Peng Xu

List of Publications by Citations

131 papers	2,782 citations	31 h-index	48 g-index
145 ext. papers	3,742 ext. citations	4.2 avg, IF	5.29 L-index

#	Paper	IF	Citations
131	A comparative study of different references for EEG default mode network: the use of the infinity reference. *Clinical Neurophysiology*, **2010**, 121, 1981-91	4.3	149
130	Multivariate synchronization index for frequency recognition of SSVEP-based brain-computer interface. *Journal of Neuroscience Methods*, **2014**, 221, 32-40	3	148
129	EEG Based Emotion Recognition by Combining Functional Connectivity Network and Local Activations. *IEEE Transactions on Biomedical Engineering*, **2019**, 66, 2869-2881	5	115
128	Multiple frequencies sequential coding for SSVEP-based brain-computer interface. *PLoS ONE*, **2012**, 7, e29519	3.7	88
127	Lp norm iterative sparse solution for EEG source Localization. *IEEE Transactions on Biomedical Engineering*, **2007**, 54, 400-9	5	74
126	Efficient resting-state EEG network facilitates motor imagery performance. *Journal of Neural Engineering*, **2015**, 12, 066024	5	73
125	Regulation of Irregular Neuronal Firing by Autaptic Transmission. *Scientific Reports*, **2016**, 6, 26096	4.9	68
124	MATLAB Toolboxes for Reference Electrode Standardization Technique (REST) of Scalp EEG. *Frontiers in Neuroscience*, **2017**, 11, 601	5.1	67
123	Bidirectional control of absence seizures by the basal ganglia: a computational evidence. *PLoS Computational Biology*, **2014**, 10, e1003495	5	67
122	The hybrid BCI system for movement control by combining motor imagery and moving onset visual evoked potential. *Journal of Neural Engineering*, **2017**, 14, 026015	5	61
121	Frequency-difference-dependent stochastic resonance in neural systems. *Physical Review E*, **2017**, 96, 022415	2.4	61
120	Structural and functional correlates of motor imagery BCI performance: Insights from the patterns of fronto-parietal attention network. *NeuroImage*, **2016**, 134, 475-485	7.9	59
119	Relationships between the resting-state network and the P3: Evidence from a scalp EEG study. *Scientific Reports*, **2015**, 5, 15129	4.9	56
118	Z-score linear discriminant analysis for EEG based brain-computer interfaces. *PLoS ONE*, **2013**, 8, e74433	3.7	56
117	The Time-Varying Networks in P300: A Task-Evoked EEG Study. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2016**, 24, 725-33	4.8	52
116	EEG-Based Brain-Computer Interfaces (BCIs): A Survey of Recent Studies on Signal Sensing Technologies and Computational Intelligence Approaches and Their Applications. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2021**, 18, 1645-1666	3	49
115	Two-Stage Frequency Recognition Method Based on Correlated Component Analysis for SSVEP-Based BCI. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 1314-1323	4.8	48

114	The Dynamic Brain Networks of Motor Imagery: Time-Varying Causality Analysis of Scalp EEG. *International Journal of Neural Systems*, **2019**, 29, 1850016	6.2	47
113	Separated channel convolutional neural network to realize the training free motor imagery BCI systems. *Biomedical Signal Processing and Control*, **2019**, 49, 396-403	4.9	46
112	Predicting Inter-session Performance of SMR-Based Brain-Computer Interface Using the Spectral Entropy of Resting-State EEG. *Brain Topography*, **2015**, 28, 680-690	4.3	45
111	Correlated Component Analysis for Enhancing the Performance of SSVEP-Based Brain-Computer Interface. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 948-956	4.8	43
110	A parallel framework for simultaneous EEG/fMRI analysis: methodology and simulation. *NeuroImage*, **2010**, 52, 1123-34	7.9	43
109	Differentiating between psychogenic nonepileptic seizures and epilepsy based on common spatial pattern of weighted EEG resting networks. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1747-55	5	42
108	The extraction of motion-onset VEP BCI features based on deep learning and compressed sensing. *Journal of Neuroscience Methods*, **2017**, 275, 80-92	3	42
107	Critical Roles of the Direct GABAergic Pallido-cortical Pathway in Controlling Absence Seizures. *PLoS Computational Biology*, **2015**, 11, e1004539	5	42
106	Prediction of SSVEP-based BCI performance by the resting-state EEG network. *Journal of Neural Engineering*, **2013**, 10, 066017	5	41
105	An enhanced probabilistic LDA for multi-class brain computer interface. *PLoS ONE*, **2011**, 6, e14634	3.7	41
104	Differentiation of Schizophrenia by Combining the Spatial EEG Brain Network Patterns of Rest and Task P300. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2019**, 27, 594-602	4.8	39
103	Robust frequency recognition for SSVEP-based BCI with temporally local multivariate synchronization index. *Cognitive Neurodynamics*, **2016**, 10, 505-511	4.2	38
102	Robust removal of ocular artifacts by combining Independent Component Analysis and system identification. *Biomedical Signal Processing and Control*, **2014**, 10, 250-259	4.9	37
101	The extension of multivariate synchronization index method for SSVEP-based BCI. *Neurocomputing*, **2017**, 269, 226-231	5.4	34
100	L1 norm based common spatial patterns decomposition for scalp EEG BCI. *BioMedical Engineering OnLine*, **2013**, 12, 77	4.1	31
99	Using particle swarm to select frequency band and time interval for feature extraction of EEG based BCI. *Biomedical Signal Processing and Control*, **2014**, 10, 289-295	4.9	30
98	SSVEP response is related to functional brain network topology entrained by the flickering stimulus. *PLoS ONE*, **2013**, 8, e72654	3.7	29
97	Different Decision-Making Responses Occupy Different Brain Networks for Information Processing: A Study Based on EEG and TMS. *Cerebral Cortex*, **2019**, 29, 4119-4129	5.1	29

96	Recognizing mild cognitive impairment based on network connectivity analysis of resting EEG with zero reference. *Physiological Measurement*, **2014**, 35, 1279-98	2.9	27
95	Neuroelectric source imaging using 3SCO: a space coding algorithm based on particle swarm optimization and l0 norm constraint. *NeuroImage*, **2010**, 51, 183-205	7.9	27
94	Cortical network properties revealed by SSVEP in anesthetized rats. *Scientific Reports*, **2013**, 3, 2496	4.9	25
93	Inter-subject P300 variability relates to the efficiency of brain networks reconfigured from resting-to task-state: Evidence from a simultaneous event-related EEG-fMRI study. *NeuroImage*, **2020**, 205, 116285	7.9	25
92	Autoregressive model in the Lp norm space for EEG analysis. *Journal of Neuroscience Methods*, **2015**, 240, 170-8	3	24
91	Local temporal correlation common spatial patterns for single trial EEG classification during motor imagery. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 591216	2.8	24
90	The graph theoretical analysis of the SSVEP harmonic response networks. *Cognitive Neurodynamics*, **2015**, 9, 305-15	4.2	23
89	Prognostic variables for temporal lobe injury after intensity modulated-radiotherapy of nasopharyngeal carcinoma. *Cancer Medicine*, **2018**, 7, 557-564	4.8	23
88	Improved noninvasive intracranial pressure assessment with nonlinear kernel regression. *IEEE Transactions on Information Technology in Biomedicine*, **2010**, 14, 971-8		23
87	Simultaneous EEG-fMRI: trial level spatio-temporal fusion for hierarchically reliable information discovery. *NeuroImage*, **2014**, 99, 28-41	7.9	22
86	An efficient frequency recognition method based on likelihood ratio test for SSVEP-based BCI. *Computational and Mathematical Methods in Medicine*, **2014**, 2014, 908719	2.8	21
85	Improved wavelet entropy calculation with window functions and its preliminary application to study intracranial pressure. *Computers in Biology and Medicine*, **2013**, 43, 425-33	7	20
84	Noise-assisted multivariate empirical mode decomposition for multichannel EMG signals. *BioMedical Engineering OnLine*, **2017**, 16, 107	4.1	20
83	Altered brain connectivity in patients with psychogenic non-epileptic seizures: a scalp electroencephalography study. *Journal of International Medical Research*, **2013**, 41, 1682-90	1.4	20
82	Characterizing nonlinear relationships in functional imaging data using eigenspace maximal information canonical correlation analysis (emiCCA). *NeuroImage*, **2015**, 109, 388-401	7.9	17
81	Brain oscillations and electroencephalography scalp networks during tempo perception. *Neuroscience Bulletin*, **2013**, 29, 731-6	4.3	17
80	Transition of brain networks from an interictal to a preictal state preceding a seizure revealed by scalp EEG network analysis. *Cognitive Neurodynamics*, **2019**, 13, 175-181	4.2	17
79	Hierarchical feature fusion framework for frequency recognition in SSVEP-based BCIs. *Neural Networks*, **2019**, 119, 1-9	9.1	16

78	Predicting individual decision-making responses based on single-trial EEG. *NeuroImage*, **2020**, 206, 116333	7.9	16
77	White matter structure in loneliness: preliminary findings from diffusion tensor imaging. *NeuroReport*, **2014**, 25, 843-847	1.7	15
76	Brain Network Reconfiguration During Motor Imagery Revealed by a Large-Scale Network Analysis of Scalp EEG. *Brain Topography*, **2019**, 32, 304-314	4.3	15
75	Time-Varying Networks of Inter-Ictal Discharging Reveal Epileptogenic Zone. *Frontiers in Computational Neuroscience*, **2017**, 11, 77	3.5	14
74	Synthesis and antibacterial activity of 4"-O-heteroarylcarbamoyl derivatives of macrolide. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 5507-11	2.9	14
73	Heterogeneity of synaptic input connectivity regulates spike-based neuronal avalanches. *Neural Networks*, **2019**, 110, 91-103	9.1	14
72	Transcranial Magnetic Stimulation to the Middle Frontal Gyrus During Attention Modes Induced Dynamic Module Reconfiguration in Brain Networks. *Frontiers in Neuroinformatics*, **2019**, 13, 22	3.9	13
71	Pulse onset detection using neighbor pulse-based signal enhancement. *Medical Engineering and Physics*, **2009**, 31, 337-45	2.4	13
70	Measuring the Non-linear Directed Information Flow in Schizophrenia by Multivariate Transfer Entropy. *Frontiers in Computational Neuroscience*, **2019**, 13, 85	3.5	12
69	The enhanced information flow from visual cortex to frontal area facilitates SSVEP response: evidence from model-driven and data-driven causality analysis. *Scientific Reports*, **2015**, 5, 14765	4.9	12
68	Robust Granger Analysis in Lp Norm Space for Directed EEG Network Analysis. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2017**, 25, 1959-1969	4.8	11
67	Different Contexts in the Oddball Paradigm Induce Distinct Brain Networks in Generating the P300. *Frontiers in Human Neuroscience*, **2018**, 12, 520	3.3	11
66	An Adaptive Motion-Onset VEP-Based Brain-Computer Interface. *IEEE Transactions on Autonomous Mental Development*, **2015**, 7, 349-356		11
65	Extracting time-frequency feature of single-channel vastus medialis EMG signals for knee exercise pattern recognition. *PLoS ONE*, **2017**, 12, e0180526	3.7	11
64	Top-Down Disconnectivity in Schizophrenia During P300 Tasks. *Frontiers in Computational Neuroscience*, **2018**, 12, 33	3.5	11
63	Separated Channel Attention Convolutional Neural Network (SC-CNN-Attention) to Identify ADHD in Multi-Site Rs-fMRI Dataset. *Entropy*, **2020**, 22,	2.8	10
62	Impaired Frontoparietal Connectivity in Traumatic Individuals with Disorders of Consciousness: A Dynamic Brain Network Analysis **2020**, 11, 301-314		10
61	Subject inefficiency phenomenon of motor imagery brain-computer interface: Influence factors and potential solutions. *Brain Science Advances*, **2020**, 6, 224-241	2	9

No.	Reference	IF	Cites
60	Sparse EEG Source Localization Using LAPPS: Least Absolute l-P (0 IEEE Transactions on Biomedical Engineering, **2018**,	5	9
59	. *IEEE Access*, **2019**, 7, 40959-40968	3.5	8
58	Bacomics: a comprehensive cross area originating in the studies of various brain-apparatus conversations. *Cognitive Neurodynamics*, **2020**, 14, 425-442	4.2	8
57	Periodic Visual Stimulation Induces Resting-State Brain Network Reconfiguration. *Frontiers in Computational Neuroscience*, **2018**, 12, 21	3.5	8
56	Predicting individual decision-making responses based on the functional connectivity of resting-state EEG. *Journal of Neural Engineering*, **2019**, 16, 066025	5	8
55	The Construction of Large-Scale Cortical Networks for P300 From Scalp EEG. *IEEE Access*, **2018**, 6, 68498-68506	3.5	8
54	Lp (p ⩾1) Norm Partial Directed Coherence for Directed Network Analysis of Scalp EEGs. *Brain Topography*, **2018**, 31, 738-752	4.3	7
53	Tumor Volume Reduction After Gemcitabine Plus Cisplatin Induction Chemotherapy in Locally Advanced Nasopharyngeal Cancer: Comparison with Paclitaxel and Cisplatin Regimens. *Medical Science Monitor*, **2018**, 24, 8001-8008	3.2	7
52	Cortical Dynamic Causality Network for Auditory-Motor Tasks. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2017**, 25, 1092-1099	4.8	7
51	Reconfiguration patterns of large-scale brain networks in motor imagery. *Brain Structure and Function*, **2019**, 224, 553-566	4	7
50	. *IEEE Access*, **2019**, 7, 52467-52472	3.5	6
49	The Profiles of Non-stationarity and Non-linearity in the Time Series of Resting-State Brain Networks. *Frontiers in Neuroscience*, **2020**, 14, 493	5.1	6
48	Constructing large-scale cortical brain networks from scalp EEG with Bayesian nonnegative matrix factorization. *Neural Networks*, **2020**, 125, 338-348	9.1	5
47	Directed EEG neural network analysis by LAPPS (p⩾1) Penalized sparse Granger approach. *Neural Networks*, **2020**, 124, 213-222	9.1	5
46	Wavelet entropy characterization of elevated intracranial pressure. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2008**, 2008, 2924-7	0.9	5
45	A survey of brain network analysis by electroencephalographic signals.. *Cognitive Neurodynamics*, **2022**, 16, 17-41	4.2	5
44	Discrimination of Tourette Syndrome Based on the Spatial Patterns of the Resting-State EEG Network. *Brain Topography*, **2021**, 34, 78-87	4.3	5
43	. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 13, 383-390	3	5

42	The Time-Varying Network Patterns in Motor Imagery Revealed by Adaptive Directed Transfer Function Analysis for fMRI. *IEEE Access*, **2018**, 6, 60339-60352	3.5	5
41	An Adaptive Calibration Framework for mVEP-Based Brain-Computer Interface. *Computational and Mathematical Methods in Medicine*, **2018**, 2018, 9476432	2.8	3
40	White Matter Connectivity Pattern Associate with Characteristics of Scalp EEG Signals. *Brain Topography*, **2017**, 30, 797-809	4.3	3
39	Altered Functional Connectivity after Epileptic Seizure Revealed by Scalp EEG. *Neural Plasticity*, **2020**, 2020, 8851415	3.3	3
38	Rehabilitation of motor function in children with cerebral palsy based on motor imagery. *Cognitive Neurodynamics*, **2021**, 15, 939-948	4.2	3
37	Neural Mechanism of Affective Perception: Evidence from Phase and Causality Analysis in the Cerebral Cortex. *Neuroscience*, **2021**, 461, 44-56	3.9	3
36	Brain variability in dynamic resting-state networks identified by fuzzy entropy: a scalp EEG study. *Journal of Neural Engineering*, **2021**, 18,	5	3
35	Predictors for drug effects with brain disease: Shed new light from EEG parameters to brain connectomics. *European Journal of Pharmaceutical Sciences*, **2017**, 110, 26-36	5.1	2
34	The Growing From Adolescence to Adulthood Influences the Decision Strategy to Unfair Situations. *IEEE Transactions on Cognitive and Developmental Systems*, **2020**, 1-1	3	2
33	Robust brain causality network construction based on Bayesian multivariate autoregression. *Biomedical Signal Processing and Control*, **2020**, 58, 101864	4.9	2
32	Synthesis and antibacterial activity of 11,12-carbamate-3-O-acyl erythromycin derivatives. *Journal of Asian Natural Products Research*, **2009**, 11, 880-97	1.5	2
31	Repetitive Transcranial Magnetic Stimulation Modulates Frontal and Temporal Time-Varying EEG Network in Generalized Anxiety Disorder: A Pilot Study.. *Frontiers in Psychiatry*, **2021**, 12, 779201	5	2
30	Musical experience may help the brain respond to second language reading. *Neuropsychologia*, **2020**, 148, 107655	3.2	2
29	Variations of Clinical Target Volume Delineation for Primary Site of Nasopharyngeal Cancer Among Five Centers in China. *Frontiers in Oncology*, **2020**, 10, 1572	5.3	2
28	Clinical outcome and prognostic analysis of young adults nasopharyngeal carcinoma patients of a nonendemic area in intensity-modulated radiotherapy era. *Future Oncology*, **2019**, 15, 381-389	3.6	2
27	Correlation Analysis of EEG Brain Network With Modulated Acoustic Stimulation for Chronic Tinnitus Patients. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 156-162	4.8	2
26	Constructing EEG Large-scale Cortical Functional Network Connectivity Based on Brain Atlas by S Estimator. *IEEE Transactions on Cognitive and Developmental Systems*, **2020**, 1-1	3	1
25	Combining canonical correlation analysis and infinite reference for frequency recognition of steady-state visual evoked potential recordings: a comparison with periodogram method. *Bio-Medical Materials and Engineering*, **2014**, 24, 2901-8	1	1

24	Enhanced Z-LDA for Small Sample Size Training in Brain-Computer Interface Systems. *Computational and Mathematical Methods in Medicine*, **2015**, 2015, 680769	2.8	1
23	Time Series Mining Approach for Noninvasive Intracranial Pressure Assessment: An Investigation of Different Regularization Techniques **2009**,		1
22	Evaluation of the efficacy of the anti-ulcer oral mucosal protective agent RADoralex□ in the prevention and treatment of radiation-induced oral mucosal reactions induced during treatment of nasopharyngeal carcinoma.. *Cancer Biology and Therapy*, **2022**, 1-7	4.6	1
21	The time-varying networks of the wrist extension in post-stroke hemiplegic patients. *Cognitive Neurodynamics*,	4.2	1
20	Solving of L0 norm constrained EEG inverse problem. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 69-72	0.9	1
19	Robust Autoregression with Exogenous Input Model for System Identification and Predicting. *Electronics (Switzerland)*, **2021**, 10, 755	2.6	1
18	Noise-assisted Multivariate Empirical Mode Decomposition based Causal Decomposition for brain-physiological network in bivariate and multiscale time series. *Journal of Neural Engineering*, **2021**,	5	1
17	Altered Functional Connectivity in Children with ADHD Revealed by Scalp EEG: An ERP Study. *Neural Plasticity*, **2021**, 2021, 6615384	3.3	1
16	Decision-Feedback Stages Revealed by Hidden Markov Modeling of EEG. *International Journal of Neural Systems*, **2021**, 31, 2150031	6.2	1
15	**2019**,		1
14	A Long Short-Term Memory Network for Sparse Spatiotemporal EEG Source Imaging. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3787-3800	11.7	1
13	Vascular inflammation, atherosclerosis, and lipid metabolism and the occurrence of non-high albuminuria diabetic kidney disease: A cross-sectional study. *Diabetes and Vascular Disease Research*, **2021**, 18, 1479164121992524	3.3	1
12	Stereotactic radiosurgery with whole brain radiotherapy combined with bevacizumab in the treatment of brain metastases from NSCLC. *International Journal of Neuroscience*, **2021**, 1-8	2	1
11	Improved Graph Embedding for Robust Recognition with outliers. *Scientific Reports*, **2018**, 8, 4231	4.9	0
10	The Decision Strategies of Adolescents with Different Emotional Stabilities in Unfair Situations. *Neuroscience Bulletin*, **2021**, 37, 1481-1486	4.3	0
9	Psychoactive Effects of BS15 on Preventing Memory Dysfunction Induced by Acute Ethanol Exposure Through Modulating Intestinal Microenvironment and Improving Alcohol Metabolic Level.. *Frontiers in Microbiology*, **2022**, 13, 847468	5.7	0
8	Altered temporal variability in brain functional connectivity identified by fuzzy entropy underlines schizophrenia deficits.. *Journal of Psychiatric Research*, **2022**, 148, 315-324	5.2	0
7	Dynamic networks of P300-related process. *Cognitive Neurodynamics*,1	4.2	

List of Publications

6	Learning curve of a short time neurofeedback training: Reflection of brain network dynamics based on phase locking value. *IEEE Transactions on Cognitive and Developmental Systems*, **2021**, 1-1	3
5	The state of memory-matched distractor in working memory influence the visual attention. *PLoS ONE*, **2020**, 15, e0242721	3.7
4	The state of memory-matched distractor in working memory influence the visual attention **2020**, 15, e0242721	
3	The state of memory-matched distractor in working memory influence the visual attention **2020**, 15, e0242721	
2	The state of memory-matched distractor in working memory influence the visual attention **2020**, 15, e0242721	
1	The state of memory-matched distractor in working memory influence the visual attention **2020**, 15, e0242721	