

Han Zhang

List of Publications by Year in descending order

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124
papers

4,669
citations

117625

34
h-index

118850

62
g-index

134
all docs

134
docs citations

134
times ranked

5847
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016, 37, 3282-3296.	3.6	204
3	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
4	RESTplus: an improved toolkit for resting-state functional magnetic resonance imaging data processing. <i>Science Bulletin</i> , 2019, 64, 953-954.	9.0	156
5	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
6	Functional connectivity as revealed by independent component analysis of resting-state fNIRS measurements. <i>NeuroImage</i> , 2010, 51, 1150-1161.	4.2	144
7	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
8	Few-Layer Phosphorene-Decorated Microfiber for All-Optical Thresholding and Optical Modulation. <i>Advanced Optical Materials</i> , 2017, 5, 1700026.	7.3	125
9	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 95, 229-236.	7.6	116
10	Estimating functional brain networks by incorporating a modularity prior. <i>NeuroImage</i> , 2016, 141, 399-407.	4.2	111
11	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
12	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
13	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. <i>Pattern Recognition</i> , 2019, 88, 421-430.	8.1	101
14	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
15	Dynamical intrinsic functional architecture of the brain during absence seizures. <i>Brain Structure and Function</i> , 2014, 219, 2001-2015.	2.3	99
16	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. <i>NeuroImage</i> , 2019, 185, 664-684.	4.2	91
17	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
18	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

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19	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
20	Percent amplitude of fluctuation: A simple measure for resting-state fMRI signal at single voxel level. PLoS ONE, 2020, 15, e0227021.	2.5	78
21	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
22	First-year development of modules and hubs in infant brain functional networks. NeuroImage, 2019, 185, 222-235.	4.2	70
23	Multi-task diagnosis for autism spectrum disorders using multi-modality features: A multi-center study. Human Brain Mapping, 2017, 38, 3081-3097.	3.6	64
24	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. Advanced Optical Materials, 2017, 5, 1700257.	7.3	64
25	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
26	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
27	Test-Retest Reliability of High-Order Functional Connectivity in Young Healthy Adults. Frontiers in Neuroscience, 2017, 11, 439.	2.8	54
28	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
29	A toolbox for brain network construction and classification (BrainNetClass). Human Brain Mapping, 2020, 41, 2808-2826.	3.6	52
30	Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. NeuroImage, 2010, 51, 1414-1424.	4.2	50
31	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
32	Radiation-induced brain structural and functional abnormalities in presymptomatic phase and outcome prediction. Human Brain Mapping, 2018, 39, 407-427.	3.6	46
33	An automated method for identifying an independent component analysis-based language-related resting-state network in brain tumor subjects for surgical planning. Scientific Reports, 2017, 7, 13769.	3.3	45
34	Multiple Neuroimaging Measures for Examining Exercise-induced Neuroplasticity in Older Adults: A Quasi-experimental Study. Frontiers in Aging Neuroscience, 2017, 9, 102.	3.4	39
35	High-sensitivity neuroimaging biomarkers for the identification of amnesic mild cognitive impairment based on resting-state fMRI and a triple network model. Brain Imaging and Behavior, 2019, 13, 1-14.	2.1	39
36	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

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37	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
38	The emergence of a functionally flexible brain during early infancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23904-23913.	7.1	36
39	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
40	Neural correlates of numbers and mathematical terms. <i>NeuroImage</i> , 2012, 60, 230-240.	4.2	34
41	Deep Chronnectome Learning via Full Bidirectional Long Short-Term Memory Networks for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 249-257.	1.3	34
42	Comprehensive analysis of an lncRNA-miRNA-mRNA competing endogenous RNA network in pulpitis. <i>PeerJ</i> , 2019, 7, e7135.	2.0	34
43	Disruption of cortical integration during midazolam-induced light sedation. <i>Human Brain Mapping</i> , 2015, 36, 4247-4261.	3.6	31
44	Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. <i>Neuroinformatics</i> , 2017, 15, 271-284.	2.8	31
45	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
46	Ultraviolet-Visible Chiroptical Activity of Aluminum Nanostructures. <i>Small</i> , 2017, 13, 1701112.	10.0	29
47	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
48	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
49	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 4137-4149.	8.9	27
50	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
51	Tumor Tissue Detection using Blood-Oxygen-Level-Dependent Functional MRI based on Independent Component Analysis. <i>Scientific Reports</i> , 2018, 8, 1223.	3.3	25
52	Multi-Label Nonlinear Matrix Completion With Transductive Multi-Task Feature Selection for Joint MGMT and IDH1 Status Prediction of Patient With High-Grade Gliomas. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1775-1787.	8.9	25
53	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
54	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

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55	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
56	A Novel Deep Learning Framework on Brain Functional Networks for Early MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2018, 11072, 293-301.	1.3	23
57	Disruptions of the olfactory and default mode networks in Alzheimer's disease. <i>Brain and Behavior</i> , 2019, 9, e01296.	2.2	23
58	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
59	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
60	Local Diffusion Homogeneity Provides Supplementary Information in T2DM-Related WM Microstructural Abnormality Detection. <i>Frontiers in Neuroscience</i> , 2019, 13, 63.	2.8	18
61	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
62	Learning-based structurally-guided construction of resting-state functional correlation tensors. <i>Magnetic Resonance Imaging</i> , 2017, 43, 110-121.	1.8	17
63	Existence of Functional Connectome Fingerprint during Infancy and Its Stability over Months. <i>Journal of Neuroscience</i> , 2022, 42, 377-389.	3.6	17
64	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
65	Ensemble Hierarchical High-Order Functional Connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016, 9901, 18-25.	1.3	15
66	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
67	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
68	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
69	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
70	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
71	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
72	Decoding EEG by Visual-guided Deep Neural Networks. , 2019, , .		13

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73	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
74	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
75	Development of Dynamic Functional Architecture during Early Infancy. <i>Cerebral Cortex</i> , 2020, 30, 5626-5638.	2.9	12
76	A Deep Learning Framework for Noise Component Detection from Resting-State Functional MRI. <i>Lecture Notes in Computer Science</i> , 2019, , 754-762.	1.3	12
77	Exploring Dynamic Brain Functional Networks Using Continuous "State-Related" Functional MRI. <i>BioMed Research International</i> , 2015, 2015, 1-8.	1.9	11
78	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
79	Functional MRI registration with tissue-specific patch-based functional correlation tensors. <i>Human Brain Mapping</i> , 2018, 39, 2303-2316.	3.6	11
80	Exploring diagnosis and imaging biomarkers of Parkinson's disease via iterative canonical correlation analysis based feature selection. <i>Computerized Medical Imaging and Graphics</i> , 2018, 67, 21-29.	5.8	11
81	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
82	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
83	Functional Connectivity Network Fusion with Dynamic Thresholding for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2016, 10019, 246-253.	1.3	10
84	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
85	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
86	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
87	Testicular biopsies microarray analysis reveals circRNAs are involved in the pathogenesis of non-obstructive azoospermia. <i>Aging</i> , 2020, 12, 2610-2625.	3.1	9
88	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
89	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
90	Functional connectivity among brain networks in continuous feedback of finger force. <i>Neuroscience</i> , 2015, 289, 134-143.	2.3	7

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91	Dynamic neural circuit disruptions associated with antisocial behaviors. <i>Human Brain Mapping</i> , 2021, 42, 329-344.	3.6	7
92	Dynamic Routing Capsule Networks for Mild Cognitive Impairment Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019, 2019, 620-628.	1.3	7
93	Pre-operative Overall Survival Time Prediction for Glioblastoma Patients Using Deep Learning on Both Imaging Phenotype and Genotype. <i>Lecture Notes in Computer Science</i> , 2019, 11764, 415-422.	1.3	7
94	Multiscale functional connectome abnormality predicts cognitive outcomes in subcortical ischemic vascular disease. <i>Cerebral Cortex</i> , 2022, 32, 4641-4656.	2.9	7
95	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
96	Inter-subject Similarity Guided Brain Network Modeling for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2017, 10541, 168-175.	1.3	6
97	SPLUNC1 knockout enhances LPS-induced lung injury by increasing recruitment of CD11b+Gr-1+ cells to the spleen of mice. <i>Oncology Reports</i> , 2018, 39, 358-366.	2.6	6
98	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
99	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
100	Deep attentive spatio-temporal feature learning for automatic resting-state fMRI denoising. <i>NeuroImage</i> , 2022, 254, 119127.	4.2	5
101	Early occipital injury affects numerosity counting but not simple arithmetic. <i>Neurocase</i> , 2016, 22, 12-21.	0.6	4
102	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
103	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
104	Predicting Brain Amyloid- β 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
105	Automatic Accurate Infant Cerebellar Tissue Segmentation with Densely Connected Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2018, 11046, 233-240.	1.3	3
106	Disentangled Intensive Triplet Autoencoder for Infant Functional Connectome Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 72-82.	1.3	3
107	Improving Functional MRI Registration Using Whole-Brain Functional Correlation Tensors. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 416-423.	1.3	3
108	Altered Connectedness of the Brain Chonnectome During the Progression to Alzheimer's Disease. <i>Neuroinformatics</i> , 2022, 20, 391-403.	2.8	3

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109	Overall survival time prediction for glioblastoma using multimodal deep KNN. <i>Physics in Medicine and Biology</i> , 2022, 67, 135011.	3.0	3
110	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
111	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
112	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
113	Identification of Abnormal Circuit Dynamics in Major Depressive Disorder via Multiscale Neural Modeling of Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 682-690.	1.3	2
114	Deep Granular Feature-Label Distribution Learning for Neuroimaging-Based Infant Age Prediction. <i>Lecture Notes in Computer Science</i> , 2019, 11767, 149-157.	1.3	2
115	A Computational Framework for Dissociating Development-Related from Individually Variable Flexibility in Regional Modularity Assignment in Early Infancy. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 13-21.	1.3	2
116	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification. , 2017, 2017, 917-922.		1
117	Spatiotemporal Analysis of Developing Brain Networks. <i>Frontiers in Neuroinformatics</i> , 2018, 12, 48.	2.5	1
118	Automated Parcellation of the Cortex Using Structural Connectome Harmonics. <i>Lecture Notes in Computer Science</i> , 2019, 11766, 475-483.	1.3	1
119	Early Brain Functional Segregation and Integration Predict Later Cognitive Performance. <i>Lecture Notes in Computer Science</i> , 2017, , 116-124.	1.3	1
120	Early Development of Infant Brain Complex Network. <i>Lecture Notes in Computer Science</i> , 2019, , 832-840.	1.3	1
121	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. <i>Lecture Notes in Computer Science</i> , 2020, 12267, 238-248.	1.3	1
122	A New Metric for Characterizing Dynamic Redundancy of Dense Brain Chronnectome and Its Application to Early Detection of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2020, , 3-12.	1.3	1
123	A Care Delivery Model of Temporary Transfer of Medical Workers and Equipment to Confine a Pandemic. <i>Frontiers in Medicine</i> , 2020, 7, 561864.	2.6	0
124	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