

Jiayu Chen

List of Publications by Year in descending order

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Version: 2024-02-01

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	A review of multivariate methods for multimodal fusion of brain imaging data. <i>Journal of Neuroscience Methods</i> , 2012, 204, 68-81.	1.3	352
2	NeuroMark: An automated and adaptive ICA based pipeline to identify reproducible fMRI markers of brain disorders. <i>NeuroImage: Clinical</i> , 2020, 28, 102375.	1.4	198
3	Patterns of Gray Matter Abnormalities in Schizophrenia Based on an International Mega-analysis. <i>Schizophrenia Bulletin</i> , 2015, 41, 1133-1142.	2.3	183
4	In Search of Multimodal Neuroimaging Biomarkers of Cognitive Deficits in Schizophrenia. <i>Biological Psychiatry</i> , 2015, 78, 794-804.	0.7	158
5	Multimodal neuromarkers in schizophrenia via cognition-guided MRI fusion. <i>Nature Communications</i> , 2018, 9, 3028.	5.8	127
6	Dynamic functional connectivity impairments in early schizophrenia and clinical high-risk for psychosis. <i>NeuroImage</i> , 2018, 180, 632-645.	2.1	125
7	Methylation Patterns in Whole Blood Correlate With Symptoms in Schizophrenia Patients. <i>Schizophrenia Bulletin</i> , 2014, 40, 769-776.	2.3	115
8	Exploration of scanning effects in multi-site structural MRI studies. <i>Journal of Neuroscience Methods</i> , 2014, 230, 37-50.	1.3	112
9	Identifying dynamic functional connectivity biomarkers using GIG-ICA: Application to schizophrenia, schizoaffective disorder, and psychotic bipolar disorder. <i>Human Brain Mapping</i> , 2017, 38, 2683-2708.	1.9	111
10	Altered static and dynamic functional network connectivity in Alzheimer's disease and subcortical ischemic vascular disease: shared and specific brain connectivity abnormalities. <i>Human Brain Mapping</i> , 2019, 40, 3203-3221.	1.9	107
11	Predicting individualized clinical measures by a generalized prediction framework and multimodal fusion of MRI data. <i>NeuroImage</i> , 2017, 145, 218-229.	2.1	95
12	Combination of Resting State fMRI, DTI, and sMRI Data to Discriminate Schizophrenia by N-way MCCA+ICA. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 235.	1.0	90
13	Group ICA for identifying biomarkers in schizophrenia: "Adaptive"™ networks via spatially constrained ICA show more sensitivity to group differences than spatio-temporal regression. <i>NeuroImage: Clinical</i> , 2019, 22, 101747.	1.4	79
14	Multimodal Fusion With Reference: Searching for Joint Neuromarkers of Working Memory Deficits in Schizophrenia. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 93-105.	5.4	65
15	Application of Graph Theory to Assess Static and Dynamic Brain Connectivity: Approaches for Building Brain Graphs. <i>Proceedings of the IEEE</i> , 2018, 106, 886-906.	16.4	53
16	Characterization of cross-tissue genetic-epigenetic effects and their patterns in schizophrenia. <i>Genome Medicine</i> , 2018, 10, 13.	3.6	51
17	SMRI Biomarkers Predict Electroconvulsive Treatment Outcomes: Accuracy with Independent Data Sets. <i>Neuropsychopharmacology</i> , 2018, 43, 1078-1087.	2.8	49
18	Guided exploration of genomic risk for gray matter abnormalities in schizophrenia using parallel independent component analysis with reference. <i>NeuroImage</i> , 2013, 83, 384-396.	2.1	48

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19	A three-way parallel ICA approach to analyze links among genetics, brain structure and brain function. <i>NeuroImage</i> , 2014, 98, 386-394.	2.1	47
20	Comparing brain graphs in which nodes are regions of interest or independent components: A simulation study. <i>Journal of Neuroscience Methods</i> , 2017, 291, 61-68.	1.3	47
21	Age-related structural and functional variations in 5,967 individuals across the adult lifespan. <i>Human Brain Mapping</i> , 2020, 41, 1725-1737.	1.9	46
22	Multifaceted genomic risk for brain function in schizophrenia. <i>NeuroImage</i> , 2012, 61, 866-875.	2.1	42
23	Building an EEG-fMRI Multi-Modal Brain Graph: A Concurrent EEG-fMRI Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 476.	1.0	35
24	Identifying functional network changing patterns in individuals at clinical high-risk for psychosis and patients with early illness schizophrenia: A group ICA study. <i>NeuroImage: Clinical</i> , 2018, 17, 335-346.	1.4	35
25	A Schizophrenia-Related Genetic-Brain-Cognition Pathway Revealed in a Large Chinese Population. <i>EBioMedicine</i> , 2018, 37, 471-482.	2.7	31
26	Shared Genetic Risk of Schizophrenia and Gray Matter Reduction in 6p22.1. <i>Schizophrenia Bulletin</i> , 2019, 45, 222-232.	2.3	31
27	Adaptive sparse multiple canonical correlation analysis with application to imaging (epi)genomics study of schizophrenia. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 65, 1-1.	2.5	30
28	The association of DNA methylation and brain volume in healthy individuals and schizophrenia patients. <i>Schizophrenia Research</i> , 2015, 169, 447-452.	1.1	29
29	Neural correlates of cognitive function and symptoms in attention-deficit/hyperactivity disorder in adults. <i>NeuroImage: Clinical</i> , 2018, 19, 374-383.	1.4	29
30	Cross-Tissue Exploration of Genetic and Epigenetic Effects on Brain Gray Matter in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2018, 44, 443-452.	2.3	29
31	Structural Brain Architectures Match Intrinsic Functional Networks and Vary across Domains: A Study from 15,000+ Individuals. <i>Cerebral Cortex</i> , 2020, 30, 5460-5470.	1.6	28
32	CREB-BDNF pathway influences alcohol cue-elicited activation in drinkers. <i>Human Brain Mapping</i> , 2015, 36, 3007-3019.	1.9	26
33	Reward Processing in Novelty Seekers: A Transdiagnostic Psychiatric Imaging Biomarker. <i>Biological Psychiatry</i> , 2021, 90, 529-539.	0.7	25
34	A framework for linking resting-state chronnectome/genome features in schizophrenia: A pilot study. <i>NeuroImage</i> , 2019, 184, 843-854.	2.1	24
35	Parallel group ICA+ICA: Joint estimation of linked functional network variability and structural covariation with application to schizophrenia. <i>Human Brain Mapping</i> , 2019, 40, 3795-3809.	1.9	23
36	Comparison of IVA and GIG-ICA in Brain Functional Network Estimation Using fMRI Data. <i>Frontiers in Neuroscience</i> , 2017, 11, 267.	1.4	22

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37	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
38	Parallel ICA identifies sub-components of resting state networks that covary with behavioral indices. Frontiers in Human Neuroscience, 2012, 6, 281.	1.0	21
39	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
40	ICA order selection based on consistency: Application to genotype data. , 2012, 2012, 360-3.		19
41	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
42	Sparse deep neural networks on imaging genetics for schizophrenia caseâ€“control classification. Human Brain Mapping, 2021, 42, 2556-2568.	1.9	17
43	Câ€“protein genomic association with normal variation in gray matter density. Human Brain Mapping, 2015, 36, 4272-4286.	1.9	15
44	Opposite Epigenetic Associations With Alcohol Use and Exercise Intervention. Frontiers in Psychiatry, 2018, 9, 594.	1.3	15
45	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
46	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
47	A Pilot Study on Collective Effects of 22q13.31 Deletions on Gray Matter Concentration in Schizophrenia. PLoS ONE, 2012, 7, e52865.	1.1	13
48	Genetic markers of white matter integrity in schizophrenia revealed by parallel ICA. Frontiers in Human Neuroscience, 2015, 9, 100.	1.0	11
49	Multi-modal deep learning of functional and structural neuroimaging and genomic data to predict mental illness. , 2021, 2021, 3267-3272.		11
50	Association Between Copy Number Variation Losses and Alcohol Dependence Across African American and European American Ethnic Groups. Alcoholism: Clinical and Experimental Research, 2014, 38, 1266-1274.	1.4	8
51	Network modules linking expression and methylation in prefrontal cortex of schizophrenia. Epigenetics, 2021, 16, 876-893.	1.3	8
52	A pipeline for copy number variation detection based on principal component analysis. , 2011, 2011, 6975-8.		7
53	Independent component analysis of SNPs reflects polygenic risk scores for schizophrenia. Schizophrenia Research, 2017, 181, 83-85.	1.1	6
54	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

#	ARTICLE	IF	CITATIONS
55	Parallel ICA with multiple references: A semi-blind multivariate approach. , 2014, 2014, 6659-62.		4
56	Exploring different impaired speed of genetic-related brain function and structures in schizophrenic progress using multimodal analysis*. , 2018, 2018, 4126-4129.		4
57	Translational Potential of Neuroimaging Genomic Analyses to Diagnosis and Treatment in Mental Disorders. Proceedings of the IEEE, 2019, 107, 912-927.	16.4	4
58	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
59	Multivariate alterations in insula - Medial prefrontal cortex linked to genetics in 12q24 in schizophrenia. Psychiatry Research, 2021, 306, 114237.	1.7	4
60	Correction of copy number variation data using principal component analysis. , 2010, 2010, 827-828.		3
61	A method for building a genome-connectome bipartite graph model. Journal of Neuroscience Methods, 2019, 320, 64-71.	1.3	1
62	Three-way parallel independent component analysis for imaging genetics using multi-objective optimization. , 2014, 2014, 6651-4.		0
63	Parallel group ICA for multimodal biomedical data analyses. , 2015, , .		0