## Shenghong He

List of Publications by Year in descending order

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	117453	138251
3,834	34	58
citations	h-index	g-index
115	115	3787
docs citations	times ranked	citing authors
	citations 115	3,834 34   citations h-index   115 115

SHENCHONC HE

#	Article	IF	CITATIONS
1	A Hybrid BCI System Combining P300 and SSVEP and Its Application to Wheelchair Control. IEEE Transactions on Biomedical Engineering, 2013, 60, 3156-3166.	2.5	297
2	An EEG-Based BCI System for 2-D Cursor Control by Combining Mu/Beta Rhythm and P300 Potential. IEEE Transactions on Biomedical Engineering, 2010, 57, 2495-2505.	2.5	257
3	A self-training semi-supervised SVM algorithm and its application in an EEC-based brain computer interface speller system. Pattern Recognition Letters, 2008, 29, 1285-1294.	2.6	190
4	Three Recurrent Neural Networks and Three Numerical Methods for Solving a Repetitive Motion Planning Scheme of Redundant Robot Manipulators. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1423-1434.	3.7	133
5	Discrimination Between Control and Idle States in Asynchronous SSVEP-Based Brain Switches: A Pseudo-Key-Based Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 435-443.	2.7	125
6	Neural-Dynamic-Method-Based Dual-Arm CMG Scheme With Time-Varying Constraints Applied to Humanoid Robots. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3251-3262.	7.2	121
7	Identification of psychiatric disorder subtypes from functional connectivity patterns in resting-state electroencephalography. Nature Biomedical Engineering, 2021, 5, 309-323.	11.6	100
8	Robust Adaptive Beamformers Based on Worst-Case Optimization and Constraints on Magnitude Response. IEEE Transactions on Signal Processing, 2009, 57, 2615-2628.	3.2	97
9	A Varying-Parameter Convergent-Differential Neural Network for Solving Joint-Angular-Drift Problems of Redundant Robot Manipulators. IEEE/ASME Transactions on Mechatronics, 2018, 23, 679-689.	3.7	96
10	Enhanced Motor Imagery Training Using a Hybrid BCI With Feedback. IEEE Transactions on Biomedical Engineering, 2015, 62, 1706-1717.	2.5	95
11	An asynchronous wheelchair control by hybrid EEG–EOG brain–computer interface. Cognitive Neurodynamics, 2014, 8, 399-409.	2.3	93
12	Prognosis for patients with cognitive motor dissociation identified by brain-computer interface. Brain, 2020, 143, 1177-1189.	3.7	92
13	Voxel Selection in fMRI Data Analysis Based on Sparse Representation. IEEE Transactions on Biomedical Engineering, 2009, 56, 2439-2451.	2.5	87
14	Motor Imagery Classification Based on Bilinear Sub-Manifold Learning of Symmetric Positive-Definite Matrices. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 504-516.	2.7	81
15	An EEG-Based Brain Computer Interface for Emotion Recognition and Its Application in Patients with Disorder of Consciousness. IEEE Transactions on Affective Computing, 2021, 12, 832-842.	5.7	80
16	A brain computer interface-based explorer. Journal of Neuroscience Methods, 2015, 244, 2-7.	1.3	79
17	Computer-aided diagnosis of laryngeal cancer via deep learning based on laryngoscopic images. EBioMedicine, 2019, 48, 92-99.	2.7	74
18	Surfing the internet with a BCI mouse. Journal of Neural Engineering, 2012, 9, 036012.	1.8	66

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19	An Extended EM Algorithm for Joint Feature Extraction and Classification in Brain-Computer Interfaces. Neural Computation, 2006, 18, 2730-2761.	1.3	64
20	Channel selection by Rayleigh coefficient maximization based genetic algorithm for classifying single-trial motor imagery EEG. Neurocomputing, 2013, 121, 423-433.	3.5	64
21	Decoding voluntary movements and postural tremor based on thalamic LFPs as a basis for closed-loop stimulation for essential tremor. Brain Stimulation, 2019, 12, 858-867.	0.7	61
22	Closed‣oop Deep Brain Stimulation for Essential Tremor Based on Thalamic Local Field Potentials. Movement Disorders, 2021, 36, 863-873.	2.2	52
23	Blind Estimation of Channel Parameters and Source Components for EEG Signals: A Sparse Factorization Approach. IEEE Transactions on Neural Networks, 2006, 17, 419-431.	4.8	51
24	Tricriteria Optimization-Coordination Motion of Dual-Redundant-Robot Manipulators for Complex Path Planning. IEEE Transactions on Control Systems Technology, 2018, 26, 1345-1357.	3.2	50
25	A Robust Adaptive Beamformer Based on Worst-Case Semi-Definite Programming. IEEE Transactions on Signal Processing, 2010, 58, 5914-5919.	3.2	48
26	An Online Semi-supervised Brain–Computer Interface. IEEE Transactions on Biomedical Engineering, 2013, 60, 2614-2623.	2.5	47
27	A Single-Channel EOG-Based Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1978-1987.	2.7	47
28	An EEG-/EOG-Based Hybrid Brain-Computer Interface: Application on Controlling an Integrated Wheelchair Robotic Arm System. Frontiers in Neuroscience, 2019, 13, 1243.	1.4	47
29	A Hybrid Asynchronous Brain-Computer Interface Combining SSVEP and EOG Signals. IEEE Transactions on Biomedical Engineering, 2020, 67, 2881-2892.	2.5	43
30	Model-Based Human Gait Recognition Via Deterministic Learning. Cognitive Computation, 2014, 6, 218-229.	3.6	42
31	Emotion-Related Consciousness Detection in Patients With Disorders of Consciousness Through an EEG-Based BCI System. Frontiers in Human Neuroscience, 2018, 12, 198.	1.0	42
32	EEG- and EOG-Based Asynchronous Hybrid BCI: A System Integrating a Speller, a Web Browser, an E-Mail Client, and a File Explorer. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 519-530.	2.7	40
33	A comparison study of two P300 speller paradigms for brain–computer interface. Cognitive Neurodynamics, 2013, 7, 523-529.	2.3	38
34	Bayesian estimation of ERP components from multicondition and multichannel EEG. NeuroImage, 2014, 88, 319-339.	2.1	37
35	A Novel Three-Dimensional P300 Speller Based on Stereo Visual Stimuli. IEEE Transactions on Human-Machine Systems, 2018, 48, 392-399.	2.5	37
36	Neurofeedback-Linked Suppression of Cortical β Bursts Speeds Up Movement Initiation in Healthy Motor Control: A Double-Blind Sham-Controlled Study. Journal of Neuroscience, 2020, 40, 4021-4032.	1.7	34

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37	Distinct Interactions between Fronto-Parietal and Default Mode Networks in Impaired Consciousness. Scientific Reports, 2016, 6, 38866.	1.6	33
38	An Intention-Driven Semi-autonomous Intelligent Robotic System for Drinking. Frontiers in Neurorobotics, 2017, 11, 48.	1.6	32
39	Detecting number processing and mental calculation in patients with disorders of consciousness using a hybrid brain-computer interface system. BMC Neurology, 2015, 15, 259.	0.8	31
40	Discriminative Analysis of Parkinson's Disease Based on Whole-Brain Functional Connectivity. PLoS ONE, 2015, 10, e0124153.	1.1	31
41	Bilinear Regularized Locality Preserving Learning on Riemannian Graph for Motor Imagery BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 698-708.	2.7	30
42	Bayesian electromagnetic spatio-temporal imaging of extended sources with Markov Random Field and temporal basis expansion. NeuroImage, 2016, 139, 385-404.	2.1	29
43	An Electrooculogram-Based Interaction Method and Its Music-on-Demand Application in a Virtual Reality Environment. IEEE Access, 2019, 7, 22059-22070.	2.6	29
44	Alterations of brain activity and functional connectivity in transition from acute to chronic tinnitus. Human Brain Mapping, 2021, 42, 485-494.	1.9	29
45	A Sparse Representation-Based Algorithm for Pattern Localization in Brain Imaging Data Analysis. PLoS ONE, 2012, 7, e50332.	1.1	29
46	A Novel Audiovisual Brain-Computer Interface and Its Application in Awareness Detection. Scientific Reports, 2015, 5, 9962.	1.6	28
47	Crossmodal Integration Enhances Neural Representation of Task-Relevant Features in Audiovisual Face Perception. Cerebral Cortex, 2015, 25, 384-395.	1.6	27
48	Prediction of post-earthquake depressive and anxiety symptoms: a longitudinal resting-state fMRI study. Scientific Reports, 2014, 4, 6423.	1.6	26
49	A semi-supervised support vector machine approach for parameter setting in motor imagery-based brain computer interfaces. Cognitive Neurodynamics, 2010, 4, 207-216.	2.3	25
50	The Effects of Audiovisual Inputs on Solving the Cocktail Party Problem in the Human Brain: An fMRI Study. Cerebral Cortex, 2018, 28, 3623-3637.	1.6	25
51	Balance between competing spectral states in subthalamic nucleus is linked to motor impairment in Parkinson's disease. Brain, 2022, 145, 237-250.	3.7	25
52	A Hybrid Brain-Computer Interface-Based Mail Client. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-9.	0.7	21
53	An Auditory BCI System for Assisting CRS-R Behavioral Assessment in Patients with Disorders of Consciousness. Scientific Reports, 2016, 6, 32917.	1.6	21
54	A gaze-independent audiovisual brain-computer Interface for detecting awareness of patients with disorders of consciousness. BMC Neurology, 2018, 18, 144.	0.8	21

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55	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. BMJ Open, 2021, 11, e041139.	0.8	21
56	Visual Fixation Assessment in Patients with Disorders of Consciousness Based on Brain-Computer Interface. Neuroscience Bulletin, 2018, 34, 679-690.	1.5	18
57	Subthalamic beta-targeted neurofeedback speeds up movement initiation but increases tremor in Parkinsonian patients. ELife, 2020, 9, .	2.8	17
58	Deep Unfolding With Weighted <i>â""</i> â" Minimization for Compressive Sensing. IEEE Internet of Things Journal, 2021, 8, 3027-3041.	5.5	14
59	Classification of symmetric positive definite matrices based on bilinear isometric Riemannian embedding. Pattern Recognition, 2019, 87, 94-105.	5.1	13
60	Exemplar-Based Recursive Instance Segmentation With Application to Plant Image Analysis. IEEE Transactions on Image Processing, 2020, 29, 389-404.	6.0	13
61	Automatic Epilepsy Detection Based on Wavelets Constructed From Data. IEEE Access, 2018, 6, 53133-53140.	2.6	12
62	Grouped sparse Bayesian learning for voxel selection in multivoxel pattern analysis of fMRI data. NeuroImage, 2019, 184, 417-430.	2.1	12
63	Entraining Stepping Movements of Parkinson's Patients to Alternating Subthalamic Nucleus Deep Brain Stimulation. Journal of Neuroscience, 2020, 40, 8964-8972.	1.7	12
64	Two Conditions for Equivalence of 0-Norm Solution and 1-Norm Solution in Sparse Representation. IEEE Transactions on Neural Networks, 2010, 21, 1189-1196.	4.8	11
65	Reproducibility and Discriminability of Brain Patterns of Semantic Categories Enhanced by Congruent Audiovisual Stimuli. PLoS ONE, 2011, 6, e20801.	1.1	11
66	An EEG-based brain-computer interface for automatic sleep stage classification. , 2018, , .		11
67	Gait-Phase Modulates Alpha and Beta Oscillations in the Pedunculopontine Nucleus. Journal of Neuroscience, 2021, 41, 8390-8402.	1.7	11
68	Selective Audiovisual Semantic Integration Enabled by Feature-Selective Attention. Scientific Reports, 2016, 6, 18914.	1.6	10
69	A new neural-dynamic control method of position and angular stabilization for autonomous quadrotor UAVs. , 2016, , .		10
70	An EEG-Based brain-computer interface for emotion recognition. , 2016, , .		10
71	Chronic disorders of consciousness. Experimental and Therapeutic Medicine, 2017, 14, 1277-1283.	0.8	10
72	Decoding hand movement velocities from EEG signals during a continuous drawing task. , 2010, , .		8

Decoding hand movement velocities from EEG signals during a continuous drawing task. , 2010, , . 72

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73	A network model for blind source extraction in various ill-conditioned cases. Neural Networks, 2005, 18, 1348-1356.	3.3	7
74	EEG-based hybrid BCIs and their applications. , 2015, , .		7
75	Enjoy driving from thought in a virtual city. , 2017, , .		7
76	Goal-Directed Processing of Naturalistic Stimuli Modulates Large-Scale Functional Connectivity. Frontiers in Neuroscience, 2019, 12, 1003.	1.4	7
77	A novel multi-step reinforcement learning method for solving reward hacking. Applied Intelligence, 2019, 49, 2874-2888.	3.3	7
78	The modulatory effect of semantic familiarity on the audiovisual integration of faceâ€name pairs. Human Brain Mapping, 2016, 37, 4333-4348.	1.9	6
79	Beta Oscillation-Targeted Neurofeedback Training Based on Subthalamic LFPs in Parkinsonian Patients. , 2019, 2019, 81-84.		6
80	Dynamic User Activity and Data Detection for Grant-Free NOMA via Weighted â,," <sub>2,1</sub> Minimization. IEEE Transactions on Wireless Communications, 2022, 21, 1638-1651.	6.1	6
81	A hybrid BCI system for 2-D asynchronous cursor control. , 2010, 2010, 4205-8.		5
82	Neurofeedback Training With an Electroencephalogram-Based Brain-Computer Interface Enhances Emotion Regulation. IEEE Transactions on Affective Computing, 2023, 14, 998-1011.	5.7	5
83	Feature extraction with multiscale autoregression of multichannel time series for P300 speller BCI. , 2010, , .		4
84	Toward improved P300 speller performance in outdoor environment using polarizer. , 2016, , .		4
85	An Automatic Sleep Staging Model Combining Feature Learning and Sequence Learning. , 2020, , .		4
86	Single-Trial EEG Classification via Orthogonal Wavelet Decomposition-Based Feature Extraction. Frontiers in Neuroscience, 2021, 15, 715855.	1.4	4
87	Compressive Sensing-Based Power Allocation Optimization for Energy Harvesting IoT Nodes. IEEE Transactions on Wireless Communications, 2022, 21, 4535-4548.	6.1	4
88	A Template-Matching Method for Optical Power Monitoring. IEEE Photonics Technology Letters, 2011, 23, 1388-1390.	1.3	3
89	Weighted Regularized Sparse Recovery Method for Optical Power Monitoring. IEEE Photonics Technology Letters, 2012, 24, 55-57.	1.3	3
90	Sparse representation based hyperspectral imagery classification via expanded dictionary. , 2012, , .		2

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91	Long-tail distribution based multiscale-multiband autoregressive detection for hyperspectral imagery. Multidimensional Systems and Signal Processing, 2013, 24, 65-85.	1.7	2
92	Explorer based on brain computer interface. , 2014, , .		2
93	Spatio-temporally regularized common spatial patterns (STR-CSP) for single-trial EEG classification. , 2014, , .		2
94	Enhance cross-subject MEG decoding by combining Riemannian Geometry feature extraction and multi-task learning. , 2019, , .		2
95	Assessing Meditation State Using EEG-based Permutation Entropy Features. , 2020, , .		2
96	A BCI-Based Study on the Relationship Between the SSVEP and Retinal Eccentricity in Overt and Covert Attention. Frontiers in Neuroscience, 2021, 15, 746146.	1.4	2
97	Sequentially updated least squares support vector machine with applications in online brain-computer interfaces. , 2011, , .		1
98	Robust Adaptive Microphone Array with Mainlobe and Response Ripple Control. Journal of Signal Processing Systems, 2011, 63, 301-313.	1.4	1
99	A sparse voxel selection approach for fMRI data analysis with multi-dimensional derivative constraints. , 2011, , .		1
100	Recoverability Analysis for Modified Compressive Sensing with Partially Known Support. PLoS ONE, 2014, 9, e87985.	1.1	1
101	A novel BCI based on 3D stereo stimuli and its application for clinical object recognition assessment. , 2017, , .		1
102	A BCI system for assisting visual fixation assessment in behavioral evaluation of patients with disorders of consciousness. , 2017, , .		1
103	Bayesian spatio-temporal decomposition for electromagnetic imaging of extended sources based on Destrieux atlas. , 2018, , .		1
104	Multiscale-Multivariate Autoregressive Detection for Hyperspectral Imagery. , 2010, , .		0
105	Elliptical symmetric distribution based maximal margin classification for hyperspectral imagery. , 2011, , , $\cdot$		0
106	Identifying activated brain regions from fMRI data based on blind non-negative component separation technique. , 2012, , .		0
107	Sufficient conditions for sparse recovery by weighted â,," <inf>1</inf> -constrained quadratic programming. , 2016, , .		0
108	An EEG-based mind controlled virtual-human obstacle-avoidance platform in three dimensional		0

<sup>8</sup> virtual environment. , 2017, , .

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109	Prediction of consciousness recovery in patients with disorder of consciousness using Brain-computer Interface. , 2017, , .		0
110	Multitask Learning for Common Spatial Patterns. , 2018, , .		0
111	Layer-wise Pre-training Mechanism Based on Neural Network for Epilepsy Detection. , 2020, , .		0