 15 | Recent developments in representations of the connectome. <i>NeuroImage</i> , 2021, 243, 118533.  | 2.1 | 16        |
| 16 | The Human Connectome Project: A retrospective. <i>NeuroImage</i> , 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. <i>NeuroImage: Clinical</i> , 2021, 30, 102600.                                | 1.4 | 34        |
| 18 | Comparative connectomics of the primate social brain. <i>NeuroImage</i> , 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. <i>NeuroImage</i> , 2020, 215, 116800.   | 2.1 | 67        |
| 20 | A Domain-General Cognitive Core Defined in Multimodally Parcellated Human Cortex. <i>Cerebral Cortex</i> , 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. <i>Scientific Reports</i> , 2019, 9, 12246.                                   | 1.6 | 49        |
| 22 | Ciftify: A framework for surface-based analysis of legacy MR acquisitions. <i>NeuroImage</i> , 2019, 197, 818-826.   | 2.1 | 101       |
| 23 | Classification of temporal ICA components for separating global noise from fMRI data: Reply to Power. <i>NeuroImage</i> , 2019, 197, 435-438.  | 2.1 | 40        |
| 24 | Organization of extrastriate and temporal cortex in chimpanzees compared to humans and macaques. <i>Cortex</i> , 2019, 118, 223-243.   | 1.1 | 30        |
| 25 | Hierarchical Heterogeneity across Human Cortex Shapes Large-Scale Neural Dynamics. <i>Neuron</i> , 2019, 101, 1181-1194.e13.   | 3.8 | 271       |
| 26 | 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       |
| 27 | 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         |
| 28 | Concurrent analysis of white matter bundles and grey matter networks in the chimpanzee. <i>Brain Structure and Function</i> , 2019, 224, 1021-1033.  | 1.2 | 21        |
| 29 | 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        |
| 30 | Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. <i>Human Brain Mapping</i> , 2018, 39, 3058-3071.  | 1.9 | 17        |
| 31 | Neurite imaging reveals microstructural variations in human cerebral cortical gray matter. <i>NeuroImage</i> , 2018, 182, 488-499.   | 2.1 | 164       |
| 32 | Multimodal surface matching with higher-order smoothness constraints. <i>NeuroImage</i> , 2018, 167, 453-465.  | 2.1 | 219       |
| 33 | 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       |
| 34 | 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       |
| 35 | 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       |
| 36 | The relationship between spatial configuration and functional connectivity of brain regions. <i>ELife</i> , 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. <i>NeuroImage</i> , 2018, 181, 692-717.   | 2.1  | 223       |
| 38 | Development and Evolution of Cerebral and Cerebellar Cortex. <i>Brain, Behavior and Evolution</i> , 2018, 91, 158-169.   | 0.9  | 97        |
| 39 | Parcellating Cerebral Cortex: How Invasive Animal Studies Inform Noninvasive Mapmaking in Humans. <i>Neuron</i> , 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. <i>NeuroImage</i> , 2018, 179, 11-29.  | 2.1  | 83        |
| 41 | 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       |
| 42 | The Brain Analysis Library of Spatial maps and Atlases (BALSA) database. <i>NeuroImage</i> , 2017, 144, 270-274.   | 2.1  | 69        |
| 43 | Tradeoffs in pushing the spatial resolution of fMRI for the 7T Human Connectome Project. <i>NeuroImage</i> , 2017, 154, 23-32.   | 2.1  | 117       |
| 44 | Hand classification of fMRI ICA noise components. <i>NeuroImage</i> , 2017, 154, 188-205.  | 2.1  | 428       |
| 45 | MHC matching improves engraftment of iPSC-derived neurons in non-human primates. <i>Nature Communications</i> , 2017, 8, 385.  | 5.8  | 178       |
| 46 | The heritability of multi-modal connectivity in human brain activity. <i>ELife</i> , 2017, 6, .  | 2.8  | 107       |
| 47 | The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016, 19, 1175-1187.  | 7.1  | 825       |
| 48 | A multi-modal parcellation of human cerebral cortex. <i>Nature</i> , 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. <i>Journal of Neuroscience</i> , 2016, 36, 6758-6770.                 | 1.7  | 318       |
| 50 | ConnectomeDB—Sharing human brain connectivity data. <i>NeuroImage</i> , 2016, 124, 1102-1107.  | 2.1  | 80        |
| 51 | Parcellations and Connectivity Patterns in Human and Macaque Cerebral Cortex. <i>Research and Perspectives in Neurosciences</i> , 2016, , 89-106.  | 0.4  | 10        |
| 52 | Canonical genetic signatures of the adult human brain. <i>Nature Neuroscience</i> , 2015, 18, 1832-1844.   | 7.1  | 503       |
| 53 | Large-scale Probabilistic Functional Modes from resting state fMRI. <i>NeuroImage</i> , 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. <i>Nature Neuroscience</i> , 2015, 18, 1565-1567.   | 7.1 | 782       |
| 56 | Mapping Connections in Humans and Non-Human Primates. , 2014, , 337-358.  |     | 53        |
| 57 | Correspondences between retinotopic areas and myelin maps in human visual cortex. <i>NeuroImage</i> , 2014, 99, 509-524.  | 2.1 | 117       |
| 58 | 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     |
| 59 | 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       |
| 60 | 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       |
| 61 | In vivo architectonics: A cortico-centric perspective. <i>NeuroImage</i> , 2014, 93, 157-164.   | 2.1 | 60        |
| 62 | Trends and properties of human cerebral cortex: Correlations with cortical myelin content. <i>NeuroImage</i> , 2014, 93, 165-175.   | 2.1 | 369       |
| 63 | MSM: A new flexible framework for Multimodal Surface Matching. <i>NeuroImage</i> , 2014, 100, 414-426.  | 2.1 | 532       |
| 64 | 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        |
| 65 | Spatially constrained hierarchical parcellation of the brain with resting-state fMRI. <i>NeuroImage</i> , 2013, 76, 313-324.  | 2.1 | 203       |
| 66 | Human Connectome Project informatics: Quality control, database services, and data visualization. <i>NeuroImage</i> , 2013, 80, 202-219.  | 2.1 | 356       |
| 67 | Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 125-143.  | 2.1 | 851       |
| 68 | Functional connectomics from resting-state fMRI. <i>Trends in Cognitive Sciences</i> , 2013, 17, 666-682.   | 4.0 | 802       |
| 69 | Function in the human connectome: Task-fMRI and individual differences in behavior. <i>NeuroImage</i> , 2013, 80, 169-189.  | 2.1 | 1,259     |
| 70 | Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 144-168.  | 2.1 | 1,367     |
| 71 | Mapping putative hubs in human, chimpanzee and rhesus macaque connectomes via diffusion tractography. <i>NeuroImage</i> , 2013, 80, 462-474.  | 2.1 | 94        |
| 72 | The minimal preprocessing pipelines for the Human Connectome Project. <i>NeuroImage</i> , 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. <i>NeuroImage</i> , 2013, 80, 80-104.                                       | 2.1 | 769       |
| 74 | Multimodal Surface Matching: Fast and Generalisable Cortical Registration Using Discrete Optimisation. <i>Lecture Notes in Computer Science</i> , 2013, 23, 475-486.                  | 1.0 | 32        |
| 75 | Parcellations and Hemispheric Asymmetries of Human Cerebral Cortex Analyzed on Surface-Based Atlases. <i>Cerebral Cortex</i> , 2012, 22, 2241-2262.                                   | 1.6 | 561       |
| 76 | Cortical Parcellations of the Macaque Monkey Analyzed on Surface-Based Atlases. <i>Cerebral Cortex</i> , 2012, 22, 2227-2240.   | 1.6 | 162       |
| 77 | 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       |
| 78 | 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       |
| 79 | Quantitative assessment of a framework for creating anatomical brain networks via global tractography. <i>NeuroImage</i> , 2012, 61, 1017-1030.                                       | 2.1 | 37        |
| 80 | 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        |
| 81 | Informatics and Data Mining Tools and Strategies for the Human Connectome Project. <i>Frontiers in Neuroinformatics</i> , 2011, 5, 4.   | 1.3 | 484       |
| 82 | 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     |
| 83 | Continuity, Divergence, and the Evolution of Brain Language Pathways. <i>Frontiers in Evolutionary Neuroscience</i> , 2011, 3, 11.  | 3.7 | 136       |
| 84 | A DTI Investigation of Neural Substrates Supporting Tool Use. <i>Cerebral Cortex</i> , 2010, 20, 507-516.   | 1.6 | 125       |
| 85 | Chimpanzee ( <i>Pan troglodytes</i> ) Precentral Corticospinal System Asymmetry and Handedness: A Diffusion Magnetic Resonance Imaging Study. <i>PLoS ONE</i> , 2010, 5, e12886.      | 1.1 | 34        |
| 86 | The evolution of the arcuate fasciculus revealed with comparative DTI. <i>Nature Neuroscience</i> , 2008, 11, 426-428.  | 7.1 | 773       |
| 87 | DTI Tractography of the Human Brain's Language Pathways. <i>Cerebral Cortex</i> , 2008, 18, 2471-2482.  | 1.6 | 542       |