

Han Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124 papers	2,939 citations	28 h-index	50 g-index
134 ext. papers	3,904 ext. citations	4.6 avg, IF	5.52 L-index

#	Paper	IF	Citations
124	Deep Attentive Spatio-Temporal Feature Learning for Automatic Resting-State fMRI Denoising.. <i>NeuroImage</i> , 2022 , 119127	7.9	0
123	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	10.8	4
122	Common feature learning for brain tumor MRI synthesis by context-aware generative adversarial network.. <i>Medical Image Analysis</i> , 2022 , 79, 102472	15.4	1
121	Alterations of dynamic redundancy of functional brain subnetworks in Alzheimer's disease and major depression disorders.. <i>NeuroImage: Clinical</i> , 2021 , 33, 102917	5.3	0
120	Existence of Functional Connectome Fingerprint During Infancy and Its Stability Over Months. <i>Journal of Neuroscience</i> , 2021 ,	6.6	1
119	Altered Connectedness of the Brain Chronnectome During the Progression to Alzheimer's Disease. <i>Neuroinformatics</i> , 2021 , 1	3.2	2
118	Multi-Class ASD Classification via Label Distribution Learning with Class-Shared and Class-Specific Decomposition. <i>Medical Image Analysis</i> , 2021 , 75, 102294	15.4	1
117	Brainwide functional networks associated with anatomically- and functionally-defined hippocampal subfields using ultrahigh-resolution fMRI. <i>Scientific Reports</i> , 2021 , 11, 10835	4.9	1
116	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	5.9	3
115	Prediction of 7-year's conversion from subjective cognitive decline to mild cognitive impairment. <i>Human Brain Mapping</i> , 2021 , 42, 192-203	5.9	9
114	Dynamic neural circuit disruptions associated with antisocial behaviors. <i>Human Brain Mapping</i> , 2021 , 42, 329-344	5.9	1
113	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	5.3	0
112	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	5.7	1
111	Longitudinal Parcellation of the Infant Cortex Using Multi-modal Connectome Harmonics. <i>Mathematics and Visualization</i> , 2021 , 251-261	0.6	
110	Development of Dynamic Functional Architecture during Early Infancy. <i>Cerebral Cortex</i> , 2020 , 30, 5626-5638	5.38	3
109	A toolbox for brain network construction and classification (BrainNetClass). <i>Human Brain Mapping</i> , 2020 , 41, 2808-2826	5.9	18
108	Percent amplitude of fluctuation: A simple measure for resting-state fMRI signal at single voxel level. <i>PLoS ONE</i> , 2020 , 15, e0227021	3.7	30

107	Testicular biopsies microarray analysis reveals circRNAs are involved in the pathogenesis of non-obstructive azoospermia. <i>Aging</i> , 2020 , 12, 2610-2625	5.6	6
106	Multiview Feature Learning With Multiatlas-Based Functional Connectivity Networks for MCI Diagnosis. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	9
105	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	0.9	2
104	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 238-248	0.9	1
103	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	0.9	1
102	Disentangled Intensive Triplet Autoencoder for Infant Functional Connectome Fingerprinting. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 72-82	0.9	2
101	Deep Learning of Imaging Phenotype and Genotype for Predicting Overall Survival Time of Glioblastoma Patients. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2100-2109	11.7	18
100	Large-scale dynamic causal modeling of major depressive disorder based on resting-state functional magnetic resonance imaging. <i>Human Brain Mapping</i> , 2020 , 41, 865-881	5.9	21
99	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 4137-4149	11.7	11
98	Auto-GAN: Self-Supervised Collaborative Learning for Medical Image Synthesis. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 10486-10493	5	14
97	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	11.5	15
96	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 478-487	11.7	39
95	A Care Delivery Model of Temporary Transfer of Medical Workers and Equipment to Confine a Pandemic. <i>Frontiers in Medicine</i> , 2020 , 7, 561864	4.9	
94	Disruptions of the olfactory and default mode networks in Alzheimer's disease. <i>Brain and Behavior</i> , 2019 , 9, e01296	3.4	9
93	Treatment-naïve first episode depression classification based on high-order brain functional network. <i>Journal of Affective Disorders</i> , 2019 , 256, 33-41	6.6	12
92	RESTplus: an improved toolkit for resting-state functional magnetic resonance imaging data processing. <i>Science Bulletin</i> , 2019 , 64, 953-954	10.6	53
91	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	2.4	5
90	Local Diffusion Homogeneity Provides Supplementary Information in T2DM-Related WM Microstructural Abnormality Detection. <i>Frontiers in Neuroscience</i> , 2019 , 13, 63	5.1	11

89	Meta-Network Analysis of Structural Correlation Networks Provides Insights Into Brain Network Development. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 93	3.3	
88	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	4.5	10
87	Inter-Network High-Order Functional Connectivity (IN-HOFC) and its Alteration in Patients with Mild Cognitive Impairment. <i>Neuroinformatics</i> , 2019 , 17, 547-561	3.2	3
86	Sparse Multiview Task-Centralized Ensemble Learning for ASD Diagnosis Based on Age- and Sex-Related Functional Connectivity Patterns. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3141-3154	10.2	34
85	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. <i>NeuroImage</i> , 2019 , 185, 664-684	7.9	54
84	Developmental topography of cortical thickness during infancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 15855-15860	11.5	37
83	Decoding EEG by Visual-guided Deep Neural Networks 2019 ,		5
82	Comprehensive analysis of an lncRNA-miRNA-mRNA competing endogenous RNA network in pulpitis. <i>PeerJ</i> , 2019 , 7, e7135	3.1	18
81	Early Development of Infant Brain Complex Network. <i>Lecture Notes in Computer Science</i> , 2019 , 832-840	0.9	
80	A Deep Learning Framework for Noise Component Detection from Resting-State Functional MRI. <i>Lecture Notes in Computer Science</i> , 2019 , 754-762	0.9	4
79	Dynamic Routing Capsule Networks for Mild Cognitive Impairment Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019 , 2019, 620-628	0.9	4
78	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	0.9	1
77	Deep Granular Feature-Label Distribution Learning for Neuroimaging-based Infant Age Prediction. <i>Lecture Notes in Computer Science</i> , 2019 , 11767, 149-157	0.9	1
76	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	0.9	4
75	CoCa-GAN: Common-Feature-Learning-Based Context-Aware Generative Adversarial Network for Glioma Grading. <i>Lecture Notes in Computer Science</i> , 2019 , 155-163	0.9	9
74	Automated Parcellation of the Cortex Using Structural Connectome Harmonics. <i>Lecture Notes in Computer Science</i> , 2019 , 11766, 475-483	0.9	1
73	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	0.9	1
72	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	4.9	71

71	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	4.1	20
70	Strength and Similarity Guided Group-level Brain Functional Network Construction for MCI Diagnosis. <i>Pattern Recognition</i> , 2019 , 88, 421-430	7.7	70
69	First-year development of modules and hubs in infant brain functional networks. <i>NeuroImage</i> , 2019 , 185, 222-235	7.9	36
68	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	4.1	24
67	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	3.5	4
66	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification 2018 , 2017, 917-922		1
65	Functional MRI registration with tissue-specific patch-based functional correlation tensors. <i>Human Brain Mapping</i> , 2018 , 39, 2303-2316	5.9	8
64	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	7.6	8
63	Tumor Tissue Detection using Blood-Oxygen-Level-Dependent Functional MRI based on Independent Component Analysis. <i>Scientific Reports</i> , 2018 , 8, 1223	4.9	20
62	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	11.7	16
61	Radiation-induced brain structural and functional abnormalities in presymptomatic phase and outcome prediction. <i>Human Brain Mapping</i> , 2018 , 39, 407-427	5.9	25
60	Diagnosis of Autism Spectrum Disorders Using Multi-Level High-Order Functional Networks Derived From Resting-State Functional MRI. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 184	3.3	34
59	Automatic Accurate Infant Cerebellar Tissue Segmentation with Densely Connected Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2018 , 11046, 233-240	0.9	2
58	Multi-layer Large-Scale Functional Connectome Reveals Infant Brain Developmental Patterns. <i>Lecture Notes in Computer Science</i> , 2018 , 136-144	0.9	4
57	Spatiotemporal Analysis of Developing Brain Networks. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 48	3.9	0
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	0.9	16
55	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	0.9	21
54	Volume-Based Analysis of 6-Month-Old Infant Brain MRI for Autism Biomarker Identification and Early Diagnosis. <i>Lecture Notes in Computer Science</i> , 2018 , 11072, 411-419	0.9	41

53	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	8.4	82
52	Connectivity strength-weighted sparse group representation-based brain network construction for MCI classification. <i>Human Brain Mapping</i> , 2017 , 38, 2370-2383	5.9	53
51	Few-Layer Phosphorene-Decorated Microfiber for All-Optical Thresholding and Optical Modulation. <i>Advanced Optical Materials</i> , 2017 , 5, 1700026	8.1	106
50	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	15.6	11
49	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	3.1	9
48	Electrochemical Analysis the influence of Propargyl Methanesulfonate as Electrolyte Additive for Spinel LTO Interface Layer. <i>Electrochimica Acta</i> , 2017 , 241, 208-219	6.7	25
47	Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. <i>Neuroinformatics</i> , 2017 , 15, 271-284	3.2	23
46	Multi-task diagnosis for autism spectrum disorders using multi-modality features: A multi-center study. <i>Human Brain Mapping</i> , 2017 , 38, 3081-3097	5.9	50
45	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. <i>Human Brain Mapping</i> , 2017 , 38, 2865-2874	5.9	12
44	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	4.9	25
43	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	0.9	9
42	Local and Extensive Neuroplasticity in Carpal Tunnel Syndrome: A Resting-State fMRI Study. <i>Neurorehabilitation and Neural Repair</i> , 2017 , 31, 898-909	4.7	9
41	Consciousness Level and Recovery Outcome Prediction Using High-Order Brain Functional Connectivity Network. <i>Lecture Notes in Computer Science</i> , 2017 , 10511, 17-24	0.9	1
40	Inter-subject Similarity Guided Brain Network Modeling for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2017 , 10541, 168-175	0.9	3
39	Learning-based structurally-guided construction of resting-state functional correlation tensors. <i>Magnetic Resonance Imaging</i> , 2017 , 43, 110-121	3.3	16
38	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. <i>Scientific Reports</i> , 2017 , 7, 6530	4.9	62
37	2D Materials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. <i>Advanced Optical Materials</i> , 2017 , 5, 1700257	8.1	51
36	Ultraviolet-Visible Chiroptical Activity of Aluminum Nanostructures. <i>Small</i> , 2017 , 13, 1701112	11	20

35	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	2.9	15
34	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. <i>Human Brain Mapping</i> , 2017 , 38, 5019-5034	5.9	96
33	Multiple Neuroimaging Measures for Examining Exercise-induced Neuroplasticity in Older Adults: A Quasi-experimental Study. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 102	5.3	23
32	Test-Retest Reliability of "High-Order" Functional Connectivity in Young Healthy Adults. <i>Frontiers in Neuroscience</i> , 2017 , 11, 439	5.1	34
31	Integration of Novel Materials and Advanced Genomic Technologies into New Vaccine Design. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 2286-2301	3	6
30	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	0.9	8
29	Early Brain Functional Segregation and Integration Predict Later Cognitive Performance. <i>Lecture Notes in Computer Science</i> , 2017 , 116-124	0.9	1
28	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	0.9	
27	Improving Functional MRI Registration Using Whole-Brain Functional Correlation Tensors. <i>Lecture Notes in Computer Science</i> , 2017 , 10433, 416-423	0.9	2
26	Early occipital injury affects numerosity counting but not simple arithmetic. <i>Neurocase</i> , 2016 , 22, 12-21	0.8	3
25	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	0.9	109
24	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	0.9	20
23	Functional Connectivity Network Fusion with Dynamic Thresholding for MCI Diagnosis. <i>Lecture Notes in Computer Science</i> , 2016 , 10019, 246-253	0.9	7
22	Correlation-Weighted Sparse Group Representation for Brain Network Construction in MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016 , 9900, 37-45	0.9	13
21	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	0.9	8
20	Ensemble Hierarchical High-Order Functional Connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , 2016 , 9901, 18-25	0.9	11
19	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	0.9	24
18	Evaluating the Influence of Spatial Resampling for Motion Correction in Resting-State Functional MRI. <i>Frontiers in Neuroscience</i> , 2016 , 10, 591	5.1	5

17	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016 , 37, 3282-96	5.9	144
16	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	4.3	70
15	Characterizing the Blood Oxygen Level-Dependent Fluctuations in Musculoskeletal Tumours Using Functional Magnetic Resonance Imaging. <i>Scientific Reports</i> , 2016 , 6, 36522	4.9	4
14	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, 421-38	3.2	16
13	Estimating functional brain networks by incorporating a modularity prior. <i>NeuroImage</i> , 2016 , 141, 399-407	7.9	69
12	Disruption of cortical integration during midazolam-induced light sedation. <i>Human Brain Mapping</i> , 2015 , 36, 4247-61	5.9	21
11	Exploring Dynamic Brain Functional Networks Using Continuous "State-Related" Functional MRI. <i>BioMed Research International</i> , 2015 , 2015, 824710	3	9
10	Functional connectivity among brain networks in continuous feedback of finger force. <i>Neuroscience</i> , 2015 , 289, 134-43	3.9	3
9	Dynamical intrinsic functional architecture of the brain during absence seizures. <i>Brain Structure and Function</i> , 2014 , 219, 2001-15	4	82
8	"Awake" intraoperative functional MRI (ai-fMRI) for mapping the eloquent cortex: Is it possible in awake craniotomy?. <i>NeuroImage: Clinical</i> , 2012 , 2, 132-42	5.3	18
7	Neural correlates of numbers and mathematical terms. <i>NeuroImage</i> , 2012 , 60, 230-40	7.9	23
6	Test-retest assessment of independent component analysis-derived resting-state functional connectivity based on functional near-infrared spectroscopy. <i>NeuroImage</i> , 2011 , 55, 607-15	7.9	69
5	Is resting-state functional connectivity revealed by functional near-infrared spectroscopy test-retest reliable?. <i>Journal of Biomedical Optics</i> , 2011 , 16, 067008	3.5	23
4	Functional connectivity as revealed by independent component analysis of resting-state fNIRS measurements. <i>NeuroImage</i> , 2010 , 51, 1150-61	7.9	111
3	Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. <i>NeuroImage</i> , 2010 , 51, 1414-24	7.9	47
2	Altered small-world brain functional networks in children with attention-deficit/hyperactivity disorder. <i>Human Brain Mapping</i> , 2009 , 30, 638-49	5.9	363
1	Percent amplitude of fluctuation: a simple measure for resting-state fMRI signal at single voxel level		3