Han Zhang

List of Publications by Citations

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	Altered small-world brain functional networks in children with attention-deficit/hyperactivity disorder. *Human Brain Mapping*, **2009**, 30, 638-49	5.9	363
123	High-order resting-state functional connectivity network for MCI classification. *Human Brain Mapping*, **2016**, 37, 3282-96	5.9	144
122	Functional connectivity as revealed by independent component analysis of resting-state fNIRS measurements. *NeuroImage*, **2010**, 51, 1150-61	7.9	111
121	3D Deep Learning for Multi-modal Imaging-Guided Survival Time Prediction of Brain Tumor Patients. *Lecture Notes in Computer Science*, **2016**, 9901, 212-220	0.9	109
120	Few-Layer Phosphorene-Decorated Microfiber for All-Optical Thresholding and Optical Modulation. *Advanced Optical Materials*, **2017**, 5, 1700026	8.1	106
119	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. *Human Brain Mapping*, **2017**, 38, 5019-5034	5.9	96
118	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2017**, 95, 229-236	8.4	82
117	Dynamical intrinsic functional architecture of the brain during absence seizures. *Brain Structure and Function*, **2014**, 219, 2001-15	4	82
116	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. *Scientific Reports*, **2019**, 9, 1103	4.9	71
115	Topographical Information-Based High-Order Functional Connectivity and Its Application in Abnormality Detection for Mild Cognitive Impairment. *Journal of Alzheimers Disease*, **2016**, 54, 1095-1112	4.3	70
114	Strength and Similarity Guided Group-level Brain Functional Network Construction for MCI Diagnosis. *Pattern Recognition*, **2019**, 88, 421-430	7.7	70
113	Test-retest assessment of independent component analysis-derived resting-state functional connectivity based on functional near-infrared spectroscopy. *NeuroImage*, **2011**, 55, 607-15	7.9	69
112	Estimating functional brain networks by incorporating a modularity prior. *NeuroImage*, **2016**, 141, 399-407	7.9	69
111	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. *Scientific Reports*, **2017**, 7, 6530	4.9	62
110	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. *NeuroImage*, **2019**, 185, 664-684	7.9	54
109	Connectivity strength-weighted sparse group representation-based brain network construction for MCI classification. *Human Brain Mapping*, **2017**, 38, 2370-2383	5.9	53
108	RESTplus: an improved toolkit for resting-state functional magnetic resonance imaging data processing. *Science Bulletin*, **2019**, 64, 953-954	10.6	53

107	2DMaterials-Based Quantum Dots: Gateway Towards Next-Generation Optical Devices. *Advanced Optical Materials*, **2017**, 5, 1700257	8.1	51
106	Multi-task diagnosis for autism spectrum disorders using multi-modality features: A multi-center study. *Human Brain Mapping*, **2017**, 38, 3081-3097	5.9	50
105	Subject order-independent group ICA (SOI-GICA) for functional MRI data analysis. *NeuroImage*, **2010**, 51, 1414-24	7.9	47
104	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	0.9	41
103	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. *IEEE Transactions on Medical Imaging*, **2020**, 39, 478-487	11.7	39
102	Developmental topography of cortical thickness during infancy. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 15855-15860	11.5	37
101	First-year development of modules and hubs in infant brain functional networks. *NeuroImage*, **2019**, 185, 222-235	7.9	36
100	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	3.3	34
99	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	10.2	34
98	Test-Retest Reliability of "High-Order" Functional Connectivity in Young Healthy Adults. *Frontiers in Neuroscience*, **2017**, 11, 439	5.1	34
97	Percent amplitude of fluctuation: A simple measure for resting-state fMRI signal at single voxel level. *PLoS ONE*, **2020**, 15, e0227021	3.7	30
96	Electrochemical Analysis the influence of Propargyl Methanesulfonate as Electrolyte Additive for Spinel LTO Interface Layer. *Electrochimica Acta*, **2017**, 241, 208-219	6.7	25
95	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	4.9	25
94	Radiation-induced brain structural and functional abnormalities in presymptomatic phase and outcome prediction. *Human Brain Mapping*, **2018**, 39, 407-427	5.9	25
93	Outcome Prediction for Patient with High-Grade Gliomas from Brain Functional and Structural Networks. *Lecture Notes in Computer Science*, **2016**, 9901, 26-34	0.9	24
92	High-sensitivity neuroimaging biomarkers for the identification of amnestic mild cognitive impairment based on resting-state fMRI and a triple network model. *Brain Imaging and Behavior*, **2019**, 13, 1-14	4.1	24
91	Hierarchical High-Order Functional Connectivity Networks and Selective Feature Fusion for MCI Classification. *Neuroinformatics*, **2017**, 15, 271-284	3.2	23
90	Multiple Neuroimaging Measures for Examining Exercise-induced Neuroplasticity in Older Adults: A Quasi-experimental Study. *Frontiers in Aging Neuroscience*, **2017**, 9, 102	5.3	23

89	Neural correlates of numbers and mathematical terms. *NeuroImage*, **2012**, 60, 230-40	7.9	23
88	Is resting-state functional connectivity revealed by functional near-infrared spectroscopy test-retest reliable?. *Journal of Biomedical Optics*, **2011**, 16, 067008	3.5	23
87	Disruption of cortical integration during midazolam-induced light sedation. *Human Brain Mapping*, **2015**, 36, 4247-61	5.9	21
86	Large-scale dynamic causal modeling of major depressive disorder based on resting-state functional magnetic resonance imaging. *Human Brain Mapping*, **2020**, 41, 865-881	5.9	21
85	Deep Chronnectome Learning via Full Bidirectional Long Short-Term Memory Networks for MCI Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 249-257	0.9	21
84	Tumor Tissue Detection using Blood-Oxygen-Level-Dependent Functional MRI based on Independent Component Analysis. *Scientific Reports*, **2018**, 8, 1223	4.9	20
83	Reveal Consistent Spatial-Temporal Patterns from Dynamic Functional Connectivity for Autism Spectrum Disorder Identification. *Lecture Notes in Computer Science*, **2016**, 9900, 106-114	0.9	20
82	Ultraviolet-Visible Chiroptical Activity of Aluminum Nanostructures. *Small*, **2017**, 13, 1701112	11	20
81	Overall survival time prediction for high-grade glioma patients based on large-scale brain functional networks. *Brain Imaging and Behavior*, **2019**, 13, 1333-1351	4.1	20
80	A toolbox for brain network construction and classification (BrainNetClass). *Human Brain Mapping*, **2020**, 41, 2808-2826	5.9	18
79	"Awake" intraoperative functional MRI (ai-fMRI) for mapping the eloquent cortex: Is it possible in awake craniotomy?. *NeuroImage: Clinical*, **2012**, 2, 132-42	5.3	18
78	Comprehensive analysis of an lncRNA-miRNA-mRNA competing endogenous RNA network in pulpitis. *PeerJ*, **2019**, 7, e7135	3.1	18
77	Deep Learning of Imaging Phenotype and Genotype for Predicting Overall Survival Time of Glioblastoma Patients. *IEEE Transactions on Medical Imaging*, **2020**, 39, 2100-2109	11.7	18
76	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	11.7	16
75	Learning-based structurally-guided construction of resting-state functional correlation tensors. *Magnetic Resonance Imaging*, **2017**, 43, 110-121	3.3	16
74	PreSurgMapp: a MATLAB Toolbox for Presurgical Mapping of Eloquent Functional Areas Based on Task-Related and Resting-State Functional MRI. *Neuroinformatics*, **2016**, 14, 421-38	3.2	16
73	A Novel Deep Learning Framework on Brain Functional Networks for Early MCI Diagnosis. *Lecture Notes in Computer Science*, **2018**, 11072, 293-301	0.9	16
72	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. *Lithos*, **2017**, 286-287, 345-362	2.9	15

71	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	11.5	15
70	Auto-GAN: Self-Supervised Collaborative Learning for Medical Image Synthesis. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 10486-10493	5	14
69	Correlation-Weighted Sparse Group Representation for Brain Network Construction in MCI Classification. *Lecture Notes in Computer Science*, **2016**, 9900, 37-45	0.9	13
68	Can we predict subject-specific dynamic cortical thickness maps during infancy from birth?. *Human Brain Mapping*, **2017**, 38, 2865-2874	5.9	12
67	Treatment-naïve first episode depression classification based on high-order brain functional network. *Journal of Affective Disorders*, **2019**, 256, 33-41	6.6	12
66	Sub-Micrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. *Advanced Functional Materials*, **2017**, 27, 1700864	15.6	11
65	Local Diffusion Homogeneity Provides Supplementary Information in T2DM-Related WM Microstructural Abnormality Detection. *Frontiers in Neuroscience*, **2019**, 13, 63	5.1	11
64	Ensemble Hierarchical High-Order Functional Connectivity Networks for MCI Classification. *Lecture Notes in Computer Science*, **2016**, 9901, 18-25	0.9	11
63	Disentangled-Multimodal Adversarial Autoencoder: Application to Infant Age Prediction With Incomplete Multimodal Neuroimages. *IEEE Transactions on Medical Imaging*, **2020**, 39, 4137-4149	11.7	11
62	A network-based approach to identify DNA methylation and its involved molecular pathways in testicular germ cell tumors. *Journal of Cancer*, **2019**, 10, 893-902	4.5	10
61	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. *Journal of Cardiovascular Pharmacology*, **2017**, 69, 140-146	3.1	9
60	Constructing Multi-frequency High-Order Functional Connectivity Network for Diagnosis of Mild Cognitive Impairment. *Lecture Notes in Computer Science*, **2017**, 10511, 9-16	0.9	9
59	Disruptions of the olfactory and default mode networks in Alzheimer's disease. *Brain and Behavior*, **2019**, 9, e01296	3.4	9
58	Local and Extensive Neuroplasticity in Carpal Tunnel Syndrome: A Resting-State fMRI Study. *Neurorehabilitation and Neural Repair*, **2017**, 31, 898-909	4.7	9
57	Exploring Dynamic Brain Functional Networks Using Continuous "State-Related" Functional MRI. *BioMed Research International*, **2015**, 2015, 824710	3	9
56	Multiview Feature Learning With Multiatlas-Based Functional Connectivity Networks for MCI Diagnosis. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	9
55	CoCa-GAN: Common-Feature-Learning-Based Context-Aware Generative Adversarial Network for Glioma Grading. *Lecture Notes in Computer Science*, **2019**, 155-163	0.9	9
54	Prediction of 7-year's conversion from subjective cognitive decline to mild cognitive impairment. *Human Brain Mapping*, **2021**, 42, 192-203	5.9	9

53	Functional MRI registration with tissue-specific patch-based functional correlation tensors. *Human Brain Mapping*, **2018**, 39, 2303-2316	5.9	8
52	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	7.6	8
51	Feature Selection Based on Iterative Canonical Correlation Analysis for Automatic Diagnosis of Parkinson's Disease. *Lecture Notes in Computer Science*, **2016**, 9901, 1-8	0.9	8
50	Multi-label Inductive Matrix Completion for Joint MGMT and IDH1 Status Prediction for Glioma Patients. *Lecture Notes in Computer Science*, **2017**, 10434, 450-458	0.9	8
49	Functional Connectivity Network Fusion with Dynamic Thresholding for MCI Diagnosis. *Lecture Notes in Computer Science*, **2016**, 10019, 246-253	0.9	7
48	Testicular biopsies microarray analysis reveals circRNAs are involved in the pathogenesis of non-obstructive azoospermia. *Aging*, **2020**, 12, 2610-2625	5.6	6
47	Integration of Novel Materials and Advanced Genomic Technologies into New Vaccine Design. *Current Topics in Medicinal Chemistry*, **2017**, 17, 2286-2301	3	6
46	Disordered APC/C-mediated cell cycle progression and IGF1/PI3K/AKT signalling are the potential basis of Sertoli cell-only syndrome. *Andrologia*, **2019**, 51, e13288	2.4	5
45	Decoding EEG by Visual-guided Deep Neural Networks **2019**,		5
44	Evaluating the Influence of Spatial Resampling for Motion Correction in Resting-State Functional MRI. *Frontiers in Neuroscience*, **2016**, 10, 591	5.1	5
43	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	3.5	4
42	A Deep Learning Framework for Noise Component Detection from Resting-State Functional MRI. *Lecture Notes in Computer Science*, **2019**, 754-762	0.9	4
41	Dynamic Routing Capsule Networks for Mild Cognitive Impairment Diagnosis. *Lecture Notes in Computer Science*, **2019**, 2019, 620-628	0.9	4
40	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	0.9	4
39	Multi-layer Large-Scale Functional Connectome Reveals Infant Brain Developmental Patterns. *Lecture Notes in Computer Science*, **2018**, 136-144	0.9	4
38	Characterizing the Blood Oxygen Level-Dependent Fluctuations in Musculoskeletal Tumours Using Functional Magnetic Resonance Imaging. *Scientific Reports*, **2016**, 6, 36522	4.9	4
37	High-flow nasal cannula versus conventional oxygen therapy in acute COPD exacerbation with mild hypercapnia: a multicenter randomized controlled trial.. *Critical Care*, **2022**, 26, 109	10.8	4
36	Early occipital injury affects numerosity counting but not simple arithmetic. *Neurocase*, **2016**, 22, 12-21	0.8	3

#	Reference	IF	Cites
35	Inter-Network High-Order Functional Connectivity (IN-HOFC) and its Alteration in Patients with Mild Cognitive Impairment. *Neuroinformatics*, **2019**, 17, 547-561	3.2	3
34	Development of Dynamic Functional Architecture during Early Infancy. *Cerebral Cortex*, **2020**, 30, 5626-5638	5.9	3
33	Inter-subject Similarity Guided Brain Network Modeling for MCI Diagnosis. *Lecture Notes in Computer Science*, **2017**, 10541, 168-175	0.9	3
32	Functional connectivity among brain networks in continuous feedback of finger force. *Neuroscience*, **2015**, 289, 134-43	3.9	3
31	Percent amplitude of fluctuation: a simple measure for resting-state fMRI signal at single voxel level		3
30	Classification of type 2 diabetes mellitus with or without cognitive impairment from healthy controls using high-order functional connectivity. *Human Brain Mapping*, **2021**, 42, 4671-4684	5.9	3
29	Altered Connectedness of the Brain Chronnectome During the Progression to Alzheimer's Disease. *Neuroinformatics*, **2021**, 1	3.2	2
28	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	0.9	2
27	Automatic Accurate Infant Cerebellar Tissue Segmentation with Densely Connected Convolutional Network. *Lecture Notes in Computer Science*, **2018**, 11046, 233-240	0.9	2
26	Disentangled Intensive Triplet Autoencoder for Infant Functional Connectome Fingerprinting. *Lecture Notes in Computer Science*, **2020**, 12267, 72-82	0.9	2
25	Improving Functional MRI Registration Using Whole-Brain Functional Correlation Tensors. *Lecture Notes in Computer Science*, **2017**, 10433, 416-423	0.9	2
24	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification **2018**, 2017, 917-922		1
23	Consciousness Level and Recovery Outcome Prediction Using High-Order Brain Functional Connectivity Network. *Lecture Notes in Computer Science*, **2017**, 10511, 17-24	0.9	1
22	Existence of Functional Connectome Fingerprint During Infancy and Its Stability Over Months. *Journal of Neuroscience*, **2021**,	6.6	1
21	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	0.9	1
20	Deep Granular Feature-Label Distribution Learning for Neuroimaging-based Infant Age Prediction. *Lecture Notes in Computer Science*, **2019**, 11767, 149-157	0.9	1
19	Multi-Class ASD Classification via Label Distribution Learning with Class-Shared and Class-Specific Decomposition. *Medical Image Analysis*, **2021**, 75, 102294	15.4	1
18	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. *Lecture Notes in Computer Science*, **2020**, 12267, 238-248	0.9	1

17	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	0.9	1
16	Automated Parcellation of the Cortex Using Structural Connectome Harmonics. *Lecture Notes in Computer Science*, **2019**, 11766, 475-483	0.9	1
15	Multi-layer Temporal Network Analysis Reveals Increasing Temporal Reachability and Spreadability in the First Two Years of Life. *Lecture Notes in Computer Science*, **2019**, 665-672	0.9	1
14	Early Brain Functional Segregation and Integration Predict Later Cognitive Performance. *Lecture Notes in Computer Science*, **2017**, 116-124	0.9	1
13	Brainwide functional networks associated with anatomically- and functionally-defined hippocampal subfields using ultrahigh-resolution fMRI. *Scientific Reports*, **2021**, 11, 10835	4.9	1
12	Dynamic neural circuit disruptions associated with antisocial behaviors. *Human Brain Mapping*, **2021**, 42, 329-344	5.9	1
11	TCF3 Regulates the Proliferation and Apoptosis of Human Spermatogonial Stem Cells by Targeting PODXL. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 695545	5.7	1
10	Common feature learning for brain tumor MRI synthesis by context-aware generative adversarial network.. *Medical Image Analysis*, **2022**, 79, 102472	15.4	1
9	Alterations of dynamic redundancy of functional brain subnetworks in Alzheimer's disease and major depression disorders.. *NeuroImage: Clinical*, **2021**, 33, 102917	5.3	0
8	Multiscale neural modeling of resting-state fMRI reveals executive-limbic malfunction as a core mechanism in major depressive disorder. *NeuroImage: Clinical*, **2021**, 31, 102758	5.3	0
7	Spatiotemporal Analysis of Developing Brain Networks. *Frontiers in Neuroinformatics*, **2018**, 12, 48	3.9	0
6	Deep Attentive Spatio-Temporal Feature Learning for Automatic Resting-State fMRI Denoising.. *NeuroImage*, **2022**, 119127	7.9	0
5	Meta-Network Analysis of Structural Correlation Networks Provides Insights Into Brain Network Development. *Frontiers in Human Neuroscience*, **2019**, 13, 93	3.3	
4	Early Development of Infant Brain Complex Network. *Lecture Notes in Computer Science*, **2019**, 832-840	0.9	
3	Learning-Based Estimation of Functional Correlation Tensors in White Matter for Early Diagnosis of Mild Cognitive Impairment. *Lecture Notes in Computer Science*, **2017**, 10530, 65-73	0.9	
2	A Care Delivery Model of Temporary Transfer of Medical Workers and Equipment to Confine a Pandemic. *Frontiers in Medicine*, **2020**, 7, 561864	4.9	
1	Longitudinal Parcellation of the Infant Cortex Using Multi-modal Connectome Harmonics. *Mathematics and Visualization*, **2021**, 251-261	0.6	