Xi-Nian Zuo

List of Publications by Citations

158 papers	20,679 citations	60 h-index	143 g-index
195 ext. papers	26,729 ext. citations	6.1 avg, IF	6.9 L-index

#	Paper	IF	Citations
158	Toward discovery science of human brain function. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 4734-9	11.5	2183
157	REST: a toolkit for resting-state functional magnetic resonance imaging data processing. *PLoS ONE*, **2011**, 6, e25031	3.7	1473
156	DPABI: Data Processing & Analysis for (Resting-State) Brain Imaging. *Neuroinformatics*, **2016**, 14, 339-51	3.2	1336
155	An improved approach to detection of amplitude of low-frequency fluctuation (ALFF) for resting-state fMRI: fractional ALFF. *Journal of Neuroscience Methods*, **2008**, 172, 137-41	3	1074
154	A comprehensive assessment of regional variation in the impact of head micromovements on functional connectomics. *NeuroImage*, **2013**, 76, 183-201	7.9	1016
153	The oscillating brain: complex and reliable. *NeuroImage*, **2010**, 49, 1432-45	7.9	911
152	Network centrality in the human functional connectome. *Cerebral Cortex*, **2012**, 22, 1862-75	5.1	715
151	Local-Global Parcellation of the Human Cerebral Cortex from Intrinsic Functional Connectivity MRI. *Cerebral Cortex*, **2018**, 28, 3095-3114	5.1	687
150	Reliable intrinsic connectivity networks: test-retest evaluation using ICA and dual regression approach. *NeuroImage*, **2010**, 49, 2163-77	7.9	593
149	Growing together and growing apart: regional and sex differences in the lifespan developmental trajectories of functional homotopy. *Journal of Neuroscience*, **2010**, 30, 15034-43	6.6	464
148	Changes in structural and functional connectivity among resting-state networks across the human lifespan. *NeuroImage*, **2014**, 102 Pt 2, 345-57	7.9	449
147	Test-retest reliabilities of resting-state FMRI measurements in human brain functional connectomics: a systems neuroscience perspective. *Neuroscience and Biobehavioral Reviews*, **2014**, 45, 100-18	9	405
146	Graph-based network analysis of resting-state functional MRI. *Frontiers in Systems Neuroscience*, **2010**, 4, 16	3.5	350
145	Amplitude of low-frequency oscillations in schizophrenia: a resting state fMRI study. *Schizophrenia Research*, **2010**, 117, 13-20	3.6	349
144	Aberrant striatal functional connectivity in children with autism. *Biological Psychiatry*, **2011**, 69, 847-56	7.9	328
143	Toward reliable characterization of functional homogeneity in the human brain: preprocessing, scan duration, imaging resolution and computational space. *NeuroImage*, **2013**, 65, 374-86	7.9	325
142	Standardizing the intrinsic brain: towards robust measurement of inter-individual variation in 1000 functional connectomes. *NeuroImage*, **2013**, 80, 246-62	7.9	296

141	Disrupted functional brain connectome in individuals at risk for Alzheimer's disease. *Biological Psychiatry*, **2013**, 73, 472-81	7.9	293
140	Inter-individual differences in resting-state functional connectivity predict task-induced BOLD activity. *NeuroImage*, **2010**, 50, 1690-701	7.9	281
139	Topological organization of the human brain functional connectome across the lifespan. *Developmental Cognitive Neuroscience*, **2014**, 7, 76-93	5.5	261
138	Graph theoretical analysis of functional brain networks: test-retest evaluation on short- and long-term resting-state functional MRI data. *PLoS ONE*, **2011**, 6, e21976	3.7	252
137	An open science resource for establishing reliability and reproducibility in functional connectomics. *Scientific Data*, **2014**, 1, 140049	8.2	247
136	Spontaneous brain activity in the default mode network is sensitive to different resting-state conditions with limited cognitive load. *PLoS ONE*, **2009**, 4, e5743	3.7	241
135	Unraveling the miswired connectome: a developmental perspective. *Neuron*, **2014**, 83, 1335-53	13.9	232
134	Spatial Topography of Individual-Specific Cortical Networks Predicts Human Cognition, Personality, and Emotion. *Cerebral Cortex*, **2019**, 29, 2533-2551	5.1	227
133	Personality is reflected in the brain's intrinsic functional architecture. *PLoS ONE*, **2011**, 6, e27633	3.7	217
132	Shared and distinct intrinsic functional network centrality in autism and attention-deficit/hyperactivity disorder. *Biological Psychiatry*, **2013**, 74, 623-32	7.9	211
131	Resting-state functional connectivity indexes reading competence in children and adults. *Journal of Neuroscience*, **2011**, 31, 8617-24	6.6	198
130	Generative models of the human connectome. *NeuroImage*, **2016**, 124, 1054-1064	7.9	180
129	Reduced interhemispheric resting state functional connectivity in cocaine addiction. *Biological Psychiatry*, **2011**, 69, 684-92	7.9	178
128	Dynamic fluctuations coincide with periods of high and low modularity in resting-state functional brain networks. *NeuroImage*, **2016**, 127, 287-297	7.9	170
127	Reduced default mode network functional connectivity in patients with recurrent major depressive disorder. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 9078-9083	11.5	168
126	Linking inter-individual differences in neural activation and behavior to intrinsic brain dynamics. *NeuroImage*, **2011**, 54, 2950-9	7.9	165
125	Abnormal resting-state functional connectivity patterns of the putamen in medication-naïve children with attention deficit hyperactivity disorder. *Brain Research*, **2009**, 1303, 195-206	3.7	156
124	Intrinsic resting-state activity predicts working memory brain activation and behavioral performance. *Human Brain Mapping*, **2013**, 34, 3204-15	5.9	152

105	Genetic and Environmental Contributions to Functional Connectivity Architecture of the Human Brain. *Cerebral Cortex*, **2016**, 26, 2341-2352	5.1	70
104	Longitudinal test-retest neuroimaging data from healthy young adults in southwest China. *Scientific Data*, **2017**, 4, 170017	8.2	64
103	Eyes-open/eyes-closed dataset sharing for reproducibility evaluation of resting state fMRI data analysis methods. *Neuroinformatics*, **2013**, 11, 469-76	3.2	64
102	Hemispheric asymmetry in cognitive division of anterior cingulate cortex: a resting-state functional connectivity study. *NeuroImage*, **2009**, 47, 1579-89	7.9	63
101	Structure-function relationships during segregated and integrated network states of human brain functional connectivity. *Brain Structure and Function*, **2018**, 223, 1091-1106	4	62
100	Characterization of thalamo-cortical association using amplitude and connectivity of functional MRI in mild traumatic brain injury. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 1558-68	5.6	61
99	Assessing Variations in Areal Organization for the Intrinsic Brain: From Fingerprints to Reliability. *Cerebral Cortex*, **2016**, 26, 4192-4211	5.1	60
98	Tai Chi Chuan optimizes the functional organization of the intrinsic human brain architecture in older adults. *Frontiers in Aging Neuroscience*, **2014**, 6, 74	5.3	54
97	Resting-state brain organization revealed by functional covariance networks. *PLoS ONE*, **2011**, 6, e28817	3.7	54
96	Assessment of the impact of shared brain imaging data on the scientific literature. *Nature Communications*, **2018**, 9, 2818	17.4	53
95	Individual differences in verbal creative thinking are reflected in the precuneus. *Neuropsychologia*, **2015**, 75, 441-9	3.2	49
94	Homotopic connectivity in drug-naïve, first-episode, early-onset schizophrenia. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, **2015**, 56, 432-43	7.9	49
93	Concordance among indices of intrinsic brain function: Insights from inter-individual variation and temporal dynamics. *Science Bulletin*, **2017**, 62, 1572-1584	10.6	48
92	Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. *NeuroImage*, **2010**, 51, 1414-24	7.9	47
91	Effects of non-local diffusion on structural MRI preprocessing and default network mapping: statistical comparisons with isotropic/anisotropic diffusion. *PLoS ONE*, **2011**, 6, e26703	3.7	46
90	Weighted Stochastic Block Models of the Human Connectome across the Life Span. *Scientific Reports*, **2018**, 8, 12997	4.9	44
89	Short-term test-retest reliability of resting state fMRI metrics in children with and without attention-deficit/hyperactivity disorder. *Developmental Cognitive Neuroscience*, **2015**, 15, 83-93	5.5	41
88	Brain network informed subject community detection in early-onset schizophrenia. *Scientific Reports*, **2014**, 4, 5549	4.9	40

87	Default network connectivity as a vulnerability marker for obsessive compulsive disorder. *Psychological Medicine*, **2014**, 44, 1475-84	6.9	39
86	Local functional connectivity alterations in schizophrenia, bipolar disorder, and major depressive disorder. *Journal of Affective Disorders*, **2018**, 236, 266-273	6.6	38
85	Fluctuations between high- and low-modularity topology in time-resolved functional connectivity. *NeuroImage*, **2018**, 180, 406-416	7.9	38
84	The anatomy of reliability: a must read for future human brain mapping. *Science Bulletin*, **2018**, 63, 1606-1607	16.6	36
83	Altered brain functional connectivity in hemodialysis patients with end-stage renal disease: a resting-state functional MR imaging study. *Metabolic Brain Disease*, **2014**, 29, 777-86	3.9	33
82	Generalized RAICAR: discover homogeneous subject (sub)groups by reproducibility of their intrinsic connectivity networks. *NeuroImage*, **2012**, 63, 403-14	7.9	33
81	Functional homotopic changes in multiple sclerosis with resting-state functional MR imaging. *American Journal of Neuroradiology*, **2013**, 34, 1180-7	4.4	33
80	Network-Based Asymmetry of the Human Auditory System. *Cerebral Cortex*, **2018**, 28, 2655-2664	5.1	32
79	Ventral medial prefrontal functional connectivity and emotion regulation in chronic schizophrenia: a pilot study. *Neuroscience Bulletin*, **2013**, 29, 59-74	4.3	31
78	Lifespan anxiety is reflected in human amygdala cortical connectivity. *Human Brain Mapping*, **2016**, 37, 1178-93	5.9	29
77	PDE-based spatial smoothing: a practical demonstration of impacts on MRI brain extraction, tissue segmentation and registration. *Magnetic Resonance Imaging*, **2011**, 29, 731-8	3.3	28
76	Reconfiguration of Cortical Networks in MDD Uncovered by Multiscale Community Detection with fMRI. *Cerebral Cortex*, **2018**, 28, 1383-1395	5.1	27
75	Charting brain growth in tandem with brain templates at school age. *Science Bulletin*, **2020**, 65, 1924-1934	16.6	27
74	Amygdala volume predicts inter-individual differences in fearful face recognition. *PLoS ONE*, **2013**, 8, e74096	3.7	24
73	Examination of Local Functional Homogeneity in Autism. *BioMed Research International*, **2015**, 2015, 174371	3	22
72	Mind-Body Practice Changes Fractional Amplitude of Low Frequency Fluctuations in Intrinsic Control Networks. *Frontiers in Psychology*, **2017**, 8, 1049	3.4	19
71	Local-Global Parcellation of the Human Cerebral Cortex From Intrinsic Functional Connectivity MRI		19
70	Surface-based regional homogeneity in first-episode, drug-naïve major depression: a resting-state FMRI study. *BioMed Research International*, **2014**, 2014, 374828	3	18

69	Capturing amplitude changes of low-frequency fluctuations in functional magnetic resonance imaging signal: a pilot acupuncture study on NeiGuan (PC6). *Journal of Alternative and Complementary Medicine*, **2012**, 18, 387-93	2.4	18
68	Sample sizes and population differences in brain template construction. *NeuroImage*, **2020**, 206, 116318	7.9	18
67	Anxiety correlates with cortical surface area in subjective cognitive decline: APOE ε4 carriers versus APOE ε4 non-carriers. *Alzheimer's Research and Therapy*, **2019**, 11, 50	9	16
66	Hyper-coupling between working memory task-evoked activations and amplitude of spontaneous fluctuations in first-episode schizophrenia. *Schizophrenia Research*, **2014**, 159, 80-9	3.6	16
65	Functional Connectivity Changes Across the Spectrum of Subjective Cognitive Decline, Amnestic Mild Cognitive Impairment and Alzheimer's Disease. *Frontiers in Neuroinformatics*, **2019**, 13, 26	3.9	15
64	Tai Chi Chuan modulates heart rate variability during abdominal breathing in elderly adults. *PsyCh Journal*, **2016**, 5, 69-77	1.4	15
63	Brain charts for the human lifespan.. *Nature*, **2022**,	50.4	15
62	Spontaneous low-frequency fluctuations in the neural system for emotional perception in major psychiatric disorders: amplitude similarities and differences across frequency bands. *Journal of Psychiatry and Neuroscience*, **2019**, 44, 132-141	4.5	14
61	Shifting gradients of macroscale cortical organization mark the transition from childhood to adolescence. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	14
60	Individual-Specific Areal-Level Parcellations Improve Functional Connectivity Prediction of Behavior. *Cerebral Cortex*, **2021**, 31, 4477-4500	5.1	13
59	Quantile rank maps: a new tool for understanding individual brain development. *NeuroImage*, **2015**, 111, 454-63	7.9	12
58	Distinct BOLD variability changes in the default mode and salience networks in Alzheimer's disease spectrum and associations with cognitive decline. *Scientific Reports*, **2020**, 10, 6457	4.9	12
57	Local-to-remote cortical connectivity in amnestic mild cognitive impairment. *Neurobiology of Aging*, **2017**, 56, 138-149	5.6	11
56	CHIMGEN: a Chinese imaging genetics cohort to enhance cross-ethnic and cross-geographic brain research. *Molecular Psychiatry*, **2020**, 25, 517-529	15.1	11
55	A High-Throughput Pipeline Identifies Robust Connectomes But Troublesome Variability		10
54	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. *Neuron*, **2021**, 109, 1769-1775	13.9	10
53	Age-Related Cognitive Effects of Videogame Playing Across the Adult Life span. *Games for Health Journal*, **2017**, 6, 237-248	4.2	9
52	Segregated precuneus network and default mode network in naturalistic imaging. *Brain Structure and Function*, **2019**, 224, 3133-3144	4	8

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51	Surface-based regional homogeneity in bipolar disorder: A resting-state fMRI study. *Psychiatry Research*, **2019**, 278, 199-204	9.9	8
50	Functional Connectome Analyses Reveal the Human Olfactory Network Organization. *ENeuro*, **2020**, 7,	3.9	8
49	Chinese Color Nest Project : An accelerated longitudinal brain-mind cohort. *Developmental Cognitive Neuroscience*, **2021**, 52, 101020	5.5	8
48	Eliminating accidental deviations to minimize generalization error and maximize replicability: applications in connectomics and genomics		8
47	Brain charts for the human lifespan		8
46	Uncovering cortical activations of discourse comprehension and their overlaps with common large-scale neural networks. *NeuroImage*, **2019**, 203, 116200	7.9	7
45	Brain structure-function associations identified in large-scale neuroimaging data. *Brain Structure and Function*, **2016**, 221, 4459-4474	4	7
44	Functional fractionation of default mode network in first episode schizophrenia. *Schizophrenia Research*, **2019**, 210, 115-121	3.6	7
43	Dorsal anterior cingulate cortex in typically developing children: Laterality analysis. *Developmental Cognitive Neuroscience*, **2015**, 15, 117-29	5.5	7
42	Spatial Topography of Individual-Specific Cortical Networks Predicts Human Cognition, Personality and Emotion		7
41	Reliability map of individual differences reflected in inter-subject correlation in naturalistic imaging. *NeuroImage*, **2020**, 223, 117277	7.9	7
40	Biotypes of major depressive disorder: Neuroimaging evidence from resting-state default mode network patterns. *NeuroImage: Clinical*, **2020**, 28, 102514	5.3	7
39	DREAM : A Toolbox to Decode Rhythms of the Brain System. *Neuroinformatics*, **2021**, 19, 529-545	3.2	7
38	Homotopic Connectivity in Early Pontine Infarction Predicts Late Motor Recovery. *Frontiers in Neurology*, **2018**, 9, 907	4.1	7
37	OFC and its connectivity with amygdala as predictors for future social anxiety in adolescents. *Developmental Cognitive Neuroscience*, **2020**, 44, 100804	5.5	6
36	Individual-Specific Areal-Level Parcellations Improve Functional Connectivity Prediction of Behavior		6
35	Extracting information from functional connectivity maps via function-on-scalar regression. *NeuroImage*, **2011**, 56, 140-8	7.9	5
34	Segregation between the parietal memory network and the default mode network: effects of spatial smoothing and model order in ICA. *Science Bulletin*, **2016**, 61, 1844-1854	10.6	5

33	Disrupted intrinsic functional brain topology in patients with major depressive disorder. *Molecular Psychiatry*, **2021**,	15.1	5
32	Eliminating accidental deviations to minimize generalization error and maximize replicability: Applications in connectomics and genomics. *PLoS Computational Biology*, **2021**, 17, e1009279	5	5
31	Small P values may not yield robust findings: an example using REST-meta-PD. *Science Bulletin*, **2021**, 66, 2148-2152	10.6	5
30	Children's theory of mind development: Cultural perspectives. *Chinese Science Bulletin*, **2019**, 64, 384-392	2.9	4
29	Cohort Profile: Chinese Color Nest Project		4
28	Genetic overlap between in-scanner head motion and the default network connectivity		4
27	Brain structural alterations in MDD patients with gastrointestinal symptoms: Evidence from the REST-meta-MDD project. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2021**, 111, 110386	5.5	4
26	The association between the brain and mind pops: a voxel-based morphometry study in 256 Chinese college students. *Brain Imaging and Behavior*, **2016**, 10, 332-41	4.1	3
25	Effects of apolipoprotein E genotype on the off-line memory consolidation. *PLoS ONE*, **2012**, 7, e51617	3.7	3
24	DREAM: A Toolbox to Decode Rhythms of the Brain System		3
23	Toward Reliable Network Neuroscience for Mapping Individual Differences		3
22	Beyond psychology: prevalence of p value and confidence interval misinterpretation across different fields. *Journal of Pacific Rim Psychology*, **2020**, 14, e6	1.2	2
21	Developmental population neuroscience: emerging from ICHBD. *Science Bulletin*, **2018**, 63, 331-332	10.6	2
20	Charting the human amygdala development across childhood and adolescence: Manual and automatic segmentation. *Developmental Cognitive Neuroscience*, **2021**, 52, 101028	5.5	2
19	Assessing Variations in Areal Organization for the Intrinsic Brain: From Fingerprints to Reliability		2
18	Small effect size leads to reproducibility failure in resting-state fMRI studies		2
17	Antipsychotic ffects on ortical Morphology in chizophrenia and ipolar isorders. *Frontiers in Neuroscience*, **2020**, 14, 579139	5.1	2
16	Open science as a better gatekeeper for science and society: a perspective from neurolaw. *Science Bulletin*, **2018**, 63, 1529-1531	10.6	2

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15	Connecting Openness and the Resting-State Brain Network: A Discover-Validate Approach. *Frontiers in Neuroscience*, **2018**, 12, 762	5.1	2
14	ISDN2014_0097: REMOVED: Age-related changes in the topological organization of white matter structural networks across the human lifespan. *International Journal of Developmental Neuroscience*, **2015**, 47, 26-27	2.7	1
13	Characterization of thalamo-cortical association using amplitude and connectivity of functional MRI in mild traumatic brain injury. *Journal of Magnetic Resonance Imaging*, **2014**, 39, spcone-spcone	5.6	1
12	A feature-oriented forward-backward diffusion model for intensity image restoration based on level set motion. *International Journal of Computer Mathematics*, **2009**, 86, 2072-2094	1.2	1
11	Connectome Computation System: 2015-2021 updates. *Science Bulletin*, **2021**, 67, 448-448	10.6	1
10	Generating Templates and Growth Charts for School-Aged Brain Development		1
9	Global urbanicity is associated with brain and behaviour in young people. *Nature Human Behaviour*, **2021**,	12.8	1
8	Shifting gradients of macroscale cortical organization mark the transition from childhood to adolescence		1
7	FMRI multi-scale cortical spontaneous activity: 7T vs. 3T		1
6	Transcranial brain atlas for school-aged children and adolescents. *Brain Stimulation*, **2021**, 14, 895-905	5.1	1
5	Reliability and validity of bifactor models of dimensional psychopathology in youth. **2022**, 131, 407-421		1
4	Neuroimaging brain growth charts: A road to mental health.. *Psychoradiology*, **2021**, 1, 272-286		0
3	Growth charts of brain morphometry for preschool children.. *NeuroImage*, **2022**, 119178	7.9	0
2	Functional brain network mapping with dual regression. *Science China Life Sciences*, **2017**, 60, 1450-1452	8.5	
1	Effect of Phase-Encoding Direction on Gender Differences: A Resting-State Functional Magnetic Resonance Imaging Study.. *Frontiers in Neuroscience*, **2021**, 15, 748080	5.1	