Juan Zhou

List of Publications by Year
in descending order

113 papers	8,606 citations	87888 38 h-index	49909 87 g-index
125 all docs	125 docs citations	125 times ranked	11925 citing authors

#	Article	IF	Citations
1	Neurodegenerative Diseases Target Large-Scale Human Brain Networks. Neuron, 2009, 62, 42-52.	8.1	1,994
2	Divergent network connectivity changes in behavioural variant frontotemporal dementia and Alzheimerâ€™s disease. Brain, 2010, 133, 1352-1367.	7.6	876
3	Predicting Regional Neurodegeneration from the Healthy Brain Functional Connectome. Neuron, 2012, 73, 1216-1227.	8.1	605
4	The genetic architecture of the human cerebral cortex. Science, 2020, 367, .	12.6	450
5	Network-level structural covariance in the developing brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18191-18196.	7.1	362
6	One-year testâ€“retest reliability of intrinsic connectivity network fMRI in older adults. NeuroImage, 2012, 61, 1471-1483.	4.2	254
7	Interpreting temporal fluctuations in resting-state functional connectivity MRI. NeuroImage, 2017, 163, 437-455.	4.2	234
8	Gender Modulates the APOE Â4 Effect in Healthy Older Adults: Convergent Evidence from Functional Brain Connectivity and Spinal Fluid Tau Levels. Journal of Neuroscience, 2012, 32, 8254-8262.	3.6	222
9	Network Dysfunction in Alzheimerâ€™s Disease and Frontotemporal Dementia: Implications for Psychiatry. Biological Psychiatry, 2014, 75, 565-573.	1.3	194
10	Reduced functional segregation between the default mode network and the executive control network in healthy older adults: A longitudinal study. NeuroImage, 2016, 133, 321-330.	4.2	188
11	Spontaneous eyelid closures link vigilance fluctuation with fMRI dynamic connectivity states. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9653-9658.	7.1	182
12	Progression from selective to general involvement of hippocampal subfields in schizophrenia. Molecular Psychiatry, 2017, 22, 142-152.	7.9	123
13	Learning effective brain connectivity with dynamic Bayesian networks. NeuroImage, 2007, 37, 749-760.	4.2	122
14	White Matter Alterations at 33-Year Follow-Up in Adults with Childhood Attention-Deficit/Hyperactivity Disorder. Biological Psychiatry, 2013, 74, 591-598.	1.3	114
15	Frontotemporal Dementia. Neuroscientist, 2012, 18, 373-385.	3.5	113
16	Dominant hemisphere lateralization of cortical parasympathetic control as revealed by frontotemporal dementia. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2430-9.	7.1	105
17	Measuring Cortical Connectivity in Alzheimerâ€™s Disease as a Brain Neural Network Pathology: Toward Clinical Applications. Journal of the International Neuropsychological Society, 2016, 22, 138-163.	1.8	92
18	Intrinsic connectivity network disruption in progressive supranuclear palsy. Annals of Neurology, 2013, 73, 603-616.	5.3	88

#	Article	IF	Citations
19	Salience network connectivity in the insula is associated with individual differences in interoceptive accuracy. Brain Structure and Function, 2017, 222, 1635-1644.	2.3	76
20	Association of Structural Magnetic Resonance Imaging Measures With Psychosis Onset in Individuals at Clinical High Risk for Developing Psychosis. JAMA Psychiatry, 2021, 78, 753.	11.0	74
21	Distinct white matter microstructural abnormalities and extracellular water increases relate to cognitive impairment in Alzheimerâ€™s disease with and without cerebrovascular disease. Alzheimer's Research and Therapy, 2017, 9, 63.	6.2	70
22	Longitudinal Changes in the Cerebral Cortex Functional Organization of Healthy Elderly. Journal of Neuroscience, 2019, 39, 5534-5550.	3.6	70
23	Neurobiological Divergence of the Positive and Negative Schizophrenia Subtypes Identified on a New Factor Structure of Psychopathology Using Non-negative Factorization: An International Machine Learning Study. Biological Psychiatry, 2020, 87, 282-293.	1.3	68
24	Progressive Decline in Hippocampal CA1 Volume in Individuals at Ultra-High-Risk for Psychosis Who Do Not Remit: Findings from the Longitudinal Youth at Risk Study. Neuropsychopharmacology, 2017, 42, 1361-1370.	5.4	67
25	Network Architecture Underlying Basal Autonomic Outflow: Evidence from Frontotemporal Dementia. Journal of Neuroscience, 2018, 38, 8943-8955.	3.6	66
26	Differential Development of Human Brain White Matter Tracts. PLoS ONE, 2011, 6, e23437.	2.5	64
27	Disrupted salience network functional connectivity and white-matter microstructure in persons at risk for psychosis: findings from the LYRIKS study. Psychological Medicine, 2016, 46, 2771-2783.	4.5	62
28	Large-scale brain functional network topology disruptions underlie symptom heterogeneity in children with attention-deficit/hyperactivity disorder. NeuroImage: Clinical, 2019, 21, 101600.	2.7	61
29	Segmentation of subcortical brain structures using fuzzy templates. NeuroImage, 2005, 28, 915-924.	4.2	58
30	Cognitive deficits in mild Parkinson's disease are associated with distinct areas of grey matter atrophy. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 576-580.	1.9	58
31	Differential age-dependent associations of gray matter volume and white matter integrity with processing speed in healthy older adults. NeuroImage, 2015, 123, 42-50.	4.2	56
32	Individual-specific fMRI-Subspaces improve functional connectivity prediction of behavior. NeuroImage, 2019, 189, 804-812.	4.2	55
33	Longitudinal brain structure and cognitive changes over 8 years in an East Asian cohort. NeuroImage, 2017, 147, 852-860.	4.2	53
34	Brain-computer-interface-based intervention re-normalizes brain functional network topology in children with attention deficit/hyperactivity disorder. Translational Psychiatry, 2018, 8, 149.	4.8	53
35	Alterations in Brain Network Topology and Structural-Functional Connectome Coupling Relate to Cognitive Impairment. Frontiers in Aging Neuroscience, 2018, 10, 404.	3.4	52
36	Lack of Evidence for Regional Brain Volume or Cortical Thickness Abnormalities in Youths at Clinical High Risk for Psychosis: Findings From the Longitudinal Youth at Risk Study: Table 1.. Schizophrenia Bulletin, 2015, 41, 1285-1293.	4.3	51

#	Article	IF	Citations
37	Influence of cerebrovascular disease on brain networks in prodromal and clinical Alzheimerâ€™s disease. Brain, 2017, 140, 3012-3022.	7.6	51
38	The Association Between Retinal Neuronal Layer and Brain Structure is Disrupted inÂPatients with Cognitive Impairment andÂAlzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 585-595.	2.6	45
39	Dynamic functional connectivity and its behavioral correlates beyond vigilance. NeuroImage, 2018, 177, 1-10.	4.2	41
40	Functional connectivity and the sleep-deprived brain. Progress in Brain Research, 2019, 246, 159-176.	1.4	41
41	Inter-hemispheric functional dysconnectivity mediates the association of corpus callosum degeneration with memory impairment in AD and amnestic MCI. Scientific Reports, 2016, 6, 32573.	3.3	38
42	Higher Peripheral TREM2 mRNA Levels Relate to Cognitive Deficits and Hippocampal Atrophy in Alzheimerâ€™s Disease and Amnestic Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2017, 58, 413-423.	2.6	38
43	Cognition, Brain Atrophy, and Cerebrospinal Fluid Biomarkers Changes from Preclinical to Dementia Stage of Alzheimer's Disease and the Influence of Apolipoprotein E. Journal of Alzheimer's Disease, 2015, 45, 253-268.	2.6	36
44	Applications of Resting-State Functional Connectivity to Neurodegenerative Disease. Neuroimaging Clinics of North America, 2017, 27, 663-683.	1.0	36
45	Amyloid burden accelerates white matter degradation in cognitively normal elderly individuals. Human Brain Mapping, 2019, 40, 2065-2075.	3.6	35
46	Cerebrovascular disease influences functional and structural network connectivity in patients with amnestic mild cognitive impairment and Alzheimerâ€™s disease. Alzheimer's Research and Therapy, 2018, 10, 82.	6.2	31
47	White matter microstructural abnormalities and default network degeneration are associated with early memory deficit in Alzheimerâ€™s disease continuum. Scientific Reports, 2019, 9, 4749.	3.3	31
48	Distinct BOLD variability changes in the default mode and salience networks in Alzheimerâ€™s disease spectrum and associations with cognitive decline. Scientific Reports, 2020, 10, 6457.	3.3	31
49	Hemispheric lateralization abnormalities of the white matter microstructure in patients with schizophrenia and bipolar disorder. Journal of Psychiatry and Neuroscience, 2017, 42, 242-251.	2.4	31
50	Recognition of Schizophrenia with Regularized Support Vector Machine and Sequential Region of Interest Selection using Structural Magnetic Resonance Imaging. Scientific Reports, 2018, 8, 13858.	3.3	30
51	Mode of Anisotropy Reveals Global Diffusion Alterations in Attention-Deficit/Hyperactivity Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2016, 55, 137-145.	0.5	29
52	Distinct network topology in Alzheimerâ€™s disease and behavioral variant frontotemporal dementia. Alzheimer's Research and Therapy, 2021, 13, 13.	6.2	29
53	Regional White Matter Hyperintensity Influences Grey Matter Atrophy in Mild Cognitive Impairment. Journal of Alzheimer's Disease, 2018, 66, 533-549.	2.6	28
54	COMT Val ¹⁵⁸ Met genotype influences neurodegeneration within dopamine-innervated brain structures. Neurology, 2012, 78, 1663-1669.	1.1	26

#	Article	IF	Citations
55	Depressive symptoms influence global cognitive impairment indirectly by reducing memory and executive function in patients with mild cognitive impairment. Journal of Neurology, Neurosurgery and Psychiatry, 2016, 87, 1375-1383.	1.9	26
56	Effectiveness of a Personalized Brain-Computer Interface System for Cognitive Training in Healthy Elderly: A Randomized Controlled Trial. Journal of Alzheimer's Disease, 2018, 66, 127-138.	2.6	25
57	Vigilance declines following sleep deprivation are associated with two previously identified dynamic connectivity states. NeuroImage, 2019, 200, 382-390.	4.2	24
58	Structural and diffusion MRI based schizophrenia classification using 2D pretrained and 3D naive Convolutional Neural Networks. Schizophrenia Research, 2022, 243, 330-341.	2.0	23
59	Brain MRI-based 3D Convolutional Neural Networks for Classification of Schizophrenia and Controls. , 2020, 2020, 1742-1745.		21
60	Using Transcranial Direct Current Stimulation to Augment the Effect of Motor Imagery-Assisted Brain-Computer Interface Training in Chronic Stroke Patientsâ€"Cortical Reorganization Considerations. Frontiers in Neurology, 2020, 11, 948.	2.4	21
61	Posterior Cingulate Cortex Network Predicts Alzheimer's Disease Progression. Frontiers in Aging Neuroscience, 2020, 12, 608667.	3.4	20
62	Longitudinal trajectory of Amyloidâ€related hippocampal subfield atrophy in nondemented elderly. Human Brain Mapping, 2020, 41, 2037-2047.	3.6	19
63	Task-related brain functional network reconfigurations relate to motor recovery in chronic subcortical stroke. Scientific Reports, 2021, 11, 8442.	3.3	19
64	Carrying the past to the future: Distinct brain networks underlie individual differences in human spatial working memory capacity. NeuroImage, 2018, 176, 1-10.	4.2	18
65	Intrinsic Affective Network Is Impaired in Children with Attention-Deficit/Hyperactivity Disorder. PLoS ONE, 2015, 10, e0139018.	2.5	18
66	Levodopa and the feedback process on setâ€shifting in parkinson's disease. Human Brain Mapping, 2012, 33, 27-39.	3.6	17
67	Functional segregation loss over time is moderated by APOE genotype in healthy elderly. Human Brain Mapping, 2018, 39, 2742-2752.	3.6	16
68	Large-Scale Network Topology Reveals Heterogeneity in Individuals With at Risk Mental State for Psychosis: Findings From the Longitudinal Youth-at-Risk Study. Cerebral Cortex, 2018, 28, 4234-4243.	2.9	16
69	Amyloid and cerebrovascular burden divergently influence brain functional network changes over time. Neurology, 2019, 93, e1514-e1525.	1.1	16
70	Brain Functional Changes in Stroke Following Rehabilitation Using Brain-Computer Interface-Assisted Motor Imagery With and Without tDCS: A Pilot Study. Frontiers in Human Neuroscience, 2021, 15, 692304.	2.0	16
71	Early cerebral volume reductions and their associations with reduced lupus disease activity in patients with newly-diagnosed systemic lupus erythematosus. Scientific Reports, 2016, 6, 22231.	3.3	14
72	White matter network damage mediates association between cerebrovascular disease and cognition. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 0271678X2199098.	4.3	14

#	Article	IF	Citations
73	Respiratory, cardiac, EEG, BOLD signals and functional connectivity over multiple microsleep episodes. NeuroImage, 2021, 237, 118129.	4.2	13
74	Getting Lost Behavior in Patients with Mild Alzheimerâ€™s Disease: A Cognitive and Anatomical Model. Frontiers in Medicine, 2017, 4, 201.	2.6	12
75	Mechanisms Linking White Matter Lesions, Tract Integrity, and Depression in Alzheimer Disease. American Journal of Geriatric Psychiatry, 2019, 27, 948-959.	1.2	12
76	Cerebral microinfarcts affect brain structural network topology in cognitively impaired patients. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 105-115.	4.3	11
77	Probabilistic Framework for Brain Connectivity From Functional MR Images. IEEE Transactions on Medical Imaging, 2008, 27, 825-833.	8.9	10
78	Structure-function coupling within the reward network in preschool children predicts executive functioning in later childhood. Developmental Cognitive Neuroscience, 2022, 55, 101107.	4.0	10
79	Degeneration of structural brain networks is associated with cognitive decline after ischaemic stroke. Brain Communications, 2020, 2, fcaa155.	3.3	9
80	Medial Temporal Atrophy in Amyloid-Negative Amnestic Type Dementia Is Associated with High Cerebral White Matter Hyperintensity. Journal of Alzheimer's Disease, 2019, 70, 99-106.	2.6	7
81	Fuzzy approach to incorporate hemodynamic variability and contextual information for detection of brain activation. Neurocomputing, 2008, 71, 3184-3192.	5.9	6
82	Plasticity of DNA methylation, functional brain connectivity and efficiency in cognitive remediation for schizophrenia. Journal of Psychiatric Research, 2020, 126, 122-133.	3.1	6
83	Bilingual language entropy influences executive functions through functional connectivity and signal variability. Brain and Language, 2021, 222, 105026.	1.6	6
84	Better Not to Know? Emotion Regulation Fails to Benefit from Affective Cueing. Frontiers in Human Neuroscience, 2016, 10, 599.	2.0	5
85	Elucidation of shared and specific white matter findings underlying psychopathology clusters in schizophrenia. Asian Journal of Psychiatry, 2017, 30, 144-151.	2.0	5
86	Differential Amplitude of Low-Frequency Fluctuations in brain networks after BCI Training with and without tDCS in Stroke. , 2018, 2018, 1050-1053.		5
87	Altered Sensory Insular Connectivity in Chronic Postsurgical Pain Patients. Frontiers in Human Neuroscience, 2018, 12, 483.	2.0	5
88	Brain white matter extracellular free-water increases are related to reduced neurocognitive function in systemic lupus erythematosus. Rheumatology, 2022, 61, 1166-1174.	1.9	5
89	Minimizing Hybrid Dice Loss for Highly Imbalanced 3D Neuroimage Segmentation. , 2020, 2020, 1059-1062.		4
90	Serial position effects differ between Alzheimerâ€™s and vascular features in mild cognitive impairment. Aging, 2018, 10, 3866-3880.	3.1	4

#	Article	IF	Citations
91	Case-control analysis of leucine-rich repeat kinase 2 protective variants in Alzheimer's disease. Neurobiology of Aging, 2018, 64, 157.e7-157.e9.	3.1	3
92	Corticolimbic brain anomalies are associated with cognitive subtypes in psychosis: A longitudinal study. European Psychiatry, 2020, 63, e40.	0.2	3
93	Design of hardware efficient modulated filter bank for EEG signals feature extraction. , 2014, , .		2
94	A feasibility study of detecting brain signal in EEG during emotional self-regulation. , 2017, , .		2
95	Whole Brain White Matter Microstructure and Upper Limb Function: Longitudinal Changes in Fractional Anisotropy and Axial Diffusivity in Post-Stroke Patients. Journal of Central Nervous System Disease, 2019, 11, 117957351986342.	1.9	2
96	Cerebrovascular Disease Is a Risk for Getting Lost Behavior in Prodromal Dementia. American Journal of Alzheimer's Disease and Other Dementias, 2019, 34, 344-352.	1.9	2
97	Extraction of Fuzzy Features for Detecting Brain Activation from Functional MR Time-Series. Lecture Notes in Computer Science, 2006, , 983-992.	1.3	1
98	Brain Network Functional Connectivity in Alzheimerâ€™s Disease and Frontotemporal Dementia. , 2020, , 385-415.		1
99	Modeling hemodynamic variability with fuzzy features for detecting brain activation from fMR time-series. Neural Computing and Applications, 2007, 16, 541-549.	5.6	0
100	P4-153: INFLUENCE OF SMALL VESSEL CEREBROVASCULAR DISEASE ON THE NEUROPSYCHOLOGICAL PERFORMANCE OF PATIENTS WITH EARLY ALZHEIMER'S DISEASE. , 2014, 10, P844-P846.		0
101	F2-02-02: PREDICTING REGIONAL NEURODEGENERATION FROM THE HEALTHY BRAIN CONNECTOME. , 2014, 10, P159-P159.		0
102	P4â€185: Structural Connectivity Analysis Reveals White Matter Integrity Aberrations in Highâ€Risk Cardiovascular Burden Subjects With Mild Alzheimerâ€™s Dementia. Alzheimer's and Dementia, 2016, 12, P1090.	0.8	0
103	O2-06-06: Higher Peripheral Trem2 Mrna Expression Levels are Related to Cognitive Deficits and Hippocampal Atrophy in Alzheimer's Disease and Amnestic MCI. , 2016, 12, P241-P241.		0
104	[P4â€“237]: WHITE MATTER MICROSTRUCTURAL AND EXTRACELLULAR FREEâ€WATER CHANGES ASSOCIATED WITH COGNITION IN AMNESTIC MILD COGNITIVE IMPAIRMENT AND ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2017, 13, P1365.	0.8	0
105	[P1â€“408]: CEREBROSPINAL FLUID TAU/AMYLOID Î²42 RATIO CORRELATES TO CEREBRAL ATROPHY IN AD. Alzheimer's and Dementia, 2017, 13, P431.	0.8	0
106	[O2â€“01â€“04]: SERIAL POSITION PROFILES OF RECALL IN MILD COGNITIVE IMPAIRMENT: INTERPLAY BETWEEN HIPPOCAMPAL VOLUMES AND WHITE MATTER HYPERINTENSITIES. Alzheimer's and Dementia, 2017, 13, P548.	0.8	0
107	P1â€386: AMYLOID AND CEREBROVASCULAR BURDEN INFLUENCES ON LONGITUDINAL BRAIN FUNCTIONAL CONNECTIVITY CHANGES IN MILD COGNITIVE IMPAIRMENT. Alzheimer's and Dementia, 2018, 14, P448.	0.8	0
108	P2â€423: GREATER LONGITUDINAL WHITE MATTER MICROSTRUCTURE AND EXTRACELLULAR FREEâ€WATER CHANGES IN HEALTHY ELDERLY APOE4 ALLELE CARRIERS. Alzheimer's and Dementia, 2018, 14, P871.	0.8	0

#	Article	IF	Citations
109	P1â€353: CEREBROVASCULAR DISEASE IS ASSOCIATED WITH GETTING LOST BEHAVIOR IN MILD ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P429.	0.8	0
110	F156. LONGITUDINAL WORKING MEMORY FUNCTIONAL DYSCONNECTIVITY REFLECTS HETEROGENEITY IN INDIVIDUALS AT ULTRA HIGH RISK FOR PSYCHOSIS. Schizophrenia Bulletin, 2018, 44, S281-S281.	4.3	0
111	Stageâ€dependent amyloid betaâ€•and tauâ€associated longitudinal white matter degeneration in early stages of Alzheimerâ€™s disease. Alzheimer's and Dementia, 2020, 16, e040201.	0.8	0
112	Brain freeâ€water increases mediate the association of blood cardiovascular biomarkers with longitudinal cognitive decline in prodromal and clinical dementia. Alzheimer's and Dementia, 2020, 16, e044477.	0.8	0
113	Cortical thinning and white matter abnormalities relate to longitudinal neuropsychiatric symptoms differentially in predementia and dementia stages. Alzheimer's and Dementia, 2021, 17, .	0.8	0