

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	EEG microstate correlates of emotion dynamics and stimulation content during video watching. <i>Cerebral Cortex</i> , 2023, 33, 523-542.	1.6	12
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	Combining Regional and Connectivity Metrics of Functional Magnetic Resonance Imaging and Diffusion Tensor Imaging for Individualized Prediction of Pain Sensitivity. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 844146.	1.4	1
10	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
11	A Novel Method to Preserve Scale-Free Property for the Inference of Dynamic Effective Connectivity Networks From fMRI. , 2022, , .		0
12	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
13	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
14	Estimations of the weather effects on brain functions using functional MRI : A cautionary note. <i>Human Brain Mapping</i> , 2022, , .	1.9	8
15	Understanding psychophysiological interaction and its relations to beta series correlation. <i>Brain Imaging and Behavior</i> , 2021, 15, 958-973.	1.1	22
16	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
17	Recurrent and concurrent patterns of regional BOLD dynamics and functional connectivity dynamics in cognitive decline. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 28.	3.0	15
18	Linking Attention-Based Multiscale CNN With Dynamical GCN for Driving Fatigue Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-11.	2.4	22

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19	Predicting Individual Pain Thresholds From Morphological Connectivity Using Structural MRI: A Multivariate Analysis Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 615944.	1.4	8
20	A Multisensory fMRI Investigation of Nociceptive-Preferential Cortical Regions and Responses. <i>Frontiers in Neuroscience</i> , 2021, 15, 635733.	1.4	4
21	Abnormal transitions of dynamic functional connectivity states in bipolar disorder: A whole-brain resting-state fMRI study. <i>Journal of Affective Disorders</i> , 2021, 289, 7-15.	2.0	17
22	Modulation of Sustained Attention by Theta-tACS over the Lateral and Medial Frontal Cortices. <i>Neural Plasticity</i> , 2021, 2021, 1-12.	1.0	1
23	Multimodal Neuroimaging Predictors of Learning Performance of Sensorimotor Rhythm Up-Regulation Neurofeedback. <i>Frontiers in Neuroscience</i> , 2021, 15, 699999.	1.4	3
24	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
25	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
26	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
27	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
28	The brain's structural differences between postherpetic neuralgia and lower back pain. <i>Scientific Reports</i> , 2021, 11, 22455.	1.6	3
29	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
30	Cross-Sessions and Cross-Paradigms Analysis for the Problem of Brain-Computer Interface Inefficiency. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 1-12.		0
31	Fusion analysis of gray matter and white matter in bipolar disorder by multimodal CCA-joint ICA. <i>Journal of Affective Disorders</i> , 2020, 263, 80-88.	2.0	8
32	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
33	EEG Changes in Time and Time-Frequency Domain During Movement Preparation and Execution in Stroke Patients. <i>Frontiers in Neuroscience</i> , 2020, 14, 827.	1.4	9
34	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
35	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
36	An fMRI-based neural marker for migraine without aura. <i>Neurology</i> , 2020, 94, e741-e751.	1.5	77

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37	Video-triggered EEG emotion public databases and current methods: A survey. <i>Brain Science Advances</i> , 2020, 6, 255-287.	0.3	31
38	A Generalized Encoding System for Alpha Oscillations Through Visual Saliency Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2731-2743.	2.7	0
39	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
40	Abnormal brain activation during emotion processing of euthymic bipolar patients taking different mood stabilizers. <i>Brain Imaging and Behavior</i> , 2019, 13, 905-913.	1.1	16
41	Transient increased thalamic-sensory connectivity and decreased whole-brain dynamism in autism. <i>NeuroImage</i> , 2019, 190, 191-204.	2.1	100
42	Cortical thickness and subcortical volumes alterations in euthymic bipolar I patients treated with different mood stabilizers. <i>Brain Imaging and Behavior</i> , 2019, 13, 1255-1264.	1.1	8
43	Distinct dynamic functional connectivity patterns of pain and touch thresholds: A resting-state fMRI study. <i>Behavioural Brain Research</i> , 2019, 375, 112142.	1.2	10
44	Identifying inter-individual differences in pain threshold using brain connectome: a test-retest reproducible study. <i>NeuroImage</i> , 2019, 202, 116049.	2.1	28
45	Characterizing the Structural Pattern Predicting Medication Response in Herpes Zoster Patients Using Multivoxel Pattern Analysis. <i>Frontiers in Neuroscience</i> , 2019, 13, 534.	1.4	12
46	Sliding Window Nonnegative Matrix Factorization (SW-NMF) for Robustness Low-Density Myoelectric Signals Decoding Against Electrodes Shift. , 2019, , .		0
47	A novel training-free externally-regulated neurofeedback (ER-NF) system using phase-guided visual stimulation for alpha modulation. <i>NeuroImage</i> , 2019, 189, 688-699.	2.1	10
48	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
49	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
50	Brain oscillations reflecting pain-related behavior in freely moving rats. <i>Pain</i> , 2018, 159, 106-118.	2.0	40
51	The Recognition of Driving Action Based on EEG Signals Using Wavelet-CSP Algorithm. , 2018, , .		4
52	Detection of movement-related cortical potentials associated with emergency and non-emergency tasks. , 2018, , .		2
53	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
54	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

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55	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
56	Associations between Functional Connectivity Dynamics and BOLD Dynamics Are Heterogeneous Across Brain Networks. <i>Frontiers in Human Neuroscience</i> , 2017, 11, 593.	1.0	21
57	A least across-segment variance (LASV) method for the correction of EEG-fMRI desynchronization. , 2017, , .		1
58	Normalization of Pain-Evoked Neural Responses Using Spontaneous EEG Improves the Performance of EEG-Based Cross-Individual Pain Prediction. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 31.	1.2	16
59	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
60	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
61	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
62	Spontaneous EEG-based normalization of pain-evoked neural responses: Effect on improving the accuracy of pain prediction. , 2016, , .		0
63	A non-negative tensor factorization approach to feature extraction for image analysis. , 2016, , .		0
64	Entrainment of chaotic activities in brain and heart during MBSR mindfulness training. <i>Neuroscience Letters</i> , 2016, 616, 218-223.	1.0	44
65	Repetitive Religious Chanting Modulates the Late-Stage Brain Response to Fear- and Stress-Provoking Pictures. <i>Frontiers in Psychology</i> , 2016, 7, 2055.	1.1	18
66	Task-related functional connectivity dynamics in a block-designed visual experiment. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 543.	1.0	23
67	An automatic muscle fiber orientation tracking algorithm using Bayesian Kalman Filter for ultrasound images. , 2015, , .		6
68	Exploratory analysis of time-varying functional connectivity in a visual task. , 2015, , .		0
69	Topographical segmentation: A new tool to optimally define temporal region-of-interests of significant difference in ERPs. , 2014, , .		0
70	Prediction of pain perception using multivariate pattern analysis of laser-evoked EEG oscillations. , 2014, , .		5
71	Corticomuscular coherence analysis on the static and dynamic tasks of hand movement. , 2014, , .		3
72	A multimodal investigation of in vivo muscle behavior: System design and data analysis. , 2014, , .		4

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73	Feature selection and channel optimization for biometric identification based on visual evoked potentials. , 2014, , .		11
74	An automated and fast approach to detect single-trial visual evoked potentials with application to brainâ€“computer interface. Clinical Neurophysiology, 2014, 125, 2372-2383.	0.7	12
75	Changes of Spontaneous Oscillatory Activity to Tonic Heat Pain. PLoS ONE, 2014, 9, e91052.	1.1	80
76	A new approach for single-trial detection of laser-evoked potentials and its application to pain prediction. , 2013, , .		0
77	Detection of pain from nociceptive laser-evoked potentials using single-trial analysis and pattern recognition. , 2012, , .		1
78	A P300-speller based on event-related spectral perturbation (ERSP). , 2012, , .		4
79	A New Regularized Adaptive Windowed Lomb Periodogram for Timeâ€“Frequency Analysis of Nonstationary Signals With Impulsive Components. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2283-2304.	2.4	16
80	Awareness of form-sound correspondence in Chinese children with dyslexia: Preliminary results from event-related potentials and time frequency analyses. , 2011, , .		0
81	A novel approach for detection of muscle boundary in ultrasound images. , 2011, , .		2
82	On the Time-frequency Analysis of Trunk Muscles During Sudden Release of Load. , 2007, , .		0
83	Recursive estimation of exponential signals in impulsive noise using m-estimation. , 0, , .		1
84	Robust local polynomial regression using M-estimator with adaptive bandwidth. , 0, , .		1
85	Multi-resolution analysis of non-uniform data with jump discontinuities and impulsive noise using robust local polynomial regression. , 0, , .		2
86	Adaptive window selection and smoothing of lomb periodogram for time-frequency analysis of time series. , 0, , .		7
87	Robust Adaptive Channel Estimation of OFDM Systems in Time-Varying Narrowband Interference. , 0, , .		4
88	Robust Adaptive Lomb Periodogram for Time-Frequency Analysis of Signals with Sinusoidal and Transient Components. , 0, , .		7