

Gaolang Gong

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

5,816
citations

147726

31
h-index

82499

72
g-index

105
all docs

105
docs citations

105
times ranked

7889
citing authors

#	ARTICLE	IF	CITATIONS
1	Age- and Gender-Related Differences in the Cortical Anatomical Network. <i>Journal of Neuroscience</i> , 2009, 29, 15684-15693.	1.7	595
2	PANDA: a pipeline toolbox for analyzing brain diffusion images. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 42.	1.0	583
3	Convergence and divergence of thickness correlations with diffusion connections across the human cerebral cortex. <i>NeuroImage</i> , 2012, 59, 1239-1248.	2.1	309
4	Brain Connectivity. <i>Neuroscientist</i> , 2011, 17, 575-591.	2.6	262
5	Functional and Structural Connectivity Between the Perigenual Anterior Cingulate and Amygdala in Bipolar Disorder. <i>Biological Psychiatry</i> , 2009, 66, 516-521.	0.7	243
6	The effect of machine learning regression algorithms and sample size on individualized behavioral prediction with functional connectivity features. <i>NeuroImage</i> , 2018, 178, 622-637.	2.1	241
7	Neuronal Networks in Alzheimer's Disease. <i>Neuroscientist</i> , 2009, 15, 333-350.	2.6	210
8	Understanding Structural-Functional Relationships in the Human Brain. <i>Neuroscientist</i> , 2015, 21, 290-305.	2.6	173
9	Development of Human Brain Structural Networks Through Infancy and Childhood. <i>Cerebral Cortex</i> , 2015, 25, 1389-1404.	1.6	165
10	Effects of Different Correlation Metrics and Preprocessing Factors on Small-World Brain Functional Networks: A Resting-State Functional MRI Study. <i>PLoS ONE</i> , 2012, 7, e32766.	1.1	163
11	White Matter Abnormalities in First-Episode, Treatment-Naive Young Adults With Major Depressive Disorder. <i>American Journal of Psychiatry</i> , 2007, 164, 823-826.	4.0	162
12	Age-related alterations in the modular organization of structural cortical network by using cortical thickness from MRI. <i>NeuroImage</i> , 2011, 56, 235-245.	2.1	160
13	White matter structural connectivity underlying semantic processing: evidence from brain damaged patients. <i>Brain</i> , 2013, 136, 2952-2965.	3.7	146
14	Disrupted white matter connectivity underlying developmental dyslexia: A machine learning approach. <i>Human Brain Mapping</i> , 2016, 37, 1443-1458.	1.9	143
15	Asymmetry analysis of cingulum based on scale-invariant parameterization by diffusion tensor imaging. <i>Human Brain Mapping</i> , 2005, 24, 92-98.	1.9	140
16	White matter integrity of the whole brain is disrupted in first-episode schizophrenia. <i>NeuroReport</i> , 2006, 17, 23-26.	0.6	129
17	Prefrontal white matter abnormalities in young adult with major depressive disorder: A diffusion tensor imaging study. <i>Brain Research</i> , 2007, 1168, 124-128.	1.1	115
18	Abnormal anterior cingulum integrity in bipolar disorder determined through diffusion tensor imaging. <i>British Journal of Psychiatry</i> , 2008, 193, 126-129.	1.7	102

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19	The macrostructural and microstructural abnormalities of corpus callosum in children with attention deficit/hyperactivity disorder: A combined morphometric and diffusion tensor MRI study. <i>Brain Research</i> , 2010, 1310, 172-180.	1.1	82
20	Network analysis reveals disrupted functional brain circuitry in drug-naive social anxiety disorder. <i>NeuroImage</i> , 2019, 190, 213-223.	2.1	78
21	Individualized Prediction of Reading Comprehension Ability Using Gray Matter Volume. <i>Cerebral Cortex</i> , 2018, 28, 1656-1672.	1.6	77
22	Sexual dimorphism and asymmetry in human cerebellum: An MRI-based morphometric study. <i>Brain Research</i> , 2010, 1353, 60-73.	1.1	62
23	A connectivity-based test-retest dataset of multi-modal magnetic resonance imaging in young healthy adults. <i>Scientific Data</i> , 2015, 2, 150056.	2.4	51
24	Alterations in white matter pathways underlying phonological and morphological processing in Chinese developmental dyslexia. <i>Developmental Cognitive Neuroscience</i> , 2018, 31, 11-19.	1.9	51
25	Side and handedness effects on the cingulum from diffusion tensor imaging. <i>NeuroReport</i> , 2005, 16, 1701-1705.	0.6	48
26	Atypical age-dependent effects of autism on white matter microstructure in children of 2-7 years. <i>Human Brain Mapping</i> , 2016, 37, 819-832.	1.9	46
27	Convergence and divergence across construction methods for human brain white matter networks: An assessment based on individual differences. <i>Human Brain Mapping</i> , 2015, 36, 1995-2013.	1.9	43
28	Thalamic diffusion and volumetry in temporal lobe epilepsy with and without mesial temporal sclerosis. <i>Epilepsy Research</i> , 2008, 80, 184-193.	0.8	42
29	Developmental Changes in Topological Asymmetry Between Hemispheric Brain White Matter Networks from Adolescence to Young Adulthood. <i>Cerebral Cortex</i> , 2017, 27, bhv109.	1.6	41
30	More bilateral, more anterior: Alterations of brain organization in the large-scale structural network in Chinese dyslexia. <i>NeuroImage</i> , 2016, 124, 63-74.	2.1	36
31	Size matters to function: Brain volume correlates with intrinsic brain activity across healthy individuals. <i>NeuroImage</i> , 2016, 139, 271-278.	2.1	35
32	Cortical Thinning Correlates with Cognitive Change in Multiple Sclerosis but not in Neuromyelitis Optica. <i>European Radiology</i> , 2014, 24, 2334-2343.	2.3	34
33	The White Matter Structural Network Underlying Human Tool Use and Tool Understanding. <i>Journal of Neuroscience</i> , 2015, 35, 6822-6835.	1.7	34
34	How bilingualism protects the brain from aging: Insights from bimodal bilinguals. <i>Human Brain Mapping</i> , 2017, 38, 4109-4124.	1.9	33
35	Identify aberrant white matter microstructure in ASD, ADHD and other neurodevelopmental disorders: A meta-analysis of diffusion tensor imaging studies. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2022, 113, 110477.	2.5	32
36	The semantic anatomical network: Evidence from healthy and brain-damaged patient populations. <i>Human Brain Mapping</i> , 2015, 36, 3499-3515.	1.9	31

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37	Local Diffusion Homogeneity (LDH): An Inter-Voxel Diffusion MRI Metric for Assessing Inter-Subject White Matter Variability. <i>PLoS ONE</i> , 2013, 8, e66366.	1.1	30
38	Aberrant development of the asymmetry between hemispheric brain white matter networks in autism spectrum disorder. <i>European Neuropsychopharmacology</i> , 2018, 28, 48-62.	0.3	30
39	The consequence of cerebral small vessel disease: Linking brain atrophy to motor impairment in the elderly. <i>Human Brain Mapping</i> , 2018, 39, 4452-4461.	1.9	30
40	Sex-related human brain asymmetry in hemispheric functional gradients. <i>NeuroImage</i> , 2021, 229, 117761.	2.1	29
41	A significant risk factor for poststroke depression: the depression-related subnetwork. <i>Journal of Psychiatry and Neuroscience</i> , 2015, 40, 259-268.	1.4	29
42	Facial expression recognition: A meta-analytic review of theoretical models and neuroimaging evidence. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 127, 820-836.	2.9	27
43	Identification of Amnesic Mild Cognitive Impairment Using Multi-Modal Brain Features: A Combined Structural MRI and Diffusion Tensor Imaging Study. <i>Journal of Alzheimer's Disease</i> , 2015, 47, 509-522.	1.2	26
44	Differences of inter-tract correlations between neonates and children around puberty: a study based on microstructural measurements with DTI. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 721.	1.0	24
45	A seed-based cross-modal comparison of brain connectivity measures. <i>Brain Structure and Function</i> , 2017, 222, 1131-1151.	1.2	24
46	Connectional asymmetry of the inferior parietal lobule shapes hemispheric specialization in humans, chimpanzees, and rhesus macaques. <i>ELife</i> , 2021, 10, .	2.8	23
47	Mapping the effect of the X chromosome on the human brain: Neuroimaging evidence from Turner syndrome. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 80, 263-275.	2.9	23
48	A Hybrid CPU-GPU Accelerated Framework for Fast Mapping of High-Resolution Human Brain Connectome. <i>PLoS ONE</i> , 2013, 8, e62789.	1.1	22
49	White matter pathway supporting phonological encoding in speech production: a multi-modal imaging study of brain damage patients. <i>Brain Structure and Function</i> , 2016, 221, 577-589.	1.2	22
50	Vocabulary growth rate from preschool to school-age years is reflected in the connectivity of the arcuate fasciculus in 14-year-old children. <i>Developmental Science</i> , 2018, 21, e12647.	1.3	21
51	The Effects of an <i>APOE</i> Promoter Polymorphism on Human Cortical Morphology during Nondemented Aging. <i>Journal of Neuroscience</i> , 2015, 35, 1423-1431.	1.7	19
52	Neural correlates of oral word reading, silent reading comprehension, and cognitive subcomponents. <i>International Journal of Behavioral Development</i> , 2018, 42, 342-356.	1.3	19
53	Semantic representation in the white matter pathway. <i>PLoS Biology</i> , 2018, 16, e2003993.	2.6	19
54	White Matter Deficits Underlying the Impaired Consciousness Level in Patients with Disorders of Consciousness. <i>Neuroscience Bulletin</i> , 2018, 34, 668-678.	1.5	19

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55	Insights into the sequence of structural consequences of convulsive status epilepticus: A longitudinal MRI study. <i>Epilepsia</i> , 2008, 49, 1941-1945.	2.6	18
56	Aberrant White Matter Networks Mediate Cognitive Impairment in Patients with Silent Lacunar Infarcts in Basal Ganglia Territory. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1426-1434.	2.4	18
57	Precuneus degeneration in nondemented elderly individuals with <i>APOE</i> ϵ 4: Evidence from structural and functional MRI analyses. <i>Human Brain Mapping</i> , 2017, 38, 271-282.	1.9	18
58	Mapping Convergent and Divergent Cortical Thinning Patterns in Patients With Deficit and Nondeficit Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 211-221.	2.3	18
59	Altered brain white matter connectome in children and adolescents with prenatal alcohol exposure. <i>Brain Structure and Function</i> , 2020, 225, 1123-1133.	1.2	18
60	How does white matter microstructure differ between the vascular and amnesic mild cognitive impairment?. <i>Oncotarget</i> , 2017, 8, 42-50.	0.8	18
61	Functional Integration Between the Two Brain Hemispheres: Evidence From the Homotopic Functional Connectivity Under Resting State. <i>Frontiers in Neuroscience</i> , 2020, 14, 932.	1.4	17
62	The Effects of the X Chromosome on Intrinsic Functional Connectivity in the Human Brain: Evidence from Turner Syndrome Patients. <i>Cerebral Cortex</i> , 2015, 27, bhv240.	1.6	16
63	Domain Selectivity in the Parahippocampal Gyrus Is Predicted by the Same Structural Connectivity Patterns in Blind and Sighted Individuals. <i>Journal of Neuroscience</i> , 2017, 37, 4705-4716.	1.7	16
64	Activation network mapping for integration of heterogeneous fMRI findings. <i>Nature Human Behaviour</i> , 2022, 6, 1417-1429.	6.2	16
65	The Papez Circuit in First-Episode, Treatment-Naive Adults with Major Depressive Disorder: Combined Atlas-Based Tract-Specific Quantification Analysis and Voxel-Based Analysis. <i>PLoS ONE</i> , 2015, 10, e0126673.	1.1	14
66	Individualized Cortical Parcellation Based on Diffusion MRI Tractography. <i>Cerebral Cortex</i> , 2020, 30, 3198-3208.	1.6	14
67	Influences of the early family environment and long-term vocabulary development on the structure of white matter pathways: A longitudinal investigation. <i>Developmental Cognitive Neuroscience</i> , 2020, 42, 100767.	1.9	14
68	Neurobiological commonalities and distinctions among 3 major psychiatric disorders: a graph theoretical analysis of the structural connectome. <i>Journal of Psychiatry and Neuroscience</i> , 2020, 45, 15-22.	1.4	14
69	<i>ROBO1</i> polymorphisms, callosal connectivity, and reading skills. <i>Human Brain Mapping</i> , 2017, 38, 2616-2626.	1.9	13
70	Decreased Gray-Matter Volume in Insular Cortex as a Correlate of Singers' Enhanced Sensorimotor Control of Vocal Production. <i>Frontiers in Neuroscience</i> , 2019, 13, 815.	1.4	13
71	Abnormal topological organization of the white matter network in Mandarin speakers with congenital amusia. <i>Scientific Reports</i> , 2016, 6, 26505.	1.6	12
72	Hemispheric Module-Specific Influence of the X Chromosome on White Matter Connectivity: Evidence from Girls with Turner Syndrome. <i>Cerebral Cortex</i> , 2019, 29, 4580-4594.	1.6	12

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73	Handedness-related functional connectivity using low-frequency blood oxygenation level-dependent fluctuations. <i>NeuroReport</i> , 2006, 17, 5-8.	0.6	11
74	Anomalous diffusion in cerebral glioma assessed using a fractional motion model. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1944-1949.	1.9	11
75	The lateralized arcuate fasciculus in developmental pitch disorders among mandarin amusics: left for speech and right for music. <i>Brain Structure and Function</i> , 2018, 223, 2013-2024.	1.2	11
76	Hypothalamic subregion abnormalities are related to body mass index in patients with sporadic amyotrophic lateral sclerosis. <i>Journal of Neurology</i> , 2022, 269, 2980-2988.	1.8	11
77	Common and unique structural plasticity after left and right hemisphere stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 3350-3364.	2.4	10
78	Cognitive impairment and gray/white matter volume abnormalities in pediatric patients with Turner syndrome presenting with various karyotypes. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2013, 26, 1111-21.	0.4	9
79	The Effects of X Chromosome Loss on Neuroanatomical and Cognitive Phenotypes During Adolescence: a Multi-modal Structural MRI and Diffusion Tensor Imaging Study. <i>Cerebral Cortex</i> , 2015, 25, 2842-2853.	1.6	9
80	White-Matter Structural Connectivity Underlying Human Laughter-Related Traits Processing. <i>Frontiers in Psychology</i> , 2016, 7, 1637.	1.1	9
81	Callosal Fiber Length Scales with Brain Size According to Functional Lateralization, Evolution, and Development. <i>Journal of Neuroscience</i> , 2022, 42, 3599-3610.	1.7	9
82	Increased Global and Local Efficiency of Human Brain Anatomical Networks Detected with FLAIR-DTI Compared to Non-FLAIR-DTI. <i>PLoS ONE</i> , 2013, 8, e71229.	1.1	8
83	Parallel workflow tools to facilitate human brain MRI post-processing. <i>Frontiers in Neuroscience</i> , 2015, 9, 171.	1.4	8
84	Interhemispheric Relationship of Genetic Influence on Human Brain Connectivity. <i>Cerebral Cortex</i> , 2021, 31, 77-88.	1.6	8
85	Surface Morphology of Amygdala Is Associated with Trait Anxiety. <i>PLoS ONE</i> , 2012, 7, e47817.	1.1	7
86	Probabilistic Brain Fiber Tractography on GPUs. , 2012, , .		6
87	Directional sensitivity of anomalous diffusion in human brain assessed by tensorial fractional motion model. <i>Magnetic Resonance Imaging</i> , 2017, 42, 74-81.	1.0	6
88	Connectivity of the ventral visual cortex is necessary for object recognition in patients. <i>Human Brain Mapping</i> , 2018, 39, 2786-2799.	1.9	6
89	Effects of hypogonadism on brain development during adolescence in girls with Turner syndrome. <i>Human Brain Mapping</i> , 2019, 40, 4901-4911.	1.9	6
90	Cerebral Microbleeds Correlated with White Matter and Hippocampal Volumes in Community-Dwelling Populations. <i>Journal of Alzheimer's Disease</i> , 2019, 71, 559-567.	1.2	6

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91	Structural properties of corpus callosum are associated differently with verbal creativity and visual creativity. <i>Brain Structure and Function</i> , 2021, 226, 2511-2521.	1.2	6
92	Hippocampal subfield and anterior-posterior segment volumes in patients with sporadic amyotrophic lateral sclerosis. <i>NeuroImage: Clinical</i> , 2021, 32, 102816.	1.4	6
93	White Matter but not Gray Matter Volumes Are Associated with Cognition in Community-Dwelling Chinese Populations. <i>Journal of Alzheimer's Disease</i> , 2021, 84, 367-375.	1.2	6
94	Alterations in Cortical Thickness in Young Male Patients With Childhood-Onset Adult Growth Hormone Deficiency: A Morphometric MRI Study. <i>Frontiers in Neuroscience</i> , 2019, 13, 1134.	1.4	5
95	<p>Why Do Most Restrained Eaters Fail in Losing Weight?: Evidence from an fMRI Study</p>. <i>Psychology Research and Behavior Management</i> , 2019, Volume 12, 1127-1136.	1.3	5
96	Resting state differences between successful and unsuccessful restrained eaters. <i>Brain Imaging and Behavior</i> , 2021, 15, 906-916.	1.1	5
97	Associations between hemispheric asymmetry and schizophrenia-related risk genes in people with schizophrenia and people at a genetic high risk of schizophrenia. <i>British Journal of Psychiatry</i> , 2021, 219, 392-400.	1.7	5
98	Characterizing the hyperâ€and hypometabolism in temporal lobe epilepsy using multivariate machine learning. <i>Journal of Neuroscience Research</i> , 2021, 99, 3035-3046.	1.3	5
99	Isolated febrile seizures are not associated with structural abnormalities of the limbic system. <i>Epilepsy Research</i> , 2012, 102, 216-220.	0.8	4
100	Anisotropy of anomalous diffusion improves the accuracy of differentiating low- and high-grade cerebral gliomas. <i>Magnetic Resonance Imaging</i> , 2018, 51, 14-19.	1.0	3
101	Neuroimaging Anomalies in Community-Dwelling Asymptomatic Adults With Very Early-Stage White Matter Hyperintensity. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 715434.	1.7	3
102	P4-333: How Does White Matter Connectivity Differ Between Vascular and Degenerative Pre-Dementia?. , 2016, 12, P1162-P1162.		0
103	Inside Back Cover: Cover Image, Volume 21, Issue 5. <i>Developmental Science</i> , 2018, 21, e12732.	1.3	0