

Han Zhang

List of Publications by Year in descending order

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124
papers

4,669
citations

117625

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118850

62
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134
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134
docs citations

134
times ranked

5847
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Class ASD Classification via Label Distribution Learning with Class-Shared and Class-Specific Decomposition. <i>Medical Image Analysis</i> , 2022, 75, 102294.	11.6	9
2	Multiview Feature Learning With Multiatlas-Based Functional Connectivity Networks for MCI Diagnosis. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 6822-6833.	9.5	22
3	Existence of Functional Connectome Fingerprint during Infancy and Its Stability over Months. <i>Journal of Neuroscience</i> , 2022, 42, 377-389.	3.6	17
4	Altered Connectedness of the Brain Chronnectome During the Progression to Alzheimer's Disease. <i>Neuroinformatics</i> , 2022, 20, 391-403.	2.8	3
5	Alterations of dynamic redundancy of functional brain subnetworks in Alzheimer's disease and major depression disorders. <i>NeuroImage: Clinical</i> , 2022, 33, 102917.	2.7	4
6	Multiscale functional connectome abnormality predicts cognitive outcomes in subcortical ischemic vascular disease. <i>Cerebral Cortex</i> , 2022, 32, 4641-4656.	2.9	7
7	Predicting Brain Amyloid- β^2 PET Grades with Graph Convolutional Networks Based on Functional MRI and Multi-Level Functional Connectivity. <i>Journal of Alzheimer's Disease</i> , 2022, 86, 1679-1693.	2.6	4
8	Deep attentive spatio-temporal feature learning for automatic resting-state fMRI denoising. <i>NeuroImage</i> , 2022, 254, 119127.	4.2	5
9	High-flow nasal cannula versus conventional oxygen therapy in acute COPD exacerbation with mild hypercapnia: a multicenter randomized controlled trial. <i>Critical Care</i> , 2022, 26, 109.	5.8	18
10	Overall survival time prediction for glioblastoma using multimodal deep KNN. <i>Physics in Medicine and Biology</i> , 2022, 67, 135011.	3.0	3
11	Common feature learning for brain tumor MRI synthesis by context-aware generative adversarial network. <i>Medical Image Analysis</i> , 2022, 79, 102472.	11.6	10
12	Prediction of 7-year's conversion from subjective cognitive decline to mild cognitive impairment. <i>Human Brain Mapping</i> , 2021, 42, 192-203.	3.6	29
13	Dynamic neural circuit disruptions associated with antisocial behaviors. <i>Human Brain Mapping</i> , 2021, 42, 329-344.	3.6	7
14	Multiscale neural modeling of resting-state fMRI reveals executive-limbic malfunction as a core mechanism in major depressive disorder. <i>NeuroImage: Clinical</i> , 2021, 31, 102758.	2.7	11
15	Brainwide functional networks associated with anatomically- and functionally-defined hippocampal subfields using ultrahigh-resolution fMRI. <i>Scientific Reports</i> , 2021, 11, 10835.	3.3	2
16	Classification of type 2 diabetes mellitus with or without cognitive impairment from healthy controls using high-order functional connectivity. <i>Human Brain Mapping</i> , 2021, 42, 4671-4684.	3.6	14
17	TCF3 Regulates the Proliferation and Apoptosis of Human Spermatogonial Stem Cells by Targeting PODXL. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 695545.	3.7	8
18	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 478-487.	8.9	100

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19	Deep Learning of Imaging Phenotype and Genotype for Predicting Overall Survival Time of Glioblastoma Patients. IEEE Transactions on Medical Imaging, 2020, 39, 2100-2109.	8.9	56
20	Large-scale dynamic causal modeling of major depressive disorder based on resting-state functional magnetic resonance imaging. Human Brain Mapping, 2020, 41, 865-881.	3.6	52
21	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. IEEE Transactions on Medical Imaging, 2020, 39, 4137-4149.	8.9	27
22	Auto-GAN: Self-Supervised Collaborative Learning for Medical Image Synthesis. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 10486-10493.	4.9	38
23	The emergence of a functionally flexible brain during early infancy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23904-23913.	7.1	36
24	Development of Dynamic Functional Architecture during Early Infancy. Cerebral Cortex, 2020, 30, 5626-5638.	2.9	12
25	A toolbox for brain network construction and classification (BrainNetClass). Human Brain Mapping, 2020, 41, 2808-2826.	3.6	52
26	Percent amplitude of fluctuation: A simple measure for resting-state fMRI signal at single voxel level. PLoS ONE, 2020, 15, e0227021.	2.5	78
27	A Care Delivery Model of Temporary Transfer of Medical Workers and Equipment to Confine a Pandemic. Frontiers in Medicine, 2020, 7, 561864.	2.6	0
28	Disentangled Intensive Triplet Autoencoder for Infant Functional Connectome Fingerprinting. Lecture Notes in Computer Science, 2020, 12267, 72-82.	1.3	3
29	Testicular biopsies microarray analysis reveals circRNAs are involved in the pathogenesis of non-obstructive azoospermia. Aging, 2020, 12, 2610-2625.	3.1	9
30	A Computational Framework for Dissociating Development-Related from Individually Variable Flexibility in Regional Modularity Assignment in Early Infancy. Lecture Notes in Computer Science, 2020, 12267, 13-21.	1.3	2
31	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. Lecture Notes in Computer Science, 2020, 12267, 238-248.	1.3	1
32	A New Metric for Characterizing Dynamic Redundancy of Dense Brain Chronnectome and Its Application to Early Detection of Alzheimer's Disease. Lecture Notes in Computer Science, 2020, , 3-12.	1.3	1
33	Sparse Multiview Task-Centralized Ensemble Learning for ASD Diagnosis Based on Age- and Sex-Related Functional Connectivity Patterns. IEEE Transactions on Cybernetics, 2019, 49, 3141-3154.	9.5	48
34	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. NeuroImage, 2019, 185, 664-684.	4.2	91
35	Developmental topography of cortical thickness during infancy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15855-15860.	7.1	82
36	Disruptions of the olfactory and default mode networks in Alzheimer's disease. Brain and Behavior, 2019, 9, e01296.	2.2	23

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37	Treatment-naïve first episode depression classification based on high-order brain functional network. <i>Journal of Affective Disorders</i> , 2019, 256, 33-41.	4.1	24
38	RESTplus: an improved toolkit for resting-state functional magnetic resonance imaging data processing. <i>Science Bulletin</i> , 2019, 64, 953-954.	9.0	156
39	Disordered APC/C-mediated cell cycle progression and IGF1/PI3K/AKT signalling are the potential basis of Sertoli cell-only syndrome. <i>Andrologia</i> , 2019, 51, e13288.	2.1	12
40	Local Diffusion Homogeneity Provides Supplementary Information in T2DM-Related WM Microstructural Abnormality Detection. <i>Frontiers in Neuroscience</i> , 2019, 13, 63.	2.8	18
41	Meta-Network Analysis of Structural Correlation Networks Provides Insights Into Brain Network Development. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 93.	2.0	2
42	A network-based approach to identify DNA methylation and its involved molecular pathways in testicular germ cell tumors. <i>Journal of Cancer</i> , 2019, 10, 893-902.	2.5	11
43	Inter-Network High-Order Functional Connectivity (IN-HOFC) and its Alteration in Patients with Mild Cognitive Impairment. <i>Neuroinformatics</i> , 2019, 17, 547-561.	2.8	9
44	Overall survival time prediction for high-grade glioma patients based on large-scale brain functional networks. <i>Brain Imaging and Behavior</i> , 2019, 13, 1333-1351.	2.1	37
45	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. <i>Pattern Recognition</i> , 2019, 88, 421-430.	8.1	101
46	First-year development of modules and hubs in infant brain functional networks. <i>NeuroImage</i> , 2019, 185, 222-235.	4.2	70
47	High-sensitivity neuroimaging biomarkers for the identification of amnesic mild cognitive impairment based on resting-state fMRI and a triple network model. <i>Brain Imaging and Behavior</i> , 2019, 13, 1-14.	2.1	39
48	CoCa-GAN: Common-Feature-Learning-Based Context-Aware Generative Adversarial Network for Glioma Grading. <i>Lecture Notes in Computer Science</i> , 2019, , 155-163.	1.3	13
49	Automated Parcellation of the Cortex Using Structural Connectome Harmonics. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 475-483.	1.3	1
50	Multi-layer Temporal Network Analysis Reveals Increasing Temporal Reachability and Spreadability in the First Two Years of Life. <i>Lecture Notes in Computer Science</i> , 2019, , 665-672.	1.3	2
51	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. <i>Scientific Reports</i> , 2019, 9, 1103.	3.3	133
52	Decoding EEG by Visual-guided Deep Neural Networks. , 2019, , .		13
53	Comprehensive analysis of an lncRNA-miRNA-mRNA competing endogenous RNA network in pulpitis. <i>PeerJ</i> , 2019, 7, e7135.	2.0	34
54	Early Development of Infant Brain Complex Network. <i>Lecture Notes in Computer Science</i> , 2019, , 832-840.	1.3	1

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55	A Deep Learning Framework for Noise Component Detection from Resting-State Functional MRI. Lecture Notes in Computer Science, 2019, , 754-762.	1.3	12
56	Dynamic Routing Capsule Networks for Mild Cognitive Impairment Diagnosis. Lecture Notes in Computer Science, 2019, 2019, 620-628.	1.3	7
57	Identification of Abnormal Circuit Dynamics in Major Depressive Disorder via Multiscale Neural Modeling of Resting-State fMRI. Lecture Notes in Computer Science, 2019, 11766, 682-690.	1.3	2
58	Deep Granular Feature-Label Distribution Learning for Neuroimaging-Based Infant Age Prediction. Lecture Notes in Computer Science, 2019, 11767, 149-157.	1.3	2
59	Pre-operative Overall Survival Time Prediction for Glioblastoma Patients Using Deep Learning on Both Imaging Phenotype and Genotype. Lecture Notes in Computer Science, 2019, 11764, 415-422.	1.3	7
60	SPLUNC1 knockout enhances LPS-induced lung injury by increasing recruitment of CD11b+Gr-1+ cells to the spleen of mice. Oncology Reports, 2018, 39, 358-366.	2.6	6
61	Functional MRI registration with tissue-specific patch-based functional correlation tensors. Human Brain Mapping, 2018, 39, 2303-2316.	3.6	11
62	Exploring diagnosis and imaging biomarkers of Parkinson's disease via iterative canonical correlation analysis based feature selection. Computerized Medical Imaging and Graphics, 2018, 67, 21-29.	5.8	11
63	Tumor Tissue Detection using Blood-Oxygen-Level-Dependent Functional MRI based on Independent Component Analysis. Scientific Reports, 2018, 8, 1223.	3.3	25
64	Multi-Label Nonlinear Matrix Completion With Transductive Multi-Task Feature Selection for Joint MGMT and IDH1 Status Prediction of Patient With High-Grade Gliomas. IEEE Transactions on Medical Imaging, 2018, 37, 1775-1787.	8.9	25
65	Radiation-induced brain structural and functional abnormalities in presymptomatic phase and outcome prediction. Human Brain Mapping, 2018, 39, 407-427.	3.6	46
66	Spatiotemporal Analysis of Developing Brain Networks. Frontiers in Neuroinformatics, 2018, 12, 48.	2.5	1
67	A Novel Deep Learning Framework on Brain Functional Networks for Early MCI Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 293-301.	1.3	23
68	Deep Chronnectome Learning via Full Bidirectional Long Short-Term Memory Networks for MCI Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 249-257.	1.3	34
69	Volume-Based Analysis of 6-Month-Old Infant Brain MRI for Autism Biomarker Identification and Early Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 411-419.	1.3	61
70	Diagnosis of Autism Spectrum Disorders Using Multi-Level High-Order Functional Networks Derived From Resting-State Functional MRI. Frontiers in Human Neuroscience, 2018, 12, 184.	2.0	71
71	Automatic Accurate Infant Cerebellar Tissue Segmentation with Densely Connected Convolutional Network. Lecture Notes in Computer Science, 2018, 11046, 233-240.	1.3	3
72	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. Composites Part A: Applied Science and Manufacturing, 2017, 95, 229-236.	7.6	116

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73	Connectivity strength-weighted sparse group representation-based brain network construction for MCI classification. <i>Human Brain Mapping</i> , 2017, 38, 2370-2383.	3.6	85
74	Few-Layer Phosphorene-Decorated Microfiber for All-Optical Thresholding and Optical Modulation. <i>Advanced Optical Materials</i> , 2017, 5, 1700026.	7.3	125
75	Sub-Micrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. <i>Advanced Functional Materials</i> , 2017, 27, 1700864.	14.9	11
76	Combination of Panaxadiol and Panaxatriol Type Saponins and Ophioponins From Shenmai Formula Attenuates Lipopolysaccharide-induced Inflammatory Injury in Cardiac Microvascular Endothelial Cells by Blocking NF-kappa B Pathway. <i>Journal of Cardiovascular Pharmacology</i> , 2017, 69, 140-146.	1.9	14
77	Electrochemical Analysis the influence of Propargyl Methanesulfonate as Electrolyte Additive for Spinel LTO Interface Layer. <i>Electrochimica Acta</i> , 2017, 241, 208-219.	5.2	30
78	Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. <i>Neuroinformatics</i> , 2017, 15, 271-284.	2.8	31
79	Multi-task diagnosis for autism spectrum disorders using multi-modality features: A multi-center study. <i>Human Brain Mapping</i> , 2017, 38, 3081-3097.	3.6	64
80	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. <i>Human Brain Mapping</i> , 2017, 38, 2865-2874.	3.6	14
81	An automated method for identifying an independent component analysis-based language-related resting-state network in brain tumor subjects for surgical planning. <i>Scientific Reports</i> , 2017, 7, 13769.	3.3	45
82	Constructing Multi-frequency High-Order Functional Connectivity Network for Diagnosis of Mild Cognitive Impairment. <i>Lecture Notes in Computer Science</i> , 2017, 10511, 9-16.	1.3	13
83	Local and Extensive Neuroplasticity in Carpal Tunnel Syndrome: A Resting-State fMRI Study. <i>Neurorehabilitation and Neural Repair</i> , 2017, 31, 898-909.	2.9	12
84	Consciousness Level and Recovery Outcome Prediction Using High-Order Brain Functional Connectivity Network. <i>Lecture Notes in Computer Science</i> , 2017, 10511, 17-24.	1.3	4
85	Inter-subject Similarity Guided Brain Network Modeling for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2017, 10541, 168-175.	1.3	6
86	Learning-based structurally-guided construction of resting-state functional correlation tensors. <i>Magnetic Resonance Imaging</i> , 2017, 43, 110-121.	1.8	17
87	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. <i>Scientific Reports</i> , 2017, 7, 6530.	3.3	102
88	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <i>Advanced Optical Materials</i> , 2017, 5, 1700257.	7.3	64
89	Ultraviolet-Visible Chiroptical Activity of Aluminum Nanostructures. <i>Small</i> , 2017, 13, 1701112.	10.0	29
90	Shoshonitic- and adakitic magmatism of the Early Paleozoic age in the Western Kunlun orogenic belt, NW China: Implications for the early evolution of the northwestern Tibetan plateau. <i>Lithos</i> , 2017, 286-287, 345-362.	1.4	23

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91	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. <i>Human Brain Mapping</i> , 2017, 38, 5019-5034.	3.6	151
92	Multiple Neuroimaging Measures for Examining Exercise-induced Neuroplasticity in Older Adults: A Quasi-experimental Study. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 102.	3.4	39
93	Test-Retest Reliability of "High-Order" Functional Connectivity in Young Healthy Adults. <i>Frontiers in Neuroscience</i> , 2017, 11, 439.	2.8	54
94	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification. , 2017, 2017, 917-922.		1
95	Multi-label Inductive Matrix Completion for Joint MGMT and IDH1 Status Prediction for Glioma Patients. <i>Lecture Notes in Computer Science</i> , 2017, 10434, 450-458.	1.3	10
96	Integration of Novel Materials and Advanced Genomic Technologies into New Vaccine Design. <i>Current Topics in Medicinal Chemistry</i> , 2017, 17, 2286-2301.	2.1	6
97	Early Brain Functional Segregation and Integration Predict Later Cognitive Performance. <i>Lecture Notes in Computer Science</i> , 2017, , 116-124.	1.3	1
98	Learning-Based Estimation of Functional Correlation Tensors in White Matter for Early Diagnosis of Mild Cognitive Impairment. <i>Lecture Notes in Computer Science</i> , 2017, 10530, 65-73.	1.3	0
99	Improving Functional MRI Registration Using Whole-Brain Functional Correlation Tensors. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 416-423.	1.3	3
100	Evaluating the Influence of Spatial Resampling for Motion Correction in Resting-State Functional MRI. <i>Frontiers in Neuroscience</i> , 2016, 10, 591.	2.8	5
101	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016, 37, 3282-3296.	3.6	204
102	Topographical Information-Based High-Order Functional Connectivity and Its Application in Abnormality Detection for Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 1095-1112.	2.6	103
103	Characterizing the Blood Oxygen Level-Dependent Fluctuations in Musculoskeletal Tumours Using Functional Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2016, 6, 36522.	3.3	6
104	PreSurgMapp: a MATLAB Toolbox for Presurgical Mapping of Eloquent Functional Areas Based on Task-Related and Resting-State Functional MRI. <i>Neuroinformatics</i> , 2016, 14, 421-438.	2.8	23
105	Estimating functional brain networks by incorporating a modularity prior. <i>NeuroImage</i> , 2016, 141, 399-407.	4.2	111
106	3D Deep Learning for Multi-modal Imaging-Guided Survival Time Prediction of Brain Tumor Patients. <i>Lecture Notes in Computer Science</i> , 2016, 9901, 212-220.	1.3	160
107	Reveal Consistent Spatial-Temporal Patterns from Dynamic Functional Connectivity for Autism Spectrum Disorder Identification. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 106-114.	1.3	22
108	Functional Connectivity Network Fusion with Dynamic Thresholding for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2016, 10019, 246-253.	1.3	10

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109	Early occipital injury affects numerosity counting but not simple arithmetic. <i>Neurocase</i> , 2016, 22, 12-21.	0.6	4
110	Correlation-Weighted Sparse Group Representation for Brain Network Construction in MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016, 9900, 37-45.	1.3	16
111	Feature Selection Based on Iterative Canonical Correlation Analysis for Automatic Diagnosis of Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , 2016, 9901, 1-8.	1.3	13
112	Ensemble Hierarchical High-Order Functional Connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016, 9901, 18-25.	1.3	15
113	Outcome Prediction for Patient with High-Grade Gliomas from Brain Functional and Structural Networks. <i>Lecture Notes in Computer Science</i> , 2016, 9901, 26-34.	1.3	29
114	Disruption of cortical integration during midazolam-induced light sedation. <i>Human Brain Mapping</i> , 2015, 36, 4247-4261.	3.6	31
115	Exploring Dynamic Brain Functional Networks Using Continuous "State-Related" Functional MRI. <i>BioMed Research International</i> , 2015, 2015, 1-8.	1.9	11
116	Functional connectivity among brain networks in continuous feedback of finger force. <i>Neuroscience</i> , 2015, 289, 134-143.	2.3	7
117	Dynamical intrinsic functional architecture of the brain during absence seizures. <i>Brain Structure and Function</i> , 2014, 219, 2001-2015.	2.3	99
118	"Awake" intraoperative functional MRI (ai-fMRI) for mapping the eloquent cortex: Is it possible in awake craniotomy?. <i>NeuroImage: Clinical</i> , 2013, 2, 132-142.	2.7	26
119	Neural correlates of numbers and mathematical terms. <i>NeuroImage</i> , 2012, 60, 230-240.	4.2	34
120	Test-retest assessment of independent component analysis-derived resting-state functional connectivity based on functional near-infrared spectroscopy. <i>NeuroImage</i> , 2011, 55, 607-615.	4.2	87
121	Is resting-state functional connectivity revealed by functional near-infrared spectroscopy test-retest reliable?. <i>Journal of Biomedical Optics</i> , 2011, 16, 067008.	2.6	34
122	Functional connectivity as revealed by independent component analysis of resting-state fNIRS measurements. <i>NeuroImage</i> , 2010, 51, 1150-1161.	4.2	144
123	Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. <i>NeuroImage</i> , 2010, 51, 1414-1424.	4.2	50
124	Altered small-world brain functional networks in children with attention deficit/hyperactivity disorder. <i>Human Brain Mapping</i> , 2009, 30, 638-649.	3.6	431