Hao Huang

List of Publications by Year
in descending order

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76	7,454	101535	82542
papers	citations	36 h-index	72 g-index

82	82	82	12443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stereotaxic white matter atlas based on diffusion tensor imaging in an ICBM template. NeuroImage, 2008, 40, 570-582.	4.2	1,528
2	Transcriptional landscape of the prenatal human brain. Nature, 2014, 508, 199-206.	27.8	1,147
3	Human brain white matter atlas: Identification and assignment of common anatomical structures in superficial white matter. NeuroImage, 2008, 43, 447-457.	4.2	486
4	White and gray matter development in human fetal, newborn and pediatric brains. NeuroImage, 2006, 33, 27-38.	4.2	346
5	DTI tractography based parcellation of white matter: Application to the mid-sagittal morphology of corpus callosum. NeuroImage, 2005, 26, 195-205.	4.2	335
6	Anatomical Characterization of Human Fetal Brain Development with Diffusion Tensor Magnetic Resonance Imaging. Journal of Neuroscience, 2009, 29, 4263-4273.	3.6	308
7	Developmental Connectomics from Infancy through Early Childhood. Trends in Neurosciences, 2017, 40, 494-506.	8.6	199
8	Delineation of early brain development from fetuses to infants with diffusion MRI and beyond. NeuroImage, 2019, 185, 836-850.	4.2	170
9	Analysis of noise effects on DTIâ€based tractography using the bruteâ€force and multiâ€ROI approach. Magnetic Resonance in Medicine, 2004, 52, 559-565.	3.0	169
10	Development of Human Brain Structural Networks Through Infancy and Childhood. Cerebral Cortex, 2015, 25, 1389-1404.	2.9	165
11	Three-dimensional anatomical characterization of the developing mouse brain by diffusion tensor microimaging. NeuroImage, 2003, 20, 1639-1648.	4.2	153
12	Development of axonal pathways in the human fetal frontoâ€limbic brain: histochemical characterization and diffusion tensor imaging. Journal of Anatomy, 2010, 217, 400-417.	1.5	144
13	White Matter Disruptions in Adolescents Exposed to Childhood Maltreatment and Vulnerability to Psychopathology. Neuropsychopharmacology, 2012, 37, 2693-2701.	5.4	137
14	Early Development of Functional Network Segregation Revealed by Connectomic Analysis of the Preterm Human Brain. Cerebral Cortex, 2017, 27, bhw038.	2.9	117
15	Toward Developmental Connectomics of the Human Brain. Frontiers in Neuroanatomy, 2016, 10, 25.	1.7	108
16	Distinctive disruption patterns of white matter tracts in Alzheimer's disease with full diffusion tensor characterization. Neurobiology of Aging, 2012, 33, 2029-2045.	3.1	104
17	Growth of Thalamocortical Fibers to the Somatosensory Cortex in the Human Fetal Brain. Frontiers in Neuroscience, 2017, 11, 233.	2.8	101
18	Correction of B0 susceptibility induced distortion in diffusion-weighted images using large-deformation diffeomorphic metric mapping. Magnetic Resonance Imaging, 2008, 26, 1294-1302.	1.8	93

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19	Short-range connections in the developmental connectome during typical and atypical brain maturation. Neuroscience and Biobehavioral Reviews, 2017, 83, 109-122.	6.1	86
20	Evidence of slow maturation of the superior longitudinal fasciculus in early childhood by diffusion tensor imaging. NeuroImage, 2007, 38, 239-247.	4.2	83
21	Gaining insight of fetal brain development with diffusion MRI and histology. International Journal of Developmental Neuroscience, 2014, 32, 11-22.	1.6	75
22	Differential cortical microstructural maturation in the preterm human brain with diffusion kurtosis and tensor imaging. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4681-4688.	7.1	73
23	Quantitative assessment of global cerebral metabolic rate of oxygen (CMRO₂) in neonates using MRI. NMR in Biomedicine, 2014, 27, 332-340.	2.8	70
24	Quantitative Cortical Mapping of Fractional Anisotropy in Developing Rat Brains. Journal of Neuroscience, 2008, 28, 1427-1433.	3.6	68
25	Coupling Diffusion Imaging with Histological and Gene Expression Analysis to Examine the Dynamics of Cortical Areas across the Fetal Period of Human Brain Development. Cerebral Cortex, 2013, 23, 2620-2631.	2.9	65
26	Structural Development of Human Fetal and Preterm Brain Cortical Plate Based on Population-Averaged Templates. Cerebral Cortex, 2016, 26, 4381-4391.	2.9	58
27	Baby brain atlases. NeuroImage, 2019, 185, 865-880.	4.2	57
28	T1 and T2 values of human neonatal blood at 3 Tesla: Dependence on hematocrit, oxygenation, and temperature. Magnetic Resonance in Medicine, 2016, 75, 1730-1735.	3.0	53
29	Human Fetal Brain Connectome: Structural Network Development from Middle Fetal Stage to Birth. Frontiers in Neuroscience, 2017, 11, 561.	2.8	52
30	Deep Learning Measurement of Leg Length Discrepancy in Children Based on Radiographs. Radiology, 2020, 296, 152-158.	7.3	48
31	Reduced white matter integrity and verbal fluency impairment in young adults with bipolar disorder: A diffusion tensor imaging study. Journal of Psychiatric Research, 2015, 62, 115-122.	3.1	47
32	Heterogeneous increases of regional cerebral blood flow during preterm brain development: Preliminary assessment with pseudo-continuous arterial spin labeled perfusion MRI. NeuroImage, 2017, 147, 233-242.	4.2	47
33	Atypical ageâ€dependent effects of autism on white matter microstructure in children of 2â€“7 years. Human Brain Mapping, 2016, 37, 819-832.	3.6	46
34	Structural network maturation of the preterm human brain. NeuroImage, 2019, 185, 699-710.	4.2	44
35	Development and Emergence of Individual Variability in the Functional Connectivity Architecture of the Preterm Human Brain. Cerebral Cortex, 2019, 29, 4208-4222.	2.9	44
36	Age-specific gray and white matter DTI atlas for human brain at 33, 36 and 39 postmenstrual weeks. NeuroImage, 2019, 185, 685-698.	4.2	41

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37	Diffusion tensor imaging at low SNR: nonmonotonic behaviors of tensor contrasts. Magnetic Resonance Imaging, 2008, 26, 790-800.	1.8	40
38	Superficially Located White Matter Structures Commonly Seen in the Human and the Macaque Brain with Diffusion Tensor Imaging. Brain Connectivity, 2011, 1, 37-47.	1.7	37
39	Differential White Matter Maturation from Birth to 8ÂYears of Age. Cerebral Cortex, 2020, 30, 2674-2690.	2.9	37
40	Population-averaged macaque brain atlas with high-resolution ex vivo DTI integrated into in vivo space. Brain Structure and Function, 2017, 222, 4131-4147.	2.3	36
41	Microstructure, Length, and Connection of Limbic Tracts in Normal Human Brain Development. Frontiers in Aging Neuroscience, 2014, 6, 228.	3.4	32
42	Baseline AMH Level Associated With Ovulation Following Ovulation Induction in Women With Polycystic Ovary Syndrome. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3288-3296.	3.6	30
43	Synchronous Changes of Cortical Thickness and Corresponding White Matter Microstructure During Brain Development Accessed by Diffusion MRI Tractography from Parcellated Cortex. Frontiers in Neuroanatomy, 2015, 9, 158.	1.7	29
44	Spatial mapping of structural and connectional imaging data for the developing human brain with diffusion tensor imaging. Methods, 2015, 73, 27-37.	3.8	29
45	Structure of the Fetal Brain: What We Are Learning from Diffusion Tensor Imaging. Neuroscientist, 2010, 16, 634-649.	3.5	28
46	Regional changes of cortical mean diffusivities with aging after correction of partial volume effects. NeuroImage, 2012, 62, 1705-1716.	4.2	27
47	Differences of inter-tract correlations between neonates and children around puberty: a study based on microstructural measurements with DTI. Frontiers in Human Neuroscience, 2013, 7, 721.	2.0	24
48	Diffusion-MRI-based regional cortical microstructure at birth for predicting neurodevelopmental outcomes of 2-year-olds. ELife, 2020, 9, .	6.0	19
49	Toward tract-specific fractional anisotropy (TSFA) at crossing-fiber regions with clinical diffusion MRI. Magnetic Resonance in Medicine, 2015, 74, 1768-1779.	3.0	18
50	Multiple sclerosis-related white matter microstructural change alters the BOLD hemodynamic response. Journal of Cerebral Blood Flow and Metabolism, 2016, 36, 1872-1884.	4.3	18
51	A Spontaneous Missense Mutation in Branched Chain Keto Acid Dehydrogenase Kinase in the Rat Affects Both the Central and Peripheral Nervous Systems. PLoS ONE, 2016, 11, e0160447.	2.5	16
52	Calibrated imaging reveals altered grey matter metabolism related to white matter microstructure and symptom severity in multiple sclerosis. Human Brain Mapping, 2017, 38, 5375-5390.	3.6	14
53	Altered structural cerebral cortex in children with Tourette syndrome. European Journal of Radiology, 2020, 129, 109119.	2.6	12
54	Neuroanatomical underpinning of diffusion kurtosis measurements in the cerebral cortex of healthy macaque brains. Magnetic Resonance in Medicine, 2021, 85, 1895-1908.	3.0	11

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55	Learning Deformable Image Registration From Optimization: Perspective, Modules, Bilevel Training and Beyond. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 7688-7704.	13.9	11
56	Association between Quantitative MR Markers of Cortical Evolving Organization and Gene Expression during Human Prenatal Brain Development. Cerebral Cortex, 2021, 31, 3610-3621.	2.9	11
57	Delineating Neural Structures of Developmental Human Brains with Diffusion Tensor Imaging. Scientific World Journal, The, 2010, 10, 135-144.	2.1	10
58	Asynchrony in executive networks predicts cognitive slowing in multiple sclerosis.. Neuropsychology, 2016, 30, 75-86.	1.3	9
59	The role of white matter in personality traits and affective processing in bipolar disorder. Journal of Psychiatric Research, 2016, 80, 64-72.	3.1	9
60	Cerebral Pulsed Arterial Spin Labeling Perfusion Weighted Imaging Predicts Language and Motor Outcomes in Neonatal Hypoxic-Ischemic Encephalopathy. Frontiers in Pediatrics, 2020, 8, 576489.	1.9	9
61	Brain white matter microstructural alterations in children of type I Gaucher disease characterized with diffusion tensor MR imaging. European Journal of Radiology, 2018, 102, 22-29.	2.6	8
62	Altered brain functional network in children with type 1 Gaucher disease: a longitudinal graph theory-based study. Neuroradiology, 2019, 61, 63-70.	2.2	8
63	Cerebral Blood Flow of the Neonatal Brain after Hypoxicâ€“Ischemic Injury. American Journal of Perinatology, 2023, 40, 475-488.	1.4	8
64	Deficits in Seizure Threshold and Other Behaviors in Adult Mice without Gross Neuroanatomic Injury after Late Gestation Transient Prenatal Hypoxia. Developmental Neuroscience, 2022, 44, 246-265.	2.0	8
65	Global and regional cortical connectivity maturation index (CCMI) of developmental human brain with quantification of short-range association tracts. , 2016, 9788, .		7
66	A framework on surface-based connectivity quantification for the human brain. Journal of Neuroscience Methods, 2011, 197, 324-332.	2.5	6
67	Regularized-Ncut: Robust and homogeneous functional parcellation of neonate and adult brain networks. Artificial Intelligence in Medicine, 2020, 106, 101872.	6.5	6
68	Maturation of hemispheric specialization for face encoding during infancy and toddlerhood. Developmental Cognitive Neuroscience, 2021, 48, 100918.	4.0	6
69	Characterization of MRI techniques to assess neonatal brain oxygenation and blood flow. NMR in Biomedicine, 2019, 32, e4103.	2.8	5
70	Evaluation of Visual-Evoked Cerebral Metabolic Rate of Oxygen as a Diagnostic Marker in Multiple Sclerosis. Brain Sciences, 2017, 7, 64.	2.3	3
71	Flattened Structural Network Changes and Association of Hyperconnectivity With Symptom Severity in 2â€“7-Year-Old Children With Autism. Frontiers in Neuroscience, 2021, 15, 757838.	2.8	2
72	Structural development of human brain white matter from mid-fetal to perinatal stage. Proceedings of SPIE, 2015, 9417, .	0.8	1

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73	Imaging baby brain development. NeuroImage, 2019, 203, 116142.	4.2	1
74	Single-direction diffusion-weighted imaging may be a simple complementary sequence for evaluating fetal corpus callosum. European Radiology, 2021, , 1.	4.5	0
75	Special considerations for acquisition of pediatric MRI of high spatial and temporal resolution. Advances in Magnetic Resonance Technology and Applications, 2021, 2, 3-18.	0.1	0
76	Imaging early brain structural and functional development. Advances in Magnetic Resonance Technology and Applications, 2021, , 395-428.	0.1	0