

Junqian Xu

List of Publications by Year in descending order

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62
papers

16,011
citations

147801

31
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133252

59
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74
all docs

74
docs citations

74
times ranked

13923
citing authors

#	ARTICLE	IF	CITATIONS
1	The minimal preprocessing pipelines for the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 105-124.	4.2	4,042
2	The Human Connectome Project: A data acquisition perspective. <i>NeuroImage</i> , 2012, 62, 2222-2231.	4.2	1,978
3	Multimodal population brain imaging in the UK Biobank prospective epidemiological study. <i>Nature Neuroscience</i> , 2016, 19, 1523-1536.	14.8	1,414
4	Resting-state fMRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 144-168.	4.2	1,367
5	ICA-based artefact removal and accelerated fMRI acquisition for improved resting state network imaging. <i>NeuroImage</i> , 2014, 95, 232-247.	4.2	1,148
6	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 125-143.	4.2	851
7	The Human Connectome Project's neuroimaging approach. <i>Nature Neuroscience</i> , 2016, 19, 1175-1187.	14.8	825
8	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. <i>NeuroImage</i> , 2013, 80, 80-104.	4.2	769
9	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.	7.1	696
10	Evaluation of slice accelerations using multiband echo planar imaging at 3T. <i>NeuroImage</i> , 2013, 83, 991-1001.	4.2	442
11	Optical coherence tomography differs in neuromyelitis optica compared with multiple sclerosis. <i>Neurology</i> , 2009, 72, 1077-1082.	1.1	182
12	Effects of image reconstruction on fiber orientation mapping from multichannel diffusion MRI: Reducing the noise floor using SENSE. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1682-1689.	3.0	169
13	Optical coherence tomography is less sensitive than visual evoked potentials in optic neuritis. <i>Neurology</i> , 2009, 73, 46-52.	1.1	137
14	Multiband accelerated spin-echo echo planar imaging with reduced peak RF power using time-shifted RF pulses. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1261-1267.	3.0	126
15	Spinal cord involvement in multiple sclerosis and neuromyelitis optica spectrum disorders. <i>Lancet Neurology</i> , The, 2019, 18, 185-197.	10.2	110
16	Magnetic resonance diffusion characteristics of histologically defined prostate cancer in humans. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 842-850.	3.0	109
17	Evaluation of highly accelerated simultaneous multi-slice EPI for fMRI. <i>NeuroImage</i> , 2015, 104, 452-459.	4.2	107
18	Disability in optic neuritis correlates with diffusion tensor-derived directional diffusivities. <i>Neurology</i> , 2009, 72, 589-594.	1.1	98

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19	High-Resolution Mapping of Myeloarchitecture In Vivo: Localization of Auditory Areas in the Human Brain. <i>Cerebral Cortex</i> , 2015, 25, 3394-3405.	2.9	90
20	Assessing optic nerve pathology with diffusion MRI: from mouse to human. <i>NMR in Biomedicine</i> , 2008, 21, 928-940.	2.8	85
21	Radial diffusivity in remote optic neuritis discriminates visual outcomes. <i>Neurology</i> , 2010, 74, 1702-1710.	1.1	82
22	Study protocol: the Whitehall II imaging sub-study. <i>BMC Psychiatry</i> , 2014, 14, 159.	2.6	82
23	Resting-state functional connectivity of the human habenula in healthy individuals: Associations with subclinical depression. <i>Human Brain Mapping</i> , 2016, 37, 2369-2384.	3.6	81
24	NMO-IgG DETECTED IN CSF IN SERONEGATIVE NEUROMYELITIS OPTICA. <i>Neurology</i> , 2009, 72, 1101-1103.	1.1	75
25	Increased diffusivity in acute multiple sclerosis lesions predicts risk of black hole. <i>Neurology</i> , 2010, 74, 1694-1701.	1.1	72
26	Improved in vivo diffusion tensor imaging of human cervical spinal cord. <i>NeuroImage</i> , 2013, 67, 64-76.	4.2	72
27	Generic acquisition protocol for quantitative MRI of the spinal cord. <i>Nature Protocols</i> , 2021, 16, 4611-4632.	12.0	65
28	Spinal cord tract diffusion tensor imaging reveals disability substrate in demyelinating disease. <i>Neurology</i> , 2013, 80, 2201-2209.	1.1	63
29	Diffusion Tensor Imaging in Acute Optic Neuropathies. <i>Archives of Neurology</i> , 2012, 69, 65.	4.5	50
30	Increased radial diffusivity in spinal cord lesions in neuromyelitis optica compared with multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2012, 18, 1259-1268.	3.0	48
31	Long-term ecological assessment of intracranial electrophysiology synchronized to behavioral markers in obsessive-compulsive disorder. <i>Nature Medicine</i> , 2021, 27, 2154-2164.	30.7	44
32	Microstructure Imaging of Crossing (MIX) White Matter Fibers from diffusion MRI. <i>Scientific Reports</i> , 2016, 6, 38927.	3.3	43
33	Human habenula segmentation using myelin content. <i>NeuroImage</i> , 2016, 130, 145-156.	4.2	38
34	Optic Nerve Diffusion Tensor Imaging Parameters and Their Correlation With Optic Disc Topography and Disease Severity in Adult Glaucoma Patients and Controls. <i>Journal of Glaucoma</i> , 2014, 23, 513-520.	1.6	33
35	7 Tesla 22-channel wrap-around coil array for cervical spinal cord and brainstem imaging. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1623-1634.	3.0	33
36	Magnetic Resonance Imaging Biomarker of Axon Loss Reflects Cervical Spondylotic Myelopathy Severity. <i>Spine</i> , 2016, 41, 751-756.	2.0	32

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37	Detailed mapping of human habenula resting-state functional connectivity. <i>NeuroImage</i> , 2019, 200, 621-634.	4.2	31
38	Angiogenic gene networks are dysregulated in opioid use disorder: evidence from multi-omics and imaging of postmortem human brain. <i>Molecular Psychiatry</i> , 2021, 26, 7803-7812.	7.9	31
39	Imaging Habenula Volume in Schizophrenia and Bipolar Disorder. <i>Frontiers in Psychiatry</i> , 2018, 9, 456.	2.6	28
40	Formalin tissue fixation biases myelin-sensitive MRI. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1504-1517.	3.0	28
41	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021, 241, 118430.	4.2	28
42	Open-access quantitative MRI data of the spinal cord and reproducibility across participants, sites and manufacturers. <i>Scientific Data</i> , 2021, 8, 219.	5.3	27
43	Empirical transmit field bias correction of T1w/T2w myelin maps. <i>NeuroImage</i> , 2022, 258, 119360.	4.2	20
44	Effects of physiologic challenge on the ADC of intracellular water in the <i>Xenopus</i> oocyte. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 239-247.	3.0	19
45	Reproducibility of myelin content-based human habenula segmentation at 3 Tesla. <i>Human Brain Mapping</i> , 2018, 39, 3058-3071.	3.6	17
46	Elevated striatal \hat{I}^3 -aminobutyric acid in youth with major depressive disorder. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 86, 203-210.	4.8	17
47	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.	1.6	16
48	Estimation of the CSA-CDF using Bayesian compressed sensing of multi-shell HARDI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1471-1485.	3.0	15
49	Historical perspectives, challenges, and future directions of implantable brain-computer interfaces for sensorimotor applications. <i>Bioelectronic Medicine</i> , 2021, 7, 14.	2.3	11
50	A SEM-Adiabatic matched-phase spin echo (SEAMS) PINS pulse pair for B1-insensitive simultaneous multislice imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 709-717.	3.0	10
51	Incorporating non-linear alignment and multi-compartmental modeling for improved human optic nerve diffusion imaging. <i>NeuroImage</i> , 2019, 196, 102-113.	4.2	6
52	Selective augmentation of corticospinal motor drive with trans-spinal direct current stimulation in the cat. <i>Brain Stimulation</i> , 2022, , .	1.6	6
53	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.	2.8	5
54	Lower cortical gamma-aminobutyric acid level contributes to increased connectivity in sensory-motor regions in progressive MS. <i>Multiple Sclerosis and Related Disorders</i> , 2020, 43, 102183.	2.0	4

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55	Smoking status links habenular volume to glycated hemoglobin: Findings from the Human Connectome Project-Young Adult. <i>Psychoneuroendocrinology</i> , 2021, 131, 105321.	2.7	4
56	Comparison of multicenter <scp>MRI</scp> protocols for visualizing the spinal cord gray matter. <i>Magnetic Resonance in Medicine</i> , 2022, 88, 849-859.	3.0	4
57	Directional diffusivity as a magnetic resonance (MR) biomarker in demyelinating disease. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
58	5.2 Gamma-Aminobutyric Acid as a Biomarker in Adolescent Depression: A Longitudinal Study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2018, 57, S227.	0.5	1
59	Positive Valence Systems Deficits in Adolescent Depression. <i>Biological Psychiatry</i> , 2020, 87, S322-S323.	1.3	0
60	Optimizing Habenula Resting-State fMRI Reveals Network Abnormalities Related to Adolescent Mood and Anxiety Symptoms. <i>Biological Psychiatry</i> , 2020, 87, S34-S35.	1.3	0
61	Association Between Habenular Volume and Hemoglobin A1c in Young Adults Differs on the Basis of Smoking Status: Findings From the Human Connectome Project. <i>Biological Psychiatry</i> , 2021, 89, S271-S272.	1.3	0
62	Prefrontal-Habenular Microstructural Impairments in Human Cocaine and Heroin Addiction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0