

Yijun Wang

List of Publications by Year in Descending Order

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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.

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	A Hybrid Brain-Computer Interface Based on Visual Evoked Potential and Pupillary Response.. <i>Frontiers in Human Neuroscience</i> , 2022 , 16, 834959	3.3	1
86	A high-performance brain switch based on code-modulated visual evoked potentials.. <i>Journal of Neural Engineering</i> , 2022 ,	5	3
85	A 120-target brain-computer interface based on code-modulated visual evoked potentials.. <i>Journal of Neuroscience Methods</i> , 2022 , 375, 109597	3	1
84	Implementing a calibration-free SSVEP-based BCI system with 160 targets. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	18
83	Spatio-temporal equalization multi-window algorithm for asynchronous SSVEP-based BCI. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	5
82	Improving the Performance of Individually Calibrated SSVEP-BCI by Task- Discriminant Component Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 1998-2007	4.8	14
81	An Open Dataset for Wearable SSVEP-Based Brain-Computer Interfaces. <i>Sensors</i> , 2021 , 21,	3.8	6
80	Interface, interaction, and intelligence in generalized brain-computer interfaces. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 671-684	14	21
79	Towards online applications of EEG biometrics using visual evoked potentials. <i>Expert Systems With Applications</i> , 2021 , 177, 114961	7.8	2
78	Optimizing spatial properties of a new checkerboard-like visual stimulus for user-friendly SSVEP-based BCIs. <i>Journal of Neural Engineering</i> , 2021 , 18,	5	6
77	Align and pool for EEG headset domain adaptation (ALPHA) to facilitate dry electrode based SSVEP-BCI. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	5	5
76	A Spatially-Coded Visual Brain-Computer Interface for Flexible Visual Spatial Information Decoding. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 926-933	4.8	4
75	A Benchmark Dataset for RSVP-Based Brain-Computer Interfaces. <i>Frontiers in Neuroscience</i> , 2020 , 14, 568000	5.1	2
74	A Training Data-Driven Canonical Correlation Analysis Algorithm for Designing Spatial Filters to Enhance Performance of SSVEP-Based BCIs. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050020	6.2	14
73	Implementing Over 100 Command Codes for a High-Speed Hybrid Brain-Computer Interface Using Concurrent P300 and SSVEP Features. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 3073-3082	5	52
72	BETA: A Large Benchmark Database Toward SSVEP-BCI Application. <i>Frontiers in Neuroscience</i> , 2020 , 14, 627	5.1	27
71	Validation of a brain-computer interface version of the digit symbol substitution test in healthy subjects. <i>Computers in Biology and Medicine</i> , 2020 , 120, 103729	7	5

70	Optimizing a dual-frequency and phase modulation method for SSVEP-based BCIs. <i>Journal of Neural Engineering</i> , 2020 , 17, 046026	5	8
69	Enhance decoding of pre-movement EEG patterns for brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2020 , 17, 016033	5	58
68	Discriminative Canonical Pattern Matching for Single-Trial Classification of ERP Components. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 2266-2275	5	42
67	A brain-computer interface based on high-frequency steady-state asymmetric visual evoked potentials. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 3090-3093	0.9	2
66	Combination of Augmented Reality Based Brain- Computer Interface and Computer Vision for High-Level Control of a Robotic Arm. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 3140-3147	4.8	11
65	A novel training-free recognition method for SSVEP-based BCIs using dynamic window strategy. <i>Journal of Neural Engineering</i> , 2020 ,	5	19
64	A High-Resolution Dry Electrode Array for SSVEP-Based Brain-Computer Interfaces 2019 ,		2
63	. <i>IEEE Access</i> , 2019 , 7, 85452-85461	3.5	8
62	Resting-State-Based Spatial Filtering for an fNIRS-Based Motor Imagery Brain-Computer Interface. <i>IEEE Access</i> , 2019 , 7, 120603-120615	3.5	6
61	Effects of stimulation frequency and stimulation waveform on steady-state visual evoked potentials using a computer monitor. <i>Journal of Neural Engineering</i> , 2019 , 16, 066007	5	12
60	Individual Identification Based on Code-Modulated Visual-Evoked Potentials. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 3206-3216	8	6
59	Optimizing Spatial Contrast of a New Checkerboard Stimulus for Eliciting Robust SSVEPs 2019 ,		2
58	A Fast Brain Switch Based on Multi-Class Code-Modulated VEPs. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 3058-3061	0.9	1
57	Simultaneous Decoding of Eccentricity and Direction Information for a Single-Flicker SSVEP BCI. <i>Electronics (Switzerland)</i> , 2019 , 8, 1554	2.6	5
56	EEG-Based Brain-Computer Interfaces. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1101, 41-65	3.6	12
55	A Dry Electrode Cap and Its Application in a Steady-State Visual Evoked Potential-Based Brain-Computer Interface. <i>Electronics (Switzerland)</i> , 2019 , 8, 1080	2.6	3
54	Towards a fully spatially coded brain-computer interface: simultaneous decoding of visual eccentricity and direction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 3091-3094	0.9	2
53	An online brain-computer interface in mobile virtual reality environments. <i>Integrated Computer-Aided Engineering</i> , 2019 , 26, 345-360	5.2	7

52	Combination of high-frequency SSVEP-based BCI and computer vision for controlling a robotic arm. <i>Journal of Neural Engineering</i> , 2019 , 16, 026012	5	44
51	Control of a 7-DOF Robotic Arm System With an SSVEP-Based BCI. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850018	6.2	70
50	A study on dynamic model of steady-state visual evoked potentials. <i>Journal of Neural Engineering</i> , 2018 , 15, 046010	5	12
49	A Brain-Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 1166-1175	5	114
48	Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 104-112	5	271
47	A Dynamic Window Recognition Algorithm for SSVEP-Based Brain-Computer Interfaces Using a Spatio-Temporal Equalizer. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850028	6.2	27
46	A High-Speed SSVEP-Based BCI Using Dry EEG Electrodes. <i>Scientific Reports</i> , 2018 , 8, 14708	4.9	43
45	A Novel c-VEP BCI Paradigm for Increasing the Number of Stimulus Targets Based on Grouping Modulation With Different Codes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 1178-1187	4.8	18
44	An Online Brain-Computer Interface Based on SSVEPs Measured From Non-Hair-Bearing Areas. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 11-18	4.8	39
43	Detecting Glaucoma With a Portable Brain-Computer Interface for Objective Assessment of Visual Function Loss. <i>JAMA Ophthalmology</i> , 2017 , 135, 550-557	3.9	43
42	Polychromatic SSVEP stimuli with subtle flickering adapted to brain-display interactions. <i>Journal of Neural Engineering</i> , 2017 , 14, 016018	5	21
41	A Benchmark Dataset for SSVEP-Based Brain-Computer Interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 1746-1752	4.8	136
40	Does frequency resolution affect the classification performance of steady-state visual evoked potentials? 2017 ,		3
39	Developing a one-channel BCI system using a dry claw-like electrode. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 5693-5696	0.9	3
38	An online hybrid BCI system based on SSVEP and EMG. <i>Journal of Neural Engineering</i> , 2016 , 13, 026020	5	36
37	Session-to-Session Transfer in Detecting Steady-State Visual Evoked Potentials with Individual Training Data. <i>Lecture Notes in Computer Science</i> , 2016 , 253-260	0.9	15
36	. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2016 , 8, 298-308	3	25
35	Fast detection of covert visuospatial attention using hybrid N2pc and SSVEP features. <i>Journal of Neural Engineering</i> , 2016 , 13, 066003	5	10

34	Filter bank canonical correlation analysis for implementing a high-speed SSVEP-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2015 , 12, 046008	5	288
33	High-speed spelling with a noninvasive brain-computer interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E6058-67	11.5	433
32	A dynamic stopping method for improving performance of steady-state visual evoked potential based brain-computer interfaces. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1057-60	0.9	10
31	11.1: Invited Paper: Brain-Display Interaction and Its Biomedical Application Using Steady-State Visual Evoked Potentials. <i>Digest of Technical Papers SID International Symposium</i> , 2015 , 46, 122-125	0.5	1
30	A Comparison Study of Canonical Correlation Analysis Based Methods for Detecting Steady-State Visual Evoked Potentials. <i>PLoS ONE</i> , 2015 , 10, e0140703	3.7	147
29	Enhancing performances of SSVEP-based brain-computer interfaces via exploiting inter-subject information. <i>Journal of Neural Engineering</i> , 2015 , 12, 046006	5	68
28	Assessing the feasibility of online SSVEP decoding in human walking using a consumer EEG headset. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014 , 11, 119	5.3	34
27	Visual and auditory brain-computer interfaces. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1436-47	5	249
26	Assessing the quality of steady-state visual-evoked potentials for moving humans using a mobile electroencephalogram headset. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 182	3.3	26
25	A high-speed brain speller using steady-state visual evoked potentials. <i>International Journal of Neural Systems</i> , 2014 , 24, 1450019	6.2	209
24	Hybrid frequency and phase coding for a high-speed SSVEP-based BCI speller. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 3993-6	0.9	28
23	Generating visual flickers for eliciting robust steady-state visual evoked potentials at flexible frequencies using monitor refresh rate. <i>PLoS ONE</i> , 2014 , 9, e99235	3.7	60
22	Online Voluntary Eye Blink Detection using Electrooculogram. <i>IEICE Proceeding Series</i> , 2014 , 1, 114-117		9
21	A Practical Mobile Dry EEG System for Human Computer Interfaces. <i>Lecture Notes in Computer Science</i> , 2013 , 649-655	0.9	28
20	Detection of steady-state visual-evoked potential using differential canonical correlation analysis 2013 ,		11
19	14.4: Polychromatic High-Frequency Steady-State Visual Evoked Potentials for Brain-Display Interaction. <i>Digest of Technical Papers SID International Symposium</i> , 2013 , 44, 146-149	0.5	3
18	A study of the existing problems of estimating the information transfer rate in online brain-computer interfaces. <i>Journal of Neural Engineering</i> , 2013 , 10, 026014	5	103
17	Dry and noncontact EEG sensors for mobile brain-computer interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012 , 20, 228-35	4.8	215

16	Cell-phone based Drowsiness Monitoring and Management system 2012 ,		6
15	Translation of EEG spatial filters from resting to motor imagery using independent component analysis. <i>PLoS ONE</i> , 2012 , 7, e37665	3.7	34
14	A cell-phone-based brain-computer interface for communication in daily life. <i>Journal of Neural Engineering</i> , 2011 , 8, 025018	5	108
13	A high-speed BCI based on code modulation VEP. <i>Journal of Neural Engineering</i> , 2011 , 8, 025015	5	153
12	A collaborative brain-computer interface for improving human performance. <i>PLoS ONE</i> , 2011 , 6, e20422	3.7	82
11	VEP-based brain-computer interfaces: time, frequency, and code modulations [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , 2009 , 4, 22-26	5.6	155
10	Brain-computer interfaces based on visual evoked potentials. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2008 , 27, 64-71		255
9	Implementation of a brain-computer interface based on three states of motor imagery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5059-62		27
8	Amplitude and phase coupling measures for feature extraction in an EEG-based brain-computer interface. <i>Journal of Neural Engineering</i> , 2007 , 4, 120-9	5	63
7	A Brain-Computer Interface Based on Multi-Modal Attention 2007 ,		7
6	A practical VEP-based brain-computer interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2006 , 14, 234-9	4.8	431
5	Phase synchrony measurement in motor cortex for classifying single-trial EEG during motor imagery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 75-8		43
4	Common Spatial Pattern Method for Channel Selection in Motor Imagery Based Brain-computer Interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 5392-5		95
3	BCI Competition 2003--Data set IV: an algorithm based on CSSD and FDA for classifying single-trial EEG. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1081-6	5	95
2	Lead selection for SSVEP-based brain-computer interface. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2004 , 2004, 4507-10		20
1	Estimation of Optimal Location of EEG Reference Electrode for Motor Imagery Based BCI Using fMRI		1