Yijun Wang

List of Publications by Citations

87 papers	4,826 citations	33 h-index	69 g-index
99 ext. papers	6,443 ext. citations	4.3 avg, IF	5.93 L-index

#	Paper	IF	Citations
87	High-speed spelling with a noninvasive brain-computer interface. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6058-67	11.5	433
86	A practical VEP-based brain-computer interface. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2006**, 14, 234-9	4.8	431
85	Filter bank canonical correlation analysis for implementing a high-speed SSVEP-based brain-computer interface. *Journal of Neural Engineering*, **2015**, 12, 046008	5	288
84	Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 104-112	5	271
83	Brain-computer interfaces based on visual evoked potentials. *IEEE Engineering in Medicine and Biology Magazine*, **2008**, 27, 64-71		255
82	Visual and auditory brain-computer interfaces. *IEEE Transactions on Biomedical Engineering*, **2014**, 61, 1436-47	5	249
81	Dry and noncontact EEG sensors for mobile brain-computer interfaces. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2012**, 20, 228-35	4.8	215
80	A high-speed brain speller using steady-state visual evoked potentials. *International Journal of Neural Systems*, **2014**, 24, 1450019	6.2	209
79	VEP-based brain-computer interfaces: time, frequency, and code modulations [Research Frontier]. *IEEE Computational Intelligence Magazine*, **2009**, 4, 22-26	5.6	155
78	A high-speed BCI based on code modulation VEP. *Journal of Neural Engineering*, **2011**, 8, 025015	5	153
77	A Comparison Study of Canonical Correlation Analysis Based Methods for Detecting Steady-State Visual Evoked Potentials. *PLoS ONE*, **2015**, 10, e0140703	3.7	147
76	A Benchmark Dataset for SSVEP-Based Brain-Computer Interfaces. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2017**, 25, 1746-1752	4.8	136
75	A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. *IEEE Transactions on Biomedical Engineering*, **2018**, 65, 1166-1175	5	114
74	A cell-phone-based brain-computer interface for communication in daily life. *Journal of Neural Engineering*, **2011**, 8, 025018	5	108
73	A study of the existing problems of estimating the information transfer rate in online brain-computer interfaces. *Journal of Neural Engineering*, **2013**, 10, 026014	5	103
72	BCI Competition 2003--Data set IV: an algorithm based on CSSD and FDA for classifying single-trial EEG. *IEEE Transactions on Biomedical Engineering*, **2004**, 51, 1081-6	5	95
71	Common Spatial Pattern Method for Channel Selelction in Motor Imagery Based Brain-computer Interface. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2005**, 2005, 5392-5		95

70	A collaborative brain-computer interface for improving human performance. *PLoS ONE*, **2011**, 6, e20422	3.7	82
69	Control of a 7-DOF Robotic Arm System With an SSVEP-Based BCI. *International Journal of Neural Systems*, **2018**, 28, 1850018	6.2	70
68	Enhancing performances of SSVEP-based brain-computer interfaces via exploiting inter-subject information. *Journal of Neural Engineering*, **2015**, 12, 046006	5	68
67	Amplitude and phase coupling measures for feature extraction in an EEG-based brain-computer interface. *Journal of Neural Engineering*, **2007**, 4, 120-9	5	63
66	Generating visual flickers for eliciting robust steady-state visual evoked potentials at flexible frequencies using monitor refresh rate. *PLoS ONE*, **2014**, 9, e99235	3.7	60
65	Enhance decoding of pre-movement EEG patterns for brain-computer interfaces. *Journal of Neural Engineering*, **2020**, 17, 016033	5	58
64	Implementing Over 100 Command Codes for a High-Speed Hybrid Brain-Computer Interface Using Concurrent P300 and SSVEP Features. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 3073-3082	5	52
63	Combination of high-frequency SSVEP-based BCI and computer vision for controlling a robotic arm. *Journal of Neural Engineering*, **2019**, 16, 026012	5	44
62	Detecting Glaucoma With a Portable Brain-Computer Interface for Objective Assessment of Visual Function Loss. *JAMA Ophthalmology*, **2017**, 135, 550-557	3.9	43
61	Phase synchrony measurement in motor cortex for classifying single-trial EEG during motor imagery. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2006**, 2006, 75-8		43
60	A High-Speed SSVEP-Based BCI Using Dry EEG Electrodes. *Scientific Reports*, **2018**, 8, 14708	4.9	43
59	Discriminative Canonical Pattern Matching for Single-Trial Classification of ERP Components. *IEEE Transactions on Biomedical Engineering*, **2020**, 67, 2266-2275	5	42
58	An Online Brain-Computer Interface Based on SSVEPs Measured From Non-Hair-Bearing Areas. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2017**, 25, 11-18	4.8	39
57	An online hybrid BCI system based on SSVEP and EMG. *Journal of Neural Engineering*, **2016**, 13, 026020	5	36
56	Assessing the feasibility of online SSVEP decoding in human walking using a consumer EEG headset. *Journal of NeuroEngineering and Rehabilitation*, **2014**, 11, 119	5.3	34
55	Translation of EEG spatial filters from resting to motor imagery using independent component analysis. *PLoS ONE*, **2012**, 7, e37665	3.7	34
54	Hybrid frequency and phase coding for a high-speed SSVEP-based BCI speller. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2014**, 2014, 3993-6	0.9	28
53	A Practical Mobile Dry EEG System for Human Computer Interfaces. *Lecture Notes in Computer Science*, **2013**, 649-655	0.9	28

52	BETA: A Large Benchmark Database Toward SSVEP-BCI Application. *Frontiers in Neuroscience*, **2020**, 14, 627	5.1	27
51	A Dynamic Window Recognition Algorithm for SSVEP-Based Brain-Computer Interfaces Using a Spatio-Temporal Equalizer. *International Journal of Neural Systems*, **2018**, 28, 1850028	6.2	27
50	Implementation of a brain-computer interface based on three states of motor imagery. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2007**, 2007, 5059-62		27
49	Assessing the quality of steady-state visual-evoked potentials for moving humans using a mobile electroencephalogram headset. *Frontiers in Human Neuroscience*, **2014**, 8, 182	3.3	26
48	. *IEEE Transactions on Cognitive and Developmental Systems*, **2016**, 8, 298-308	3	25
47	Polychromatic SSVEP stimuli with subtle flickering adapted to brain-display interactions. *Journal of Neural Engineering*, **2017**, 14, 016018	5	21
46	Interface, interaction, and intelligence in generalized brain-computer interfaces. *Trends in Cognitive Sciences*, **2021**, 25, 671-684	14	21
45	Lead selection for SSVEP-based brain-computer interface. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2004**, 2004, 4507-10		20
44	A novel training-free recognition method for SSVEP-based BCIs using dynamic window strategy. *Journal of Neural Engineering*, **2020**,	5	19
43	Implementing a calibration-free SSVEP-based BCI system with 160 targets. *Journal of Neural Engineering*, **2021**, 18,	5	18
42	A Novel c-VEP BCI Paradigm for Increasing the Number of Stimulus Targets Based on Grouping Modulation With Different Codes. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2018**, 26, 1178-1187	4.8	18
41	Session-to-Session Transfer in Detecting Steady-State Visual Evoked Potentials with Individual Training Data. *Lecture Notes in Computer Science*, **2016**, 253-260	0.9	15
40	A Training Data-Driven Canonical Correlation Analysis Algorithm for Designing Spatial Filters to Enhance Performance of SSVEP-Based BCIs. *International Journal of Neural Systems*, **2020**, 30, 2050020	6.2	14
39	Improving the Performance of Individually Calibrated SSVEP-BCI by Task- Discriminant Component Analysis. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 1998-2007	4.8	14
38	Effects of stimulation frequency and stimulation waveform on steady-state visual evoked potentials using a computer monitor. *Journal of Neural Engineering*, **2019**, 16, 066007	5	12
37	A study on dynamic model of steady-state visual evoked potentials. *Journal of Neural Engineering*, **2018**, 15, 046010	5	12
36	EEG-Based Brain-Computer Interfaces. *Advances in Experimental Medicine and Biology*, **2019**, 1101, 41-65	3.6	12
35	Detection of steady-state visual-evoked potential using differential canonical correlation analysis **2013**,		11

34	Combination of Augmented Reality Based Brain- Computer Interface and Computer Vision for High-Level Control of a Robotic Arm. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2020**, 28, 3140-3147	4.8	11
33	A dynamic stopping method for improving performance of steady-state visual evoked potential based brain-computer interfaces. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2015**, 2015, 1057-60	0.9	10
32	Fast detection of covert visuospatial attention using hybrid N2pc and SSVEP features. *Journal of Neural Engineering*, **2016**, 13, 066003	5	10
31	Online Voluntary Eye Blink Detection using Electrooculogram. *IEICE Proceeding Series*, **2014**, 1, 114-117		9
30	. *IEEE Access*, **2019**, 7, 85452-85461	3.5	8
29	Optimizing a dual-frequency and phase modulation method for SSVEP-based BCIs. *Journal of Neural Engineering*, **2020**, 17, 046026	5	8
28	A Brain-Computer Interface Based on Multi-Modal Attention **2007**,		7
27	An online brain-computer interface in mobile virtual reality environments. *Integrated Computer-Aided Engineering*, **2019**, 26, 345-360	5.2	7
26	Resting-State-Based Spatial Filtering for an fNIRS-Based Motor Imagery Brain-Computer Interface. *IEEE Access*, **2019**, 7, 120603-120615	3.5	6
25	Individual Identification Based on Code-Modulated Visual-Evoked Potentials. *IEEE Transactions on Information Forensics and Security*, **2019**, 14, 3206-3216	8	6
24	Cell-phone based Drowsiness Monitoring and Management system **2012**,		6
23	An Open Dataset for Wearable SSVEP-Based Brain-Computer Interfaces. *Sensors*, **2021**, 21,	3.8	6
22	Optimizing spatial properties of a new checkerboard-like visual stimulus for user-friendly SSVEP-based BCIs. *Journal of Neural Engineering*, **2021**, 18,	5	6
21	Validation of a brain-computer interface version of the digit symbol substitution test in healthy subjects. *Computers in Biology and Medicine*, **2020**, 120, 103729	7	5
20	Spatio-temporal equalization multi-window algorithm for asynchronous SSVEP-based BCI. *Journal of Neural Engineering*, **2021**, 18,	5	5
19	Simultaneous Decoding of Eccentricity and Direction Information for a Single-Flicker SSVEP BCI. *Electronics (Switzerland)*, **2019**, 8, 1554	2.6	5
18	Align and pool for EEG headset domain adaptation (ALPHA) to facilitate dry electrode based SSVEP-BCI. *IEEE Transactions on Biomedical Engineering*, **2021**, PP,	5	5
17	A Spatially-Coded Visual Brain-Computer Interface for Flexible Visual Spatial Information Decoding. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 926-933	4.8	4

16	Developing a one-channel BCI system using a dry claw-like electrode. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2016**, 2016, 5693-5696	0.9	3
15	Does frequency resolution affect the classification performance of steady-state visual evoked potentials? **2017**,		3
14	14.4: Polychromatic High-Frequency Steady-State Visual Evoked Potentials for Brain-Display Interaction. *Digest of Technical Papers SID International Symposium*, **2013**, 44, 146-149	0.5	3
13	A high-performance brain switch based on code-modulated visual evoked potentials.. *Journal of Neural Engineering*, **2022**,	5	3
12	A Dry Electrode Cap and Its Application in a Steady-State Visual Evoked Potential-Based Brain□Computer Interface. *Electronics (Switzerland)*, **2019**, 8, 1080	2.6	3
11	A High-Resolution Dry Electrode Array for SSVEP-Based Brain-Computer Interfaces **2019**,		2
10	A Benchmark Dataset for RSVP-Based Brain-Computer Interfaces. *Frontiers in Neuroscience*, **2020**, 14, 568000	5.1	2
9	Optimizing Spatial Contrast of a New Checkerboard Stimulus for Eliciting Robust SSVEPs **2019**,		2
8	A brain-computer interface based on high-frequency steady-state asymmetric visual evoked potentials. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2020**, 2020, 3090-3093	0.9	2
7	Towards a fully spatially coded brain-computer interface: simultaneous decoding of visual eccentricity and direction. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 3091-3094	0.9	2
6	Towards online applications of EEG biometrics using visual evoked potentials. *Expert Systems With Applications*, **2021**, 177, 114961	7.8	2
5	A Fast Brain Switch Based on Multi-Class Code-Modulated VEPs. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2019**, 2019, 3058-3061	0.9	1
4	11.1: Invited Paper: Brain-Display Interaction and Its Biomedical Application Using Steady-State Visual Evoked Potentials. *Digest of Technical Papers SID International Symposium*, **2015**, 46, 122-125	0.5	1
3	A Hybrid Brain-Computer Interface Based on Visual Evoked Potential and Pupillary Response.. *Frontiers in Human Neuroscience*, **2022**, 16, 834959	3.3	1
2	Estimation of Optimal Location of EEG Reference Electrode for Motor Imagery Based BCI Using fMRI		1
1	A 120-target brain-computer interface based on code-modulated visual evoked potentials.. *Journal of Neuroscience Methods*, **2022**, 375, 109597	3	1