

Zhiguo Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

88
papers

1,353
citations

471061

17
h-index

433756

31
g-index

89
all docs

89
docs citations

89
times ranked

1412
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing dynamic amplitude of low-frequency fluctuation and its relationship with dynamic functional connectivity: An application to schizophrenia. <i>NeuroImage</i> , 2018, 180, 619-631.	2.1	178
2	Transient increased thalamic-sensory connectivity and decreased whole-brain dynamism in autism. <i>NeuroImage</i> , 2019, 190, 191-204.	2.1	100
3	Alpha and gamma oscillation amplitudes synergistically predict the perception of forthcoming nociceptive stimuli. <i>Human Brain Mapping</i> , 2016, 37, 501-514.	1.9	93
4	Changes of Spontaneous Oscillatory Activity to Tonic Heat Pain. <i>PLoS ONE</i> , 2014, 9, e91052.	1.1	80
5	An fMRI-based neural marker for migraine without aura. <i>Neurology</i> , 2020, 94, e741-e751.	1.5	77
6	Entrainment of chaotic activities in brain and heart during MBSR mindfulness training. <i>Neuroscience Letters</i> , 2016, 616, 218-223.	1.0	44
7	AFCM-LSMA: New intelligent model based on LÃvy slime mould algorithm and adaptive fuzzy C-means for identification of COVID-19 infection from chest X-ray images. <i>Advanced Engineering Informatics</i> , 2021, 49, 101317.	4.0	43
8	Brain oscillations reflecting pain-related behavior in freely moving rats. <i>Pain</i> , 2018, 159, 106-118.	2.0	40
9	Real-time epileptic seizure recognition using Bayesian genetic whale optimizer and adaptive machine learning. <i>Future Generation Computer Systems</i> , 2022, 127, 426-434.	4.9	38
10	Decoding Subjective Intensity of Nociceptive Pain from Pre-stimulus and Post-stimulus Brain Activities. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 32.	1.2	36
11	Video-triggered EEG emotion public databases and current methods: A survey. <i>Brain Science Advances</i> , 2020, 6, 255-287.	0.3	31
12	Identifying inter-individual differences in pain threshold using brain connectome: a test-retest reproducible study. <i>NeuroImage</i> , 2019, 202, 116049.	2.1	28
13	EEGFuseNet: Hybrid Unsupervised Deep Feature Characterization and Fusion for High-Dimensional EEG With an Application to Emotion Recognition. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1913-1925.	2.7	28
14	Multi-stage fuzzy swarm intelligence for automatic hepatic lesion segmentation from CT scans. <i>Applied Soft Computing Journal</i> , 2020, 96, 106677.	4.1	25
15	A New Type of Fuzzy-Rule-Based System With Chaotic Swarm Intelligence for Multiclassification of Pain Perception From fMRI. <i>IEEE Transactions on Fuzzy Systems</i> , 2020, 28, 1096-1109.	6.5	24
16	Psychometric Properties of the Chinese Version of the Functional Assessment of Self-Mutilation (FASM) in Chinese Clinical Adolescents. <i>Frontiers in Psychiatry</i> , 2021, 12, 755857.	1.3	24
17	Task-related functional connectivity dynamics in a block-designed visual experiment. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 543.	1.0	23
18	Understanding psychophysiological interaction and its relations to beta series correlation. <i>Brain Imaging and Behavior</i> , 2021, 15, 958-973.	1.1	22

#	ARTICLE	IF	CITATIONS
19	Linking Attention-Based Multiscale CNN With Dynamical GCN for Driving Fatigue Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	22
20	Associations between Functional Connectivity Dynamics and BOLD Dynamics Are Heterogeneous Across Brain Networks. Frontiers in Human Neuroscience, 2017, 11, 593.	1.0	21
21	Repetitive Religious Chanting Modulates the Late-Stage Brain Response to Fear- and Stress-Provoking Pictures. Frontiers in Psychology, 2016, 7, 2055.	1.1	18
22	Abnormal transitions of dynamic functional connectivity states in bipolar disorder: A whole-brain resting-state fMRI study. Journal of Affective Disorders, 2021, 289, 7-15.	2.0	17
23	A New Regularized Adaptive Windowed Lomb Periodogram for Time-Frequency Analysis of Nonstationary Signals With Impulsive Components. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2283-2304.	2.4	16
24	Normalization of Pain-Evoked Neural Responses Using Spontaneous EEG Improves the Performance of EEG-Based Cross-Individual Pain Prediction. Frontiers in Computational Neuroscience, 2016, 10, 31.	1.2	16
25	Abnormal brain activation during emotion processing of euthymic bipolar patients taking different mood stabilizers. Brain Imaging and Behavior, 2019, 13, 905-913.	1.1	16
26	Recurrent and concurrent patterns of regional BOLD dynamics and functional connectivity dynamics in cognitive decline. Alzheimer's Research and Therapy, 2021, 13, 28.	3.0	15
27	An automated and fast approach to detect single-trial visual evoked potentials with application to brain-computer interface. Clinical Neurophysiology, 2014, 125, 2372-2383.	0.7	12
28	Characterizing the Structural Pattern Predicting Medication Response in Herpes Zoster Patients Using Multivoxel Pattern Analysis. Frontiers in Neuroscience, 2019, 13, 534.	1.4	12
29	EEG microstate correlates of emotion dynamics and stimulation content during video watching. Cerebral Cortex, 2023, 33, 523-542.	1.6	12
30	Feature selection and channel optimization for biometric identification based on visual evoked potentials. , 2014, , .		11
31	Distinct dynamic functional connectivity patterns of pain and touch thresholds: A resting-state fMRI study. Behavioural Brain Research, 2019, 375, 112142.	1.2	10
32	A novel training-free externally-regulated neurofeedback (ER-NF) system using phase-guided visual stimulation for alpha modulation. NeuroImage, 2019, 189, 688-699.	2.1	10
33	EEG Changes in Time and Time-Frequency Domain During Movement Preparation and Execution in Stroke Patients. Frontiers in Neuroscience, 2020, 14, 827.	1.4	9
34	Cortical thickness and subcortical volumes alterations in euthymic bipolar I patients treated with different mood stabilizers. Brain Imaging and Behavior, 2019, 13, 1255-1264.	1.1	8
35	Fusion analysis of gray matter and white matter in bipolar disorder by multimodal CCA-joint ICA. Journal of Affective Disorders, 2020, 263, 80-88.	2.0	8
36	Predicting Individual Pain Thresholds From Morphological Connectivity Using Structural MRI: A Multivariate Analysis Study. Frontiers in Neuroscience, 2021, 15, 615944.	1.4	8

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37	Auto-weighted centralised multi-task learning via integrating functional and structural connectivity for subjective cognitive decline diagnosis. <i>Medical Image Analysis</i> , 2021, 74, 102248.	7.0	8
38	EEG Beta-Band Spectral Entropy Can Predict the Effect of Drug Treatment on Pain in Patients With Herpes Zoster. <i>Journal of Clinical Neurophysiology</i> , 2022, 39, 166-173.	0.9	8
39	Microstate Detection in Naturalistic Electroencephalography Data: A Systematic Comparison of Topographical Clustering Strategies on an Emotional Database. <i>Frontiers in Neuroscience</i> , 2022, 16, 812624.	1.4	8
40	Estimations of the weather effects on brain functions using functional <scp>MRI</scp> : A cautionary note. <i>Human Brain Mapping</i> , 2022, , .	1.9	8
41	Adaptive window selection and smoothing of lomb periodogram for time-frequency analysis of time series. , 0, , .		7
42	Robust Adaptive Lomb Periodogram for Time-Frequency Analysis of Signals with Sinusoidal and Transient Components. , 0, , .		7
43	Influence of Individual Differences in fMRI-Based Pain Prediction Models on Between-Individual Prediction Performance. <i>Frontiers in Neuroscience</i> , 2018, 12, 569.	1.4	7
44	Magnitude and Temporal Variability of Inter-stimulus EEG Modulate the Linear Relationship Between Laser-Evoked Potentials and Fast-Pain Perception. <i>Frontiers in Neuroscience</i> , 2018, 12, 340.	1.4	7
45	Adaptive Neuro-Fuzzy Inference System-Based Chaotic Swarm Intelligence Hybrid Model for Recognition of Mild Cognitive Impairment from Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , 2019, , 23-33.	1.0	7
46	Fusion analysis of gray matter and white matter in subjective cognitive decline and mild cognitive impairment by multimodal CCA-joint ICA. <i>NeuroImage: Clinical</i> , 2021, 32, 102874.	1.4	7
47	Characterization of whole-brain task-modulated functional connectivity in response to nociceptive pain: A multisensory comparison study. <i>Human Brain Mapping</i> , 2022, 43, 1061-1075.	1.9	7
48	Deep transfer learning of structural magnetic resonance imaging fused with blood parameters improves brain age prediction. <i>Human Brain Mapping</i> , 2022, 43, 1640-1656.	1.9	7
49	An automatic muscle fiber orientation tracking algorithm using Bayesian Kalman Filter for ultrasound images. , 2015, , .		6
50	Low-density surface electromyographic patterns under electrode shift: Characterization and NMF-based classification. <i>Biomedical Signal Processing and Control</i> , 2020, 59, 101890.	3.5	6
51	Prediction of pain perception using multivariate pattern analysis of laser-evoked EEG oscillations. , 2014, , .		5
52	Lateralization Value of Low Frequency Band Beamformer Magnetoencephalography Source Imaging in Temporal Lobe Epilepsy. <i>Frontiers in Neurology</i> , 2018, 9, 829.	1.1	5
53	A new perspective on individual reliability beyond group effect for event-related potentials: A multisensory investigation and computational modeling. <i>NeuroImage</i> , 2022, 250, 118937.	2.1	5
54	Unsupervised domain selective graph convolutional network for preoperative prediction of lymph node metastasis in gastric cancer. <i>Medical Image Analysis</i> , 2022, 79, 102467.	7.0	5

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55	Robust Adaptive Channel Estimation of OFDM Systems in Time-Varying Narrowband Interference. , 0, , .		4
56	A P300-speller based on event-related spectral perturbation (ERSP). , 2012, , .		4
57	A multimodal investigation of in vivo muscle behavior: System design and data analysis. , 2014, , .		4
58	N1 Magnitude of Auditory Evoked Potentials and Spontaneous Functional Connectivity Between Bilateral Heschl's Gyrus Are Coupled at Interindividual Level. <i>Brain Connectivity</i> , 2016, 6, 496-504.	0.8	4
59	The Recognition of Driving Action Based on EEG Signals Using Wavelet-CSP Algorithm. , 2018, , .		4
60	Designing individual-specific and trial-specific models to accurately predict the intensity of nociceptive pain from single-trial fMRI responses. <i>NeuroImage</i> , 2021, 225, 117506.	2.1	4
61	A Multisensory fMRI Investigation of Nociceptive-Preferential Cortical Regions and Responses. <i>Frontiers in Neuroscience</i> , 2021, 15, 635733.	1.4	4
62	Corticomuscular coherence analysis on the static and dynamic tasks of hand movement. , 2014, , .		3
63	Multimodal Neuroimaging Predictors of Learning Performance of Sensorimotor Rhythm Up-Regulation Neurofeedback. <i>Frontiers in Neuroscience</i> , 2021, 15, 699999.	1.4	3
64	The brain's structural differences between postherpetic neuralgia and lower back pain. <i>Scientific Reports</i> , 2021, 11, 22455.	1.6	3
65	Perceived Stress Positively Relates to Insomnia Symptoms: The Moderation of Resilience in Chinese Pregnant Women During COVID-19. <i>Frontiers in Psychiatry</i> , 2022, 13, 856627.	1.3	3
66	Multi-resolution analysis of non-uniform data with jump discontinuities and impulsive noise using robust local polynomial regression. , 0, , .		2
67	A novel approach for detection of muscle boundary in ultrasound images. , 2011, , .		2
68	Detection of movement-related cortical potentials associated with emergency and non-emergency tasks. , 2018, , .		2
69	An introduction and review on innovative silicon implementations of implantable/scalp EEG chips for data acquisition, seizure/behavior detection, and brain stimulation. <i>Brain Science Advances</i> , 2020, 6, 242-254.	0.3	2
70	Using a new phase-locked visual feedback protocol to affirm simpler models for alpha dynamics. <i>Journal of Neuroscience Methods</i> , 2022, 368, 109473.	1.3	2
71	Altered task-modulated functional connectivity during emotional face processing in euthymic bipolar patients: A whole-brain psychophysiological interaction study. <i>Journal of Affective Disorders</i> , 2022, 301, 162-171.	2.0	2
72	Recursive estimation of exponential signals in impulsive noise using m-estimation. , 0, , .		1

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73	Robust local polynomial regression using M-estimator with adaptive bandwidth. , 0, , .		1
74	Detection of pain from nociceptive laser-evoked potentials using single-trial analysis and pattern recognition. , 2012, , .		1
75	A least across-segment variance (LASV) method for the correction of EEG-fMRI desynchronization. , 2017, , .		1
76	Modulation of Sustained Attention by Theta-tACS over the Lateral and Medial Frontal Cortices. Neural Plasticity, 2021, 2021, 1-12.	1.0	1
77	Combining Regional and Connectivity Metrics of Functional Magnetic Resonance Imaging and Diffusion Tensor Imaging for Individualized Prediction of Pain Sensitivity. Frontiers in Molecular Neuroscience, 2022, 15, 844146.	1.4	1
78	On the Time-frequency Analysis of Trunk Muscles During Sudden Release of Load. , 2007, , .		0
79	Awareness of form-sound correspondence in Chinese children with dyslexia: Preliminary results from event-related potentials and time frequency analyses. , 2011, , .		0
80	A new approach for single-trial detection of laser-evoked potentials and its application to pain prediction. , 2013, , .		0
81	Topographical segmentation: A new tool to optimally define temporal region-of-interests of significant difference in ERPs. , 2014, , .		0
82	Exploratory analysis of time-varying functional connectivity in a visual task. , 2015, , .		0
83	Spontaneous EEG-based normalization of pain-evoked neural responses: Effect on improving the accuracy of pain prediction. , 2016, , .		0
84	A non-negative tensor factorization approach to feature extraction for image analysis. , 2016, , .		0
85	Sliding Window Nonnegative Matrix Factorization (SW-NMF) for Robustness Low-Density Myoelectric Signals Decoding Against Electrodes Shift. , 2019, , .		0
86	A Generalized Encoding System for Alpha Oscillations Through Visual Saliency Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2731-2743.	2.7	0
87	Cross-Sessions and Cross-Paradigms Analysis for the Problem of Brain-Computer Interface Inefficiency [*] . , 2021, , .		0
88	A Novel Method to Preserve Scale-Free Property for the Inference of Dynamic Effective Connectivity Networks From fMRI. , 2022, , .		0