

Shenghong He

List of Publications by Citations

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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.

99
papers

2,542
citations

28
h-index

48
g-index

115
ext. papers

3,270
ext. citations

5
avg, IF

5.34
L-index

#	Paper	IF	Citations
99	A hybrid BCI system combining P300 and SSVEP and its application to wheelchair control. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3156-66	5	218
98	An EEG-based BCI system for 2-D cursor control by combining Mu/Beta rhythm and P300 potential. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 2495-505	5	207
97	A self-training semi-supervised SVM algorithm and its application in an EEG-based brain computer interface speller system. <i>Pattern Recognition Letters</i> , 2008 , 29, 1285-1294	4.7	153
96	Three Recurrent Neural Networks and Three Numerical Methods for Solving a Repetitive Motion Planning Scheme of Redundant Robot Manipulators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1423-1434	5.5	107
95	Neural-Dynamic-Method-Based Dual-Arm CMG Scheme With Time-Varying Constraints Applied to Humanoid Robots. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 3251-62	10.3	96
94	Discrimination between control and idle states in asynchronous SSVEP-based brain switches: a pseudo-key-based approach. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2013 , 21, 435-43	4.8	94
93	Voxel selection in fMRI data analysis based on sparse representation. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2439-51	5	77
92	Robust Adaptive Beamformers Based on Worst-Case Optimization and Constraints on Magnitude Response. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 2615-2628	4.8	74
91	An asynchronous wheelchair control by hybrid EEG-EOG brain-computer interface. <i>Cognitive Neurodynamics</i> , 2014 , 8, 399-409	4.2	72
90	A Varying-Parameter Convergent-Differential Neural Network for Solving Joint-Angular-Drift Problems of Redundant Robot Manipulators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 679-689	5.5	67
89	Enhanced Motor Imagery Training Using a Hybrid BCI With Feedback. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1706-17	5	59
88	An extended EM algorithm for joint feature extraction and classification in brain-computer interfaces. <i>Neural Computation</i> , 2006 , 18, 2730-61	2.9	58
87	Surfing the internet with a BCI mouse. <i>Journal of Neural Engineering</i> , 2012 , 9, 036012	5	55
86	Motor Imagery Classification Based on Bilinear Sub-Manifold Learning of Symmetric Positive-Definite Matrices. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 504-516	4.8	47
85	Channel selection by Rayleigh coefficient maximization based genetic algorithm for classifying single-trial motor imagery EEG. <i>Neurocomputing</i> , 2013 , 121, 423-433	5.4	46
84	A brain computer interface-based explorer. <i>Journal of Neuroscience Methods</i> , 2015 , 244, 2-7	3	45
83	Decoding voluntary movements and postural tremor based on thalamic LFPs as a basis for closed-loop stimulation for essential tremor. <i>Brain Stimulation</i> , 2019 , 12, 858-867	5.1	43

82	An online semi-supervised brain-computer interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2614-23	5	38
81	Prognosis for patients with cognitive motor dissociation identified by brain-computer interface. <i>Brain</i> , 2020 , 143, 1177-1189	11.2	37
80	Blind estimation of channel parameters and source components for EEG signals: a sparse factorization approach. <i>IEEE Transactions on Neural Networks</i> , 2006 , 17, 419-31		37
79	Tricriteria Optimization-Coordination Motion of Dual-Redundant-Robot Manipulators for Complex Path Planning. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1345-1357	4.8	36
78	A Robust Adaptive Beamformer Based on Worst-Case Semi-Definite Programming. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5914-5919	4.8	35
77	A Single-Channel EOG-Based Speller. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1978-1987	4.8	34
76	Emotion-Related Consciousness Detection in Patients With Disorders of Consciousness Through an EEG-Based BCI System. <i>Frontiers in Human Neuroscience</i> , 2018 , 12, 198	3.3	32
75	A comparison study of two P300 speller paradigms for brain-computer interface. <i>Cognitive Neurodynamics</i> , 2013 , 7, 523-9	4.2	31
74	Model-Based Human Gait Recognition Via Deterministic Learning. <i>Cognitive Computation</i> , 2014 , 6, 218-229	4.1	31
73	An EEG-Based Brain Computer Interface for Emotion Recognition and Its Application in Patients with Disorder of Consciousness. <i>IEEE Transactions on Affective Computing</i> , 2019 , 1-1	5.7	30
72	Identification of psychiatric disorder subtypes from functional connectivity patterns in resting-state electroencephalography. <i>Nature Biomedical Engineering</i> , 2021 , 5, 309-323	19	28
71	Bayesian estimation of ERP components from multicondition and multichannel EEG. <i>NeuroImage</i> , 2014 , 88, 319-39	7.9	27
70	Computer-aided diagnosis of laryngeal cancer via deep learning based on laryngoscopic images. <i>EBioMedicine</i> , 2019 , 48, 92-99	8.8	24
69	An EEG-/EOG-Based Hybrid Brain-Computer Interface: Application on Controlling an Integrated Wheelchair Robotic Arm System. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1243	5.1	24
68	Crossmodal integration enhances neural representation of task-relevant features in audiovisual face perception. <i>Cerebral Cortex</i> , 2015 , 25, 384-95	5.1	23
67	A sparse representation-based algorithm for pattern localization in brain imaging data analysis. <i>PLoS ONE</i> , 2012 , 7, e50332	3.7	23
66	Bayesian electromagnetic spatio-temporal imaging of extended sources with Markov Random Field and temporal basis expansion. <i>NeuroImage</i> , 2016 , 139, 385-404	7.9	23
65	Discriminative analysis of Parkinson's disease based on whole-brain functional connectivity. <i>PLoS ONE</i> , 2015 , 10, e0124153	3.7	22

64	A Novel Three-Dimensional P300 Speller Based on Stereo Visual Stimuli. <i>IEEE Transactions on Human-Machine Systems</i> , 2018 , 48, 392-399	4.1	21
63	Detecting number processing and mental calculation in patients with disorders of consciousness using a hybrid brain-computer interface system. <i>BMC Neurology</i> , 2015 , 15, 259	3.1	21
62	Prediction of post-earthquake depressive and anxiety symptoms: a longitudinal resting-state fMRI study. <i>Scientific Reports</i> , 2014 , 4, 6423	4.9	21
61	A semi-supervised support vector machine approach for parameter setting in motor imagery-based brain computer interfaces. <i>Cognitive Neurodynamics</i> , 2010 , 4, 207-16	4.2	21
60	A Hybrid Asynchronous Brain-Computer Interface Combining SSVEP and EOG Signals. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2881-2892	5	20
59	Bilinear Regularized Locality Preserving Learning on Riemannian Graph for Motor Imagery BCI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 698-708	4.8	20
58	Distinct Interactions between Fronto-Parietal and Default Mode Networks in Impaired Consciousness. <i>Scientific Reports</i> , 2016 , 6, 38866	4.9	20
57	A hybrid brain-computer interface-based mail client. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 750934	2.8	19
56	EEG- and EOG-Based Asynchronous Hybrid BCI: A System Integrating a Speller, a Web Browser, an E-Mail Client, and a File Explorer. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 519-530	4.8	19
55	An Intention-Driven Semi-autonomous Intelligent Robotic System for Drinking. <i>Frontiers in Neurorobotics</i> , 2017 , 11, 48	3.4	18
54	An Electrooculogram-Based Interaction Method and Its Music-on-Demand Application in a Virtual Reality Environment. <i>IEEE Access</i> , 2019 , 7, 22059-22070	3.5	18
53	Closed-Loop Deep Brain Stimulation for Essential Tremor Based on Thalamic Local Field Potentials. <i>Movement Disorders</i> , 2021 , 36, 863-873	7	17
52	A Novel Audiovisual Brain-Computer Interface and Its Application in Awareness Detection. <i>Scientific Reports</i> , 2015 , 5, 9962	4.9	16
51	Alterations of brain activity and functional connectivity in transition from acute to chronic tinnitus. <i>Human Brain Mapping</i> , 2021 , 42, 485-494	5.9	14
50	An Auditory BCI System for Assisting CRS-R Behavioral Assessment in Patients with Disorders of Consciousness. <i>Scientific Reports</i> , 2016 , 6, 32917	4.9	13
49	A gaze-independent audiovisual brain-computer Interface for detecting awareness of patients with disorders of consciousness. <i>BMC Neurology</i> , 2018 , 18, 144	3.1	13
48	The Effects of Audiovisual Inputs on Solving the Cocktail Party Problem in the Human Brain: An fMRI Study. <i>Cerebral Cortex</i> , 2018 , 28, 3623-3637	5.1	12
47	Classification of symmetric positive definite matrices based on bilinear isometric Riemannian embedding. <i>Pattern Recognition</i> , 2019 , 87, 94-105	7.7	10

46	Neurofeedback-Linked Suppression of Cortical Bursts Speeds Up Movement Initiation in Healthy Motor Control: A Double-Blind Sham-Controlled Study. <i>Journal of Neuroscience</i> , 2020 , 40, 4021-4032	6.6	10
45	A new neural-dynamic control method of position and angular stabilization for autonomous quadrotor UAVs 2016 ,		9
44	Reproducibility and discriminability of brain patterns of semantic categories enhanced by congruent audiovisual stimuli. <i>PLoS ONE</i> , 2011 , 6, e20801	3.7	9
43	Two conditions for equivalence of 0-norm solution and 1-norm solution in sparse representation. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 1189-96		9
42	Decoding hand movement velocities from EEG signals during a continuous drawing task 2010 ,		8
41	Grouped sparse Bayesian learning for voxel selection in multivoxel pattern analysis of fMRI data. <i>NeuroImage</i> , 2019 , 184, 417-430	7.9	8
40	Exemplar-Based Recursive Instance Segmentation With Application to Plant Image Analysis. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	8
39	Automatic Epilepsy Detection Based on Wavelets Constructed From Data. <i>IEEE Access</i> , 2018 , 6, 53133-53140	3.5	7
38	Entraining Stepping Movements of Parkinson's Patients to Alternating Subthalamic Nucleus Deep Brain Stimulation. <i>Journal of Neuroscience</i> , 2020 , 40, 8964-8972	6.6	6
37	Chronic disorders of consciousness. <i>Experimental and Therapeutic Medicine</i> , 2017 , 14, 1277-1283	2.1	6
36	A network model for blind source extraction in various ill-conditioned cases. <i>Neural Networks</i> , 2005 , 18, 1348-56	9.1	6
35	Selective Audiovisual Semantic Integration Enabled by Feature-Selective Attention. <i>Scientific Reports</i> , 2016 , 6, 18914	4.9	6
34	EEG-based hybrid BCIs and their applications 2015 ,		5
33	An EEG-Based brain-computer interface for emotion recognition 2016 ,		5
32	Visual Fixation Assessment in Patients with Disorders of Consciousness Based on Brain-Computer Interface. <i>Neuroscience Bulletin</i> , 2018 , 34, 679-690	4.3	5
31	Enjoy driving from thought in a virtual city 2017 ,		5
30	A hybrid BCI system for 2-D asynchronous cursor control. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4205-8	0.9	5
29	Goal-Directed Processing of Naturalistic Stimuli Modulates Large-Scale Functional Connectivity. <i>Frontiers in Neuroscience</i> , 2018 , 12, 1003	5.1	5

28	The modulatory effect of semantic familiarity on the audiovisual integration of face-name pairs. <i>Human Brain Mapping</i> , 2016 , 37, 4333-4348	5.9	4
27	An EEG-based brain-computer interface for automatic sleep stage classification 2018 ,		4
26	Subthalamic beta-targeted neurofeedback speeds up movement initiation but increases tremor in Parkinsonian patients. <i>ELife</i> , 2020 , 9,	8.9	4
25	Toward improved P300 speller performance in outdoor environment using polarizer 2016 ,		4
24	Deep Unfolding With Weighted ℓ_1 Minimization for Compressive Sensing. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 3027-3041	10.7	4
23	Beta Oscillation-Targeted Neurofeedback Training Based on Subthalamic LFPs in Parkinsonian Patients. <i>International IEEE/EMBS Conference on Neural Engineering: [proceedings]</i> , 2019 , 2019, 81-84	1.3	3
22	Enhance cross-subject MEG decoding by combining Riemannian Geometry feature extraction and multi-task learning 2019 ,		2
21	Explorer based on brain computer interface 2014 ,		2
20	Spatio-temporally regularized common spatial patterns (STR-CSP) for single-trial EEG classification 2014 ,		2
19	Long-tail distribution based multiscale-multiband autoregressive detection for hyperspectral imagery. <i>Multidimensional Systems and Signal Processing</i> , 2013 , 24, 65-85	1.8	2
18	Weighted Regularized Sparse Recovery Method for Optical Power Monitoring. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 55-57	2.2	2
17	Sparse representation based hyperspectral imagery classification via expanded dictionary 2012 ,		2
16	Feature extraction with multiscale autoregression of multichannel time series for P300 speller BCI 2010 ,		2
15	Balance between competing spectral states in subthalamic nucleus is linked to motor impairment in Parkinson's disease. <i>Brain</i> , 2021 ,	11.2	2
14	A novel multi-step reinforcement learning method for solving reward hacking. <i>Applied Intelligence</i> , 2019 , 49, 2874-2888	4.9	2
13	Investigating the use of a two-stage attention-aware convolutional neural network for the automated diagnosis of otitis media from tympanic membrane images: a prediction model development and validation study. <i>BMJ Open</i> , 2021 , 11, e041139	3	2
12	Gait-Phase Modulates Alpha and Beta Oscillations in the Pedunculopontine Nucleus. <i>Journal of Neuroscience</i> , 2021 , 41, 8390-8402	6.6	2
11	Bayesian spatio-temporal decomposition for electromagnetic imaging of extended sources based on Destrieux atlas 2018 ,		1

10	A novel BCI based on 3D stereo stimuli and its application for clinical object recognition assessment 2017 ,			1
9	Robust Adaptive Microphone Array with Mainlobe and Response Ripple Control. <i>Journal of Signal Processing Systems</i> , 2011 , 63, 301-313		1.4	1
8	A Template-Matching Method for Optical Power Monitoring. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1388-1390		2.2	1
7	A sparse voxel selection approach for fMRI data analysis with multi-dimensional derivative constraints 2011 ,			1
6	Neurofeedback Training with an Electroencephalogram-based Brain-Computer Interface Enhances Emotion Regulation. <i>IEEE Transactions on Affective Computing</i> , 2021 , 1-1		5.7	1
5	Dynamic User Activity and Data Detection for Grant-free NOMA via Weighted ℓ_1 Minimization. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1		9.6	1
4	Recoverability analysis for modified compressive sensing with partially known support. <i>PLoS ONE</i> , 2014 , 9, e87985		3.7	0
3	Single-Trial EEG Classification via Orthogonal Wavelet Decomposition-Based Feature Extraction. <i>Frontiers in Neuroscience</i> , 2021 , 15, 715855		5.1	0
2	A BCI-Based Study on the Relationship Between the SSVEP and Retinal Eccentricity in Overt and Covert Attention.. <i>Frontiers in Neuroscience</i> , 2021 , 15, 746146		5.1	0
1	Compressive Sensing Based Power Allocation Optimization for Energy Harvesting IoT Nodes. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1		9.6	