Xiaogang Chen

List of Publications by Year
in descending order

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46 papers	3,343 citations	331670 21 h-index	315739 38 g-index
48 all docs	48 docs citations	48 times ranked	1438 citing authors

#	Article	IF	Citations
1	High-speed spelling with a noninvasive brainâ€“computer interface. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6058-67.	7.1	671
2	Enhancing Detection of SSVEPs for a High-Speed Brain Speller Using Task-Related Component Analysis. IEEE Transactions on Biomedical Engineering, 2018, 65, 104-112.	4.2	493
3	Filter bank canonical correlation analysis for implementing a high-speed SSVEP-based brainâ€“computer interface. Journal of Neural Engineering, 2015, 12, 046008.	3.5	481
4	A Benchmark Dataset for SSVEP-Based Brainâ€“Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 1746-1752.	4.9	260
5	A high-ITR SSVEP-based BCI speller. Brain-Computer Interfaces, 2014, 1, 181-191.	1.8	216
6	Control of a 7-DOF Robotic Arm System With an SSVEP-Based BCI. International Journal of Neural Systems, 2018, 28, 1850018.	5.2	123
7	Enhancing performances of SSVEP-based brainâ€“computer interfaces via exploiting inter-subject information. Journal of Neural Engineering, 2015, 12, 046006.	3.5	102
8	Interface, interaction, and intelligence in generalized brainâ€“computer interfaces. Trends in Cognitive Sciences, 2021, 25, 671-684.	7.8	94
9	Combination of high-frequency SSVEP-based BCI and computer vision for controlling a robotic arm. Journal of Neural Engineering, 2019, 16, 026012.	3.5	91
10	BETA: A Large Benchmark Database Toward SSVEP-BCI Application. Frontiers in Neuroscience, 2020, 14, 627.	2.8	86
11	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.	4.9	67
12	An online hybrid BCI system based on SSVEP and EMG. Journal of Neural Engineering, 2016, 13, 026020.	3.5	58
13	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.	4.9	58
14	Implementing a calibration-free SSVEP-based BCI system with 160 targets. Journal of Neural Engineering, 2021, 18, .	3.5	50
15	Brainâ€“computer interface based on intermodulation frequency. Journal of Neural Engineering, 2013, 10, 066009.	3.5	47
16	A novel training-free recognition method for SSVEP-based BCIs using dynamic window strategy. Journal of Neural Engineering, 2021, 18, 036007.	3.5	47
17	Event-related desynchronization (ERD) in the alpha band during a hand mental rotation task. Neuroscience Letters, 2013, 541, 238-242.	2.1	44
18	Hybrid frequency and phase coding for a high-speed SSVEP-based BCI speller. , 2014, 2014, 3993-6.		43

#	Article	IF	Citations
19	Biomimetic integration of tough polymer elastomer with conductive hydrogel for highly stretchable, flexible electronic. Nano Energy, 2022, 92, 106735.	16.0	43
20	A novel stimulation method for multi-class SSVEP-BCI using intermodulation frequencies. Journal of Neural Engineering, 2017, 14, 026013.	3.5	36
21	A Hybrid BCI speller based on the combination of EMG envelopes and SSVEP. Applied Informatics, 2015, 2, .	0.5	31
22	A study on dynamic model of steady-state visual evoked potentials. Journal of Neural Engineering, 2018, 15, 046010.	3.5	26
23	Align and Pool for EEG Headset Domain Adaptation (ALPHA) to Facilitate Dry Electrode Based SSVEP-BCI. IEEE Transactions on Biomedical Engineering, 2022, 69, 795-806.	4.2	22
24	Effects of stimulation frequency and stimulation waveform on steady-state visual evoked potentials using a computer monitor. Journal of Neural Engineering, 2019, 16, 066007.	3.5	21
25	Optimizing a dual-frequency and phase modulation method for SSVEP-based BCIs. Journal of Neural Engineering, 2020, 17, 046026.	3.5	19
26	Glutathione S-transferase P1 gene Ile105Val polymorphism might be associated with lung cancer risk in the Chinese Han population. Tumor Biology, 2012, 33, 1973-1981.	1.8	13
27	Indoor Simulated Training Environment for Brain-Controlled Wheelchair Based on Steady-State Visual Evoked Potentials. Frontiers in Neurorobotics, 2019, 13, 101.	2.8	12
28	Cross-target transfer algorithm based on the volterra model of SSVEP-BCI. Tsinghua Science and Technology, 2021, 26, 505-522.	6.1	11
29	Anodal occipital tDCS enhances spontaneous alpha activity. Neuroscience Letters, 2020, 721, 134796.	2.1	10
30	Humanoid Robot Walking in Maze Controlled by SSVEP-BCI Based on Augmented Reality Stimulus. Frontiers in Human Neuroscience, 0, 16, .	2.0	9
31	Validation of a brain-computer interface version of the digit symbol substitution test in healthy subjects. Computers in Biology and Medicine, 2020, 120, 103729.	7.0	8
32	eldBETA: A Large Eldercare-oriented Benchmark Database of SSVEP-BCI for the Aging Population. Scientific Data, 2022, 9, .	5.3	8
33	A Novel Hybrid Brain-Computer Interface Combining Motor Imagery and Intermodulation Steady-State Visual Evoked Potential. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1525-1535.	4.9	7
34	Humanoid Robot Control System Based on AR-SSVEP. , 2020, , .		6
35	Effect of background luminance of visual stimulus on elicited steady-state visual evoked potentials. Brain Science Advances, 2022, 8, 50-56.	0.9	6
36	Effects of transcranial direct current stimulation on steady-state visual evoked potentials. , 2017, 2017, 2126-2129.		5

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37	Enhancing Detection of SSVEPs with Intermodulation Frequencies Using Individual Calibration Data. , 2018, 2018, 2531-2534.		3
38	Visual field inhomogeneous in brainâ€“computer interfaces based on rapid serial visual presentation. Journal of Neural Engineering, 2022, 19, 016015.	3.5	3
39	Optimizing a left and right visual field biphasic stimulation paradigm for SSVEP-based BCIs with hairless region behind the ear. Journal of Neural Engineering, 2021, 18, 066040.	3.5	3
40	Development of a Brain-Computer Interface-Based Symbol Digit Modalities Test and Validation in Healthy Elderly Volunteers and Stroke Patients. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1433-1440.	4.9	3
41	Promoting brainâ€“computer interface in China by BCI Controlled Robot Contest in World Robot Contest. Brain Science Advances, 2022, 8, 79-81.	0.9	3
42	Noninvasive Brain-computer Interface Based High-level Control of a Robotic Arm for Pick and Place Tasks. , 2018, , .		2
43	tACS facilitates flickering driving by boosting steady-state visual evoked potentials. Journal of Neural Engineering, 2021, 18, 066042.	3.5	1
44	High-speed steady-state visual evoked potential-based brainâ€“computer interfaces. , 2008, , 111-130.		0
45	A study of three target brain-computer interface based on auditory steady-state response. , 2019, , .		0
46	A Hybrid Brain-Computer Interface Combining Motor Imagery and Steady-State Visual Evoked Potential Based on Intermodulation Frequency: A Pilot Study. , 2021, , .		0