Jiayu Chen

List of Publications by Year
in descending order

63 papers	2,991 citations	218592 26 h-index	189801 50 g-index
70 all docs	70 docs citations	70 times ranked	4377 citing authors

#	Article	IF	Citations
1	Network modules linking expression and methylation in prefrontal cortex of schizophrenia. Epigenetics, 2021, 16, 876-893.	1.3	8
2	Sparse deep neural networks on imaging genetics for schizophrenia case–control classification. Human Brain Mapping, 2021, 42, 2556-2568.	1.9	17
3	DNA methylation under the major depression pathway predicts pediatric quality of life four-month post-pediatric mild traumatic brain injury. Clinical Epigenetics, 2021, 13, 140.	1.8	4
4	Reward Processing in Novelty Seekers: A Transdiagnostic Psychiatric Imaging Biomarker. Biological Psychiatry, 2021, 90, 529-539.	0.7	25
5	Multivariate alterations in insula - Medial prefrontal cortex linked to genetics in 12q24 in schizophrenia. Psychiatry Research, 2021, 306, 114237.	1.7	4
6	Multi-modal deep learning of functional and structural neuroimaging and genomic data to predict mental illness. , 2021, 2021, 3267-3272.		11
7	N-BiC: A Method for Multi-Component and Symptom Biclustering of Structural MRI Data: Application to Schizophrenia. IEEE Transactions on Biomedical Engineering, 2020, 67, 110-121.	2.5	22
8	Age–related structural and functional variations in 5,967 individuals across the adult lifespan. Human Brain Mapping, 2020, 41, 1725-1737.	1.9	46
9	NeuroMark: An automated and adaptive ICA based pipeline to identify reproducible fMRI markers of brain disorders. NeuroImage: Clinical, 2020, 28, 102375.	1.4	198
10	Structural Brain Architectures Match Intrinsic Functional Networks and Vary across Domains: A Study from 15‰000+ Individuals. Cerebral Cortex, 2020, 30, 5460-5470.	1.6	28
11	Brain function, structure and genomic data are linked but show different sensitivity to duration of illness and disease stage in schizophrenia. NeuroImage: Clinical, 2019, 23, 101887.	1.4	14
12	Translational Potential of Neuroimaging Genomic Analyses to Diagnosis and Treatment in Mental Disorders. Proceedings of the IEEE, 2019, 107, 912-927.	16.4	4
13	Parallel group ICA+ICA: Joint estimation of linked functional network variability and structural covariation with application to schizophrenia. Human Brain Mapping, 2019, 40, 3795-3809.	1.9	23
14	A method for building a genome-connectome bipartite graph model. Journal of Neuroscience Methods, 2019, 320, 64-71.	1.3	1
15	Group ICA for identifying biomarkers in schizophrenia: 'Adaptive' networks via spatially constrained ICA show more sensitivity to group differences than spatio-temporal regression. NeuroImage: Clinical, 2019, 22, 101747.	1.4	79
16	Altered static and dynamic functional network connectivity in Alzheimer's disease and subcortical ischemic vascular disease: shared and specific brain connectivity abnormalities. Human Brain Mapping, 2019, 40, 3203-3221.	1.9	107
17	A framework for linking resting-state chronnectome/genome features in schizophrenia: A pilot study. NeuroImage, 2019, 184, 843-854.	2.1	24
18	Shared Genetic Risk of Schizophrenia and Gray Matter Reduction in 6p22.1. Schizophrenia Bulletin, 2019, 45, 222-232.	2.3	31

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19	Characterization of cross-tissue genetic-epigenetic effects and their patterns in schizophrenia. Genome Medicine, 2018, 10, 13.	3.6	51
20	Application of Graph Theory to Assess Static and Dynamic Brain Connectivity: Approaches for Building Brain Graphs. Proceedings of the IEEE, 2018, 106, 886-906.	16.4	53
21	Neural correlates of cognitive function and symptoms in attention-deficit/hyperactivity disorder in adults. NeuroImage: Clinical, 2018, 19, 374-383.	1.4	29
22	Cross-Tissue Exploration of Genetic and Epigenetic Effects on Brain Gray Matter in Schizophrenia. Schizophrenia Bulletin, 2018, 44, 443-452.	2.3	29
23	Multimodal Fusion With Reference: Searching for Joint Neuromarkers of Working Memory Deficits in Schizophrenia. IEEE Transactions on Medical Imaging, 2018, 37, 93-105.	5.4	65
24	Identifying functional network changing patterns in individuals at clinical high-risk for psychosis and patients with early illness schizophrenia: A group ICA study. NeuroImage: Clinical, 2018, 17, 335-346.	1.4	35
25	Dynamic functional connectivity impairments in early schizophrenia and clinical high-risk for psychosis. NeuroImage, 2018, 180, 632-645.	2.1	125
26	SMRI Biomarkers Predict Electroconvulsive Treatment Outcomes: Accuracy with Independent Data Sets. Neuropsychopharmacology, 2018, 43, 1078-1087.	2.8	49
27	Exploring different impaired speed of genetic-related brain function and structures in schizophrenic progress using multimodal analysis*. , 2018, 2018, 4126-4129.		4
28	Opposite Epigenetic Associations With Alcohol Use and Exercise Intervention. Frontiers in Psychiatry, 2018, 9, 594.	1.3	15
29	A Schizophrenia-Related Genetic-Brain-Cognition Pathway Revealed in a Large Chinese Population. EBioMedicine, 2018, 37, 471-482.	2.7	31
30	Variability in Resting State Network and Functional Network Connectivity Associated With Schizophrenia Genetic Risk: A Pilot Study. Frontiers in Neuroscience, 2018, 12, 114.	1.4	17
31	A Perspective of the Cross-Tissue Interplay of Genetics, Epigenetics, and Transcriptomics, and Their Relation to Brain Based Phenotypes in Schizophrenia. Frontiers in Genetics, 2018, 9, 343.	1.1	6
32	Multimodal neuromarkers in schizophrenia via cognition-guided MRI fusion. Nature Communications, 2018, 9, 3028.	5.8	127
33	Predicting individualized clinical measures by a generalized prediction framework and multimodal fusion of MRI data. NeuroImage, 2017, 145, 218-229.	2.1	95
34	Identifying dynamic functional connectivity biomarkers using GIGâ€‹ICA: Application to schizophrenia, schizoaffective disorder, and psychotic bipolar disorder. Human Brain Mapping, 2017, 38, 2683-2708.	1.9	111
35	Comparing brain graphs in which nodes are regions of interest or independent components: A simulation study. Journal of Neuroscience Methods, 2017, 291, 61-68.	1.3	47
36	Independent component analysis of SNPs reflects polygenic risk scores for schizophrenia. Schizophrenia Research, 2017, 181, 83-85.	1.1	6

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37	Adaptive sparse multiple canonical correlation analysis with application to imaging (epi)genomics study of schizophrenia. IEEE Transactions on Biomedical Engineering, 2017, 65, 1-1.	2.5	30
38	Comparison of IVA and GIG-ICA in Brain Functional Network Estimation Using fMRI Data. Frontiers in Neuroscience, 2017, 11, 267.	1.4	22
39	Building an EEG-fMRI Multi-Modal Brain Graph: A Concurrent EEG-fMRI Study. Frontiers in Human Neuroscience, 2016, 10, 476.	1.0	35
40	Gâ€protein genomic association with normal variation in gray matter density. Human Brain Mapping, 2015, 36, 4272-4286.	1.9	15
41	CREB-BDNF pathway influences alcohol cue-elicited activation in drinkers. Human Brain Mapping, 2015, 36, 3007-3019.	1.9	26
42	Genetic markers of white matter integrity in schizophrenia revealed by parallel ICA. Frontiers in Human Neuroscience, 2015, 9, 100.	1.0	11
43	In Search of Multimodal Neuroimaging Biomarkers of Cognitive Deficits in Schizophrenia. Biological Psychiatry, 2015, 78, 794-804.	0.7	158
44	Parallel group ICA for multimodal biomedical data analyses. , 2015, , .		0
45	Patterns of Gray Matter Abnormalities in Schizophrenia Based on an International Mega-analysis. Schizophrenia Bulletin, 2015, 41, 1133-1142.	2.3	183
46	The association of DNA methylation and brain volume in healthy individuals and schizophrenia patients. Schizophrenia Research, 2015, 169, 447-452.	1.1	29
47	Three-way parallel independent component analysis for imaging genetics using multi-objective optimization. , 2014, 2014, 6651-4.		0
48	Parallel ICA with multiple references: A semi-blind multivariate approach. , 2014, 2014, 6659-62.		4
49	Methylation Patterns in Whole Blood Correlate With Symptoms in Schizophrenia Patients. Schizophrenia Bulletin, 2014, 40, 769-776.	2.3	115
50	Exploration of scanning effects in multi-site structural MRI studies. Journal of Neuroscience Methods, 2014, 230, 37-50.	1.3	112
51	Association Between Copy Number Variation Losses and Alcohol Dependence Across <scp>A</scp>frican <scp>A</scp>merican and <scp>E</scp>uropean <scp>A</scp>merican Ethnic Groups. Alcoholism: Clinical and Experimental Research, 2014, 38, 1266-1274.	1.4	8
52	A three-way parallel ICA approach to analyze links among genetics, brain structure and brain function. NeuroImage, 2014, 98, 386-394.	2.1	47
53	Effect of homozygous deletions at 22q13.1 on alcohol dependence severity and cueâ€elicited BOLD response in the precuneus. Addiction Biology, 2013, 18, 548-558.	1.4	13
54	Guided exploration of genomic risk for gray matter abnormalities in schizophrenia using parallel independent component analysis with reference. NeuroImage, 2013, 83, 384-396.	2.1	48

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55	Combination of Resting State fMRI, DTI, and sMRI Data to Discriminate Schizophrenia by N-way MCCAâ€‰+â€‰jICA. Frontiers in Human Neuroscience, 2013, 7, 235.	1.0	90
56	ICA order selection based on consistency: Application to genotype data. , 2012, 2012, 360-3.		19
57	Association of genetic copy number variations at 11 q14.2 with brain regional volume differences in an alcohol use disorder population. Alcohol, 2012, 46, 519-527.	0.8	20
58	Multifaceted genomic risk for brain function in schizophrenia. NeuroImage, 2012, 61, 866-875.	2.1	42
59	Parallel ICA identifies sub-components of resting state networks that covary with behavioral indices. Frontiers in Human Neuroscience, 2012, 6, 281.	1.0	21
60	A review of multivariate methods for multimodal fusion of brain imaging data. Journal of Neuroscience Methods, 2012, 204, 68-81.	1.3	352
61	A Pilot Study on Collective Effects of 22q13.31 Deletions on Gray Matter Concentration in Schizophrenia. PLoS ONE, 2012, 7, e52865.	1.1	13
62	A pipeline for copy number variation detection based on principal component analysis. , 2011, 2011, 6975-8.		7
63	Correction of copy number variation data using principal component analysis. , 2010, 2010, 827-828.		3