Tzyy-Ping Jung

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6404086/publications.pdf

Version: 2024-02-01

253 papers	23,121 citations	16451 64 h-index	9345 143 g-index
264 all docs	264 docs citations	264 times ranked	15747 citing authors

#	Article	IF	Citations
1	Removing electroencephalographic artifacts by blind source separation. Psychophysiology, 2000, 37, 163-178.	2.4	2,585
2	Analysis of fMRI data by blind separation into independent spatial components. Human Brain Mapping, 1998, 6, 160-188.	3.6	1,653
3	Removal of eye activity artifacts from visual event-related potentials in normal and clinical subjects. Clinical Neurophysiology, 2000, 111, 1745-1758.	1.5	1,157
4	Dry-Contact and Noncontact Biopotential Electrodes: Methodological Review. IEEE Reviews in Biomedical Engineering, 2010, 3, 106-119.	18.0	931
5	EEG-Based Emotion Recognition in Music Listening. IEEE Transactions on Biomedical Engineering, 2010, 57, 1798-1806.	4.2	753
6	Removing electroencephalographic artifacts by blind source separation. Psychophysiology, 2000, 37, 163-178.	2.4	678
7	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
8	Analysis and visualization of single-trial event-related potentials. Human Brain Mapping, 2001, 14, 166-185.	3.6	609
9	Real-time neuroimaging and cognitive monitoring using wearable dry EEG. IEEE Transactions on Biomedical Engineering, 2015, 62, 2553-2567.	4.2	536
10	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
11	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
12	Imaging brain dynamics using independent component analysis. Proceedings of the IEEE, 2001, 89, 1107-1122.	21.3	465
13	Estimating alertness from the EEG power spectrum. IEEE Transactions on Biomedical Engineering, 1997, 44, 60-69.	4.2	403
14	Functionally Independent Components of the Late Positive Event-Related Potential during Visual Spatial Attention. Journal of Neuroscience, 1999, 19, 2665-2680.	3.6	379
15	EEG-based drowsiness estimation for safety driving using independent component analysis. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 2726-2738.	0.1	341
16	Electroencephalographic Brain Dynamics Following Manually Responded Visual Targets. PLoS Biology, 2004, 2, e176.	5.6	307
17	Linking brain, mind and behavior. International Journal of Psychophysiology, 2009, 73, 95-100.	1.0	297
18	Dry and Noncontact EEG Sensors for Mobile Brainâ€“Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 228-235.	4.9	288

#	Article	IF	Citations
19	A HIGH-SPEED BRAIN SPELLER USING STEADY-STATE VISUAL EVOKED POTENTIALS. International Journal of Neural Systems, 2014, 24, 1450019.	5.2	287
20	Evaluation of Artifact Subspace Reconstruction for Automatic Artifact Components Removal in Multi-Channel EEG Recordings. IEEE Transactions on Biomedical Engineering, 2020, 67, 1114-1121.	4.2	282
21	Compressed Sensing for Energy-Efficient Wireless Telemonitoring of Noninvasive Fetal ECG Via Block Sparse Bayesian Learning. IEEE Transactions on Biomedical Engineering, 2013, 60, 300-309.	4.2	266
22	Real-time modeling and 3D visualization of source dynamics and connectivity using wearable EEG. , 2013, 2013, 2184-7.		253
23	A Comparison Study of Canonical Correlation Analysis Based Methods for Detecting Steady-State Visual Evoked Potentials. PLoS ONE, 2015, 10, e0140703.	2.5	241
24	Eye Activity Correlates of Workload during a Visuospatial Memory Task. Human Factors, 2001, 43, 111-121.	3.5	233
25	Tonic, phasic, and transient EEG correlates of auditory awareness in drowsiness. Cognitive Brain Research, 1996, 4, 15-25.	3.0	221
26	Cognition in action: imaging brain/body dynamics in mobile humans. Reviews in the Neurosciences, 2011, 22, 593-608.	2.9	217
27	Compressed Sensing of EEG for Wireless Telemonitoring With Low Energy Consumption and Inexpensive Hardware. IEEE Transactions on Biomedical Engineering, 2013, 60, 221-224.	4.2	215
28	Changes in alertness are a principal component of variance in the EEG spectrum. NeuroReport, 1995, 7, 213-216.	1.2	203
29	Evaluation of Artifact Subspace Reconstruction for Automatic EEG Artifact Removal. , 2018, 2018, 1242-1245.		189
30	Single-Trial Variability in Event-Related BOLD Signals. NeuroImage, 2002, 15, 823-835.	4.2	186
31	A Brainâ€“Computer Interface Based on Miniature-Event-Related Potentials Induced by Very Small Lateral Visual Stimuli. IEEE Transactions on Biomedical Engineering, 2018, 65, 1166-1175.	4.2	170
32	EEG-based prediction of driver's cognitive performance by deep convolutional neural network. Signal Processing: Image Communication, 2016, 47, 549-555.	3.2	164
33	Event-related brain response abnormalities in autism: evidence for impaired cerebello-frontal spatial attention networks. Cognitive Brain Research, 2001, 11, 127-145.	3.0	161
34	Awareness during drowsiness: Dynamics and electrophysiological correlates.. Canadian Journal of Experimental Psychology, 2000, 54, 266-273.	0.8	159
35	Combined eye activity measures accurately estimate changes in sustained visual task performance. Biological Psychology, 2000, 52, 221-240.	2.2	147
36	EEG-Based Brain-Computer Interfaces (BCIs): A Survey of Recent Studies on Signal Sensing Technologies and Computational Intelligence Approaches and Their Applications. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2021, 18, 1645-1666.	3.0	144

#	Article	IF	Citations
37	A cell-phone-based brainâ€“computer interface for communication in daily life. Journal of Neural Engineering, 2011, 8, 025018.	3.5	140
38	Adaptive EEG-Based Alertness Estimation System by Using ICA-Based Fuzzy Neural Networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2469-2476.	0.1	135
39	Tonic and phasic EEG and behavioral changes induced by arousing feedback. NeuroImage, 2010, 52, 633-642.	4.2	131
40	Sustained Attention in Real Classroom Settings: An EEG Study. Frontiers in Human Neuroscience, 2017, 11, 388.	2.0	131
41	Biosensor Technologies for Augmented Brainâ€“Computer Interfaces in the Next Decades. Proceedings of the IEEE, 2012, 100, 1553-1566.	21.3	121
42	Noninvasive Neural Prostheses Using Mobile and Wireless EEG. Proceedings of the IEEE, 2008, 96, 1167-1183.	21.3	118
43	Improving EEG-Based Emotion Classification Using Conditional Transfer Learning. Frontiers in Human Neuroscience, 2017, 11, 334.	2.0	117
44	Estimating Driving Performance Based on EEG Spectrum Analysis. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.7	116
45	Toward Drowsiness Detection Using Non-hair-Bearing EEG-Based Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 400-406.	4.9	113
46	Utilizing Deep Learning Towards Multi-Modal Bio-Sensing and Vision-Based Affective Computing. IEEE Transactions on Affective Computing, 2022, 13, 96-107.	8.3	112
47	A Collaborative Brain-Computer Interface for Improving Human Performance. PLoS ONE, 2011, 6, e20422.	2.5	111
48	Fall Prediction and Prevention Systems: Recent Trends, Challenges, and Future Research Directions. Sensors, 2017, 17, 2509.	3.8	107
49	EEG-Based Attention Tracking During Distracted Driving. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 1085-1094.	4.9	105
50	Review of Wireless and Wearable Electroencephalogram Systems and Brain-Computer Interfaces â€“ A Mini-Review. Gerontology, 2010, 56, 112-119.	2.8	104
51	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.	4.2	104
52	Spatial and temporal EEG dynamics of motion sickness. NeuroImage, 2010, 49, 2862-2870.	4.2	92
53	Tonic and phasic electroencephalographic dynamics during continuous compensatory tracking. NeuroImage, 2008, 39, 1896-1909.	4.2	88
54	Spatiotemporal Sparse Bayesian Learning With Applications to Compressed Sensing of Multichannel Physiological Signals. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 1186-1197.	4.9	86

#	Article	IF	Citations
55	Spatial Filtering for EEG-Based Regression Problems in Brainâ€“Computer Interface (BCI). IEEE Transactions on Fuzzy Systems, 2018, 26, 771-781.	9.8	85
56	Glaucoma Progression Detection Using Structural Retinal Nerve Fiber Layer Measurements and Functional Visual Field Points. IEEE Transactions on Biomedical Engineering, 2014, 61, 1143-1154.	4.2	84
57	Two Independent Frontal Midline Theta Oscillations during Conflict Detection and Adaptation in a Simon-Type Manual Reaching Task. Journal of Neuroscience, 2017, 37, 2504-2515.	3.6	83
58	Real-World Neuroimaging Technologies. IEEE Access, 2013, 1, 131-149.	4.2	82
59	EEG-Based Subject- and Session-independent Drowsiness Detection: An Unsupervised Approach. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	81
60	Generating Visual Flickers for Eliciting Robust Steady-State Visual Evoked Potentials at Flexible Frequencies Using Monitor Refresh Rate. PLoS ONE, 2014, 9, e99235.	2.5	81
61	Detecting Glaucoma With a Portable Brain-Computer Interface for Objective Assessment of Visual Function Loss. JAMA Ophthalmology, 2017, 135, 550.	2.5	78
62	Developing a Novel Tactile P300 Brain-Computer Interface With a Cheeks-Stim Paradigm. IEEE Transactions on Biomedical Engineering, 2020, 67, 2585-2593.	4.2	78
63	Fusion of electroencephalographic dynamics and musical contents for estimating emotional responses in music listening. Frontiers in Neuroscience, 2014, 8, 94.	2.8	77
64	Discriminative Canonical Pattern Matching for Single-Trial Classification of ERP Components. IEEE Transactions on Biomedical Engineering, 2020, 67, 2266-2275.	4.2	77
65	Functionally independent components of early event-related potentials in a visual spatial attention task. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 1135-1144.	4.0	76
66	Real-Time Adaptive EEG Source Separation Using Online Recursive Independent Component Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 309-319.	4.9	76
67	A subject-transfer framework for obviating inter- and intra-subject variability in EEG-based drowsiness detection. NeuroImage, 2018, 174, 407-419.	4.2	76
68	A natural basis for efficient brain-actuated control. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 208-211.	1.4	68
69	A brain-machine interface using dry-contact, low-noise EEG sensors. , 2008, , .		67
70	Learning Common Time-Frequency-Spatial Patterns for Motor Imagery Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 699-707.	4.9	66
71	Modeling brain dynamic state changes with adaptive mixture independent component analysis. NeuroImage, 2018, 183, 47-61.	4.2	63
72	Toward a new cognitive neuroscience: modeling natural brain dynamics. Frontiers in Human Neuroscience, 2014, 8, 444.	2.0	61

#	Article	IF	Citations
73	An EEG-Based Fatigue Detection and Mitigation System. International Journal of Neural Systems, 2016, 26, 1650018.	5.2	61
74	Co-modulatory spectral changes in independent brain processes are correlated with task performance. NeuroImage, 2012, 62, 1469-1477.	4.2	59
75	Current Challenges for the Practical Application of Electroencephalography-Based Brainâ€“Computer Interfaces. Engineering, 2021, 7, 1710-1712.	6.7	58
76	Kinesthesia in a sustained-attention driving task. NeuroImage, 2014, 91, 187-202.	4.2	57
77	Independent Component Ensemble of EEG for Brainâ€“Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2014, 22, 230-238.	4.9	55
78	An Online Brain-Computer Interface Based on SSVEPs Measured From Non-Hair-Bearing Areas. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 14-21.	4.9	55
79	Electroencephalographic dynamics of musical emotion perception revealed by independent spectral components. NeuroReport, 2010, 21, 410-415.	1.2	49
80	Tonic Changes in EEG Power Spectra during Simulated Driving. Lecture Notes in Computer Science, 2009, , 394-403.	1.3	49
81	Eye movements predict students' computer-based assessment performance of physics concepts in different presentation modalities. Computers and Education, 2014, 74, 61-72.	8.3	47
82	Closed-Loop Brainâ€“Machineâ€“Body Interfaces for Noninvasive Rehabilitation of Movement Disorders. Annals of Biomedical Engineering, 2014, 42, 1573-1593.	2.5	47
83	Pervasive brain monitoring and data sharing based on multi-tier distributed computing and linked data technology. Frontiers in Human Neuroscience, 2014, 8, 370.	2.0	46
84	Grand average ERP-image plotting and statistics: A method for comparing variability in event-related single-trial EEG activities across subjects and conditions. Journal of Neuroscience Methods, 2015, 250, 3-6.	2.5	46
85	EEG-Based User Reaction Time Estimation Using Riemannian Geometry Features. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 2157-2168.	4.9	46
86	Translation of EEG Spatial Filters from Resting to Motor Imagery Using Independent Component Analysis. PLoS ONE, 2012, 7, e37665.	2.5	46
87	Inter- and Intra-Subject Transfer Reduces Calibration Effort for High-Speed SSVEP-Based BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2123-2135.	4.9	45
88	Task performance and eye activity: predicting behavior relating to cognitive workload. Aviation, Space, and Environmental Medicine, 2007, 78, B176-85.	0.5	45
89	Assessing the feasibility of online SSVEP decoding in human walking using a consumer EEG headset. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 119.	4.6	44
90	Hybrid frequency and phase coding for a high-speed SSVEP-based BCI speller. , 2014, 2014, 3993-6.		43

#	Article	IF	Citations
91	Alpha modulation in parietal and retrosplenial cortex correlates with navigation performance. Psychophysiology, 2012, 49, 43-55.	2.4	42
92	Theta and Alpha Oscillations in Attentional Interaction during Distracted Driving. Frontiers in Behavioral Neuroscience, 2018, 12, 3.	2.0	42
93	Progression of Patterns (POP): A Machine Classifier Algorithm to Identify Glaucoma Progression in Visual Fields. , 2012, 53, 6557.		41
94	BCI-Based Rehabilitation on the Stroke in Sequela Stage. Neural Plasticity, 2020, 2020, 1-10.	2.2	41
95	Review of brain encoding and decoding mechanisms for EEG-based brainâ€“computer interface. Cognitive Neurodynamics, 2021, 15, 569-584.	4.0	41
96	Mind-Wandering Tends to Occur under Low Perceptual Demands during Driving. Scientific Reports, 2016, 6, 21353.	3.3	37
97	Tiny noise, big mistakes: adversarial perturbations induce errors in brainâ€“computer interface spellers. National Science Review, 2021, 8, nwaa233.	9.5	37
98	Recursive independent component analysis for online blind source separation. , 2012, , .		36
99	Polychromatic SSVEP stimuli with subtle flickering adapted to brain-display interactions. Journal of Neural Engineering, 2017, 14, 016018.	3.5	36
100	Eyeblink recognition improves fatigue prediction from single-channel forehead EEG in a realistic sustained attention task. Journal of Neural Engineering, 2020, 17, 036015.	3.5	36
101	A Practical Mobile Dry EEG System for Human Computer Interfaces. Lecture Notes in Computer Science, 2013, , 649-655.	1.3	35
102	Assessing the quality of steady-state visual-evoked potentials for moving humans using a mobile electroencephalogram headset. Frontiers in Human Neuroscience, 2014, 8, 182.	2.0	35
103	Resting-State EEG Signal for Major Depressive Disorder Detection: A Systematic Validation on a Large and Diverse Dataset. Biosensors, 2021, 11, 499.	4.7	34
104	Can arousing feedback rectify lapses in driving? Prediction from EEG power spectra. Journal of Neural Engineering, 2013, 10, 056024.	3.5	33
105	Selective Transfer Learning for EEG-Based Drowsiness Detection. , 2015, , .		33
106	Facilitating Calibration in High-Speed BCI Spellers via Leveraging Cross-Device Shared Latent Responses. IEEE Transactions on Biomedical Engineering, 2020, 67, 1105-1113.	4.2	32
107	Developing an EEG-based on-line closed-loop lapse detection and mitigation system. Frontiers in Neuroscience, 2014, 8, 321.	2.8	31
108	Decoding EEG in Cognitive Tasks With Time-Frequency and Connectivity Masks. IEEE Transactions on Cognitive and Developmental Systems, 2016, 8, 298-308.	3.8	31

#	Article	IF	Citations
109	Enhancing detection of steady-state visual evoked potentials using individual training data. , 2014, 2014, 3037-40.		30
110	Modeling EEG Data Distribution With a Wasserstein Generative Adversarial Network to Predict RSVP Events. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1720-1730.	4.9	30
111	Boosting template-based SSVEP decoding by cross-domain transfer learning. Journal of Neural Engineering, 2021, 18, 016002.	3.5	30
112	Online Automatic Artifact Rejection using the Real-time EEG Source-mapping Toolbox (REST). , 2018, 2018, 106-109.		29
113	A Wearable Multi-Modal Bio-Sensing System Towards Real-World Applications. IEEE Transactions on Biomedical Engineering, 2019, 66, 1137-1147.	4.2	29
114	Mapping single-trial EEG records on the cortical surface through a spatiotemporal modality. NeuroImage, 2006, 32, 195-207.	4.2	27
115	Brain oscillation and connectivity during a chemistry visual working memory task. International Journal of Psychophysiology, 2013, 90, 172-179.	1.0	27
116	Feature extraction with deep belief networks for driver's cognitive states prediction from EEG data. , 2015, , .		27
117	Dynamic Reorganization of Functional Connectivity Unmasks Fatigue Related Performance Declines in Simulated Driving. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1790-1799.	4.9	26
118	White-Box Target Attack for EEG-Based BCI Regression Problems. Lecture Notes in Computer Science, 2019, , 476-488.	1.3	26
119	Multi-modal Approach for Affective Computing. , 2018, 2018, 291-294.		25
120	Cross-Subject Transfer Learning Improves the Practicality of Real-World Applications of Brain-Computer Interfaces. , 2019, , .		25
121	Revealing spatio-spectral electroencephalographic dynamics of musical mode and tempo perception by independent component analysis. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 18.	4.6	24
122	Stress-Induced Effects in Resting EEG Spectra Predict the Performance of SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1771-1780.	4.9	24
123	Transferring Subject-Specific Knowledge Across Stimulus Frequencies in SSVEP-Based BCIs. IEEE Transactions on Automation Science and Engineering, 2021, 18, 552-563.	5.2	24
124	Event-Related Brain Dynamics in Continuous Sustained-Attention Tasks. Lecture Notes in Computer Science, 2007, , 65-74.	1.3	22
125	SNR analysis of high-frequency steady-state visual evoked potentials from the foveal and extrafoveal regions of Human Retina. , 2012, 2012, 1810-4.		22
126	Cortical surface alignment in multi-subject spatiotemporal independent EEG source imaging. NeuroImage, 2014, 87, 297-310.	4.2	22

#	Article	IF	Citations
127	Multi-Scale EEG Brain Dynamics During Sustained Attention Tasks. , 2007, , .		21
128	The Study of Evaluation and Rehabilitation of Patients With Different Cognitive Impairment Phases Based on Virtual Reality and EEG. Frontiers in Aging Neuroscience, 2018, 10, 88.	3.4	20
129	Measuring Steady-State Visual Evoked Potentials from non-hair-bearing areas. , 2012, 2012, 1806-9.		19
130	Monitoring alert and drowsy states by modeling EEG source nonstationarity. Journal of Neural Engineering, 2017, 14, 056012.	3.5	19
131	Brain Network Changes in Fatigued Drivers: A Longitudinal Study in a Real-World Environment Based on the Effective Connectivity Analysis and Actigraphy Data. Frontiers in Human Neuroscience, 2018, 12, 418.	2.0	19
132	Detecting glaucomatous change in visual fields: Analysis with an optimization framework. Journal of Biomedical Informatics, 2015, 58, 96-103.	4.3	18
133	Real-time EEG Source-mapping Toolbox (REST): Online ICA and source localization. , 2015, 2015, 4114-7.		18
134	Session-to-Session Transfer in Detecting Steady-State Visual Evoked Potentials with Individual Training Data. Lecture Notes in Computer Science, 2016, , 253-260.	1.3	18
135	EEG-Based User Authentication Using a Convolutional Neural Network. , 2019, , .		18
136	Fast detection of covert visuospatial attention using hybrid N2pc and SSVEP features. Journal of Neural Engineering, 2016, 13, 066003.	3.5	17
137	Enhancing transfer performance across datasets for brain-computer interfaces using a combination of alignment strategies and adaptive batch normalization. Journal of Neural Engineering, 2021, 18, 0460e5.	3.5	17
138	The Current Research of Combining Multi-Modal Brain-Computer Interfaces With Virtual Reality. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3278-3287.	6.3	17
139	Switching Spatial Reference Frames for Yaw and Pitch Navigation. Spatial Cognition and Computation, 2012, 12, 159-194.	1.2	16
140	Low-Dimensional Subject Representation-Based Transfer Learning in EEG Decoding. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1915-1925.	6.3	16
141	Enhancement for P300-speller classification using multi-window discriminative canonical pattern matching. Journal of Neural Engineering, 2021, 18, 046079.	3.5	16
142	Online Adaptation Boosts SSVEP-Based BCI Performance. IEEE Transactions on Biomedical Engineering, 2022, 69, 2018-2028.	4.2	16
143	Detection of steady-state visual-evoked potential using differential canonical correlation analysis. , 2013, , .		15
144	Electroencephalographic and peripheral temperature dynamics during a prolonged psychomotor vigilance task. Accident Analysis and Prevention, 2019, 126, 198-208.	5.7	15

#	Article	IF	Citations
145	Implementation of a motion sickness evaluation system based on EEG spectrum analysis. , 2011, , .		14
146	Encoding of Physics Concepts: Concreteness and Presentation Modality Reflected by Human Brain Dynamics. PLoS ONE, 2012, 7, e41784.	2.5	14
147	Online recursive independent component analysis for real-time source separation of high-density EEG. , 2014, 2014, 3845-8.		14
148	Explore the Functional Connectivity between Brain Regions during a Chemistry Working Memory Task. PLoS ONE, 2015, 10, e0129019.	2.5	14
149	Impact of Affective Multimedia Content on the Electroencephalogram and Facial Expressions. Scientific Reports, 2019, 9, 16295.	3.3	14
150	EEG Dynamics Reflect the Distinct Cognitive Process of Optic Problem Solving. PLoS ONE, 2012, 7, e40731.	2.5	14
151	Online Voluntary Eye Blink Detection using Electrooculogram. IEICE Proceeding Series, 2014, 1, 114-117.	0.0	14
152	EEG-based evaluation system for motion sickness estimation. , 2011, , .		13
153	Enhancing unsupervised canonical correlation analysis-based frequency detection of SSVEPs by incorporating background EEG. , 2014, 2014, 3053-6.		13
154	Analysis of fMRI data by blind separation into independent spatial components. Human Brain Mapping, 1998, 6, 160-188.	3.6	13
155	A mobile SSVEP-based brain-computer interface for freely moving humans: The robustness of canonical correlation analysis to motion artifacts. , 2013, 2013, 1350-3.		12
156	Classification of Left-Versus Right-Hand Motor Imagery in Stroke Patients Using Supplementary Data Generated by CycleGAN. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2417-2424.	4.9	12
157	Assisting autistic children with wireless EOG technology. , 2012, 2012, 3504-6.		11
158	Combining ERPs and EEG spectral features for decoding intended movement direction. , 2012, 2012, 1769-72.		11
159	Developing stimulus presentation on mobile devices for a truly portable SSVEP-based BCI. , 2013, 2013, 5271-4.		11
160	Developing an online steady-state visual evoked potential-based brain-computer interface system using EarEEG. , 2015, 2015, 2271-4.		11
161	Neural Correlates of Mathematical Problem Solving. International Journal of Neural Systems, 2015, 25, 1550004.	5.2	11
162	Augmenting VR/AR Applications with EEG/EOG Monitoring and Oculo-Vestibular Recoupling. Lecture Notes in Computer Science, 2016, , 121-131.	1.3	11

#	Article	IF	Citations
163	Associations Among Emotional State, Sleep Quality, and Resting-State EEG Spectra: A Longitudinal Study in Graduate Students. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 795-804.	4.9	11
164	Unsupervised learning of brain state dynamics during emotion imagination using high-density EEG. NeuroImage, 2022, 249, 118873.	4.2	11
165	Exploring day-to-day variability in EEG-based emotion classification. , 2014, , .		10
166	A dynamic stopping method for improving performance of steady-state visual evoked potential based brain-computer interfaces. , 2015, 2015, 1057-60.		10
167	SSVEP-assisted RSVP brainâ€“computer interface paradigm for multi-target classification. Journal of Neural Engineering, 2021, 18, 016021.	3.5	10
168	Compressed sensing for energy-efficient wireless telemonitoring: Challenges and opportunities. , 2013, , .		9
169	An approximation approach for rendering visual flickers in SSVEP-based BCI using monitor refresh rate. , 2013, 2013, 2176-9.		9
170	Using robust principal component analysis to alleviate day-to-day variability in EEG based emotion classification. , 2015, 2015, 570-3.		9
171	Hardware-oriented Memory-limited Online Fastica Algorithm and Hardware Architecture for Signal Separation. , 2019, , .		9
172	The EEG Signal Analysis for Spatial Cognitive Ability Evaluation Based on Multivariate Permutation Conditional Mutual Information-Multi-Spectral Image. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2113-2122.	4.9	9
173	Towards Serious Games for Improved BCI. , 2015, , 1-28.		9
174	Mindfulness Training Associated With Resting-State Electroencephalograms Dynamics in Novice Practitioners via Mindful Breathing and Body-Scan. Frontiers in Psychology, 2021, 12, 748584.	2.1	9
175	Cell-phone based Drowsiness Monitoring and Management system. , 2012, , .		8
176	Exploring Human Variability in Steady-State Visual Evoked Potentials. , 2018, , .		8
177	A brain-computer interface based on high-frequency steady-state asymmetric visual evoked potentials. , 2020, 2020, 3090-3093.		8
178	Editorial: Inter- and Intra-subject Variability in Brain Imaging and Decoding. Frontiers in Computational Neuroscience, 2021, 15, 791129.	2.1	8
179	Development of an Adaptive Artifact Subspace Reconstruction Based on Hebbian/Anti-Hebbian Learning Networks for Enhancing BCI Performance. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 348-361.	11.3	8
180	EEG dynamics during music appreciation. , 2009, 2009, 5316-9.		7

#	Article	IF	Citations
181	Arousing feedback rectifies lapse in performance and corresponding EEG power spectrum. , 2010, 2010, 1792-5.		7
182	Genetic feature selection in EEG-based motion sickness estimation. , 2011, , .		7
183	A Brain-Computer Interface Based on Multifocal SSVEPs Detected by Inter-Task-Related Component Analysis. IEEE Access, 2020, 8, 138539-138550.	4.2	7
184	A Real-World Neuroimaging System to Evaluate Stress. Lecture Notes in Computer Science, 2013, , 316-325.	1.3	7
185	Automatic design for independent component analysis based brain-computer interfacing. , 2013, 2013, 2180-3.		6
186	Empirical mode decomposition improves detection of SSVEP. , 2013, 2013, 3901-4.		6
187	Towards Serious Games for Improved BCI. , 2017, , 197-224.		6
188	Comparing the Differences in Brain Activities and Neural Comodulations Associated With Motion Sickness Between Drivers and Passengers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 1259-1267.	4.9	6
189	Spatial filtering techniques for improving individual template-based SSVEP detection. , 0, , 219-242.		6
190	An efficient VLSI implementation of on-line recursive ICA processor for real-time multi-channel EEG signal separation. , 2013, 2013, 6808-11.		5
191	Tonic EEG dynamics during psychomotor vigilance task. , 2013, , .		5
192	Estimating direction and depth of visual fixation using electrooculography. , 2015, 2015, 841-4.		5
193	Tracking non-stationary EEG sources using adaptive online recursive independent component analysis. , 2015, 2015, 4106-9.		5
194	Transfer learning with large-scale data in brain-computer interfaces. , 2016, 2016, 4666-4669.		5
195	Independent component analysis-based spatial filtering improves template-based SSVEP detection. , 2017, 2017, 3620-3623.		5
196	Neural Oscillation Correlates Chemistry Decision-Making. International Journal of Neural Systems, 2018, 28, 1750031.	5.2	5
197	Target Classification in a Novel SSVEP-RSVP Based BCI Gaming System. , 2019, , .		5
198	â€˜Writeâ€™ but not â€˜spellâ€™ Chinese characters with a BCI-controlled robot*. , 2020, 2020, 4741-4744.		5

#	Article	IF	Citations
199	Dynamic Brain Responses Modulated by Precise Timing Prediction in an Opposing Process. Neuroscience Bulletin, 2021, 37, 70-80.	2.9	5
200	The Wearable Multimodal Monitoring System: A Platform to Study Falls and Near-Falls in the Real-World. Lecture Notes in Computer Science, 2015, , 412-422.	1.3	5
201	An effective chip implementation of a real-time eight-channel EEG signal processor based on on-line recursive ICA algorithm. , 2012, , .		4
202	Predicting EEG Sample Size Required for Classification Calibration. Lecture Notes in Computer Science, 2016, , 57-68.	1.3	4
203	Does frequency resolution affect the classification performance of steady-state visual evoked potentials?. , 2017, , .		4
204	A comparison of classification methods for recognizing single-trial P300 in brain-computer interfaces. , 2019, 2019, 3032-3035.		4
205	Using SSVEP-BCI to Continuous Control a Quadcopter with 4-DOF Motions. , 2020, 2020, 4745-4748.		4
206	Questionable Classification Accuracy Reported in â€œDesigning a Sum of Squared Correlations Framework for Enhancing SSVEP-Based BCIsâ€. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1042-1043.	4.9	4
207	Detection of fixation points using a small visual landmark for brainâ€“computer interfaces. Journal of Neural Engineering, 2021, 18, 046098.	3.5	4
208	Temporal Dynamics and Cortical Networks Engaged in Biological Concepts Encoding. Journal of Neuroscience and Neuroengineering, 2014, 3, 21-35.	0.2	4
209	A brain-computer interface with real-time independent component analysis for biomedical applications. , 2012, , .		3
210	Integrating interference frequency components elicited by monitor refresh rate to enhance frequency detection of SSVEPs. , 2013, , .		3
211	14.4: Polychromatic Highâ€Frequency Steadyâ€State Visual Evoked Potentials for Brainâ€Display Interaction. Digest of Technical Papers SID International Symposium, 2013, 44, 146-149.	0.3	3
212	Validating online recursive independent component analysis on EEG data. , 2015, , .		3
213	Exploring the EEG Correlates of Neurocognitive Lapse with Robust Principal Component Analysis. Lecture Notes in Computer Science, 2016, , 113-120.	1.3	3
214	Exploring Mental State Changes during Hypnotherapy using Adaptive Mixture Independent Component Analysis of EEG. , 2018, , .		3
215	Transferring Shared Responses Across Electrode Montages for Facilitating Calibration in High-Speed Brain Spellers. , 2018, 2018, 89-92.		3
216	37â€4: Invited Paper: Intelligent Virtualâ€Reality Headâ€Mounted Displays with Brain Monitoring and Visual Function Assessment. Digest of Technical Papers SID International Symposium, 2018, 49, 475-478.	0.3	3

#	Article	IF	Citations
217	Retrosplenial Segregation Reflects the Navigation Load During Ambulatory Movement. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 488-496.	4.9	3
218	Evaluation of Low-end Virtual Reality Content of Cultural Heritage. , 2020, , .		3
219	Hardware-Oriented Memory-Limited Online Artifact Subspace Reconstruction (HMO-ASR) Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3493-3497.	3.0	3
220	Predicting failures in auditory detection from changes in the EEG spectrum. , 0, , .		2
221	An EEG-based brain—computer interface with real-time artifact removal using independent component analysis. , 2012, , .		2
222	Habituation of steady-state visual evoked potentials in response to high-frequency polychromatic foveal visual stimulation. , 2013, 2013, 803-6.		2
223	Toward non-hair-bearing brain-computer interfaces for neurocognitive lapse detection. , 2015, 2015, 6638-41.		2
224	Monitoring and Analysis of Multiplicative Characteristic Variations for Adhesive Electrode by Using Self-Electrocardiogram Signals. , 2015, , .		2
225	Evaluating the Performance of Non-Hair SSVEP-Based BCIs Featuring Template-Based Decoding Methods. , 2018, 2018, 1972-1975.		2
226	Human Brain Dynamics Reflect the Correctness and Presentation Modality of Physics Concept Memory Retrieval. Frontiers in Human Neuroscience, 2020, 14, 331.	2.0	2
227	Alpha Correlates of Practice During Mental Preparation for Motor Imagery. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 146-155.	3.8	2
228	Enhancing performance of SSVEP-based BCI by unsupervised learning information from test trials*. , 2020, 2020, 3359-3362.		2
229	Common Cross-Spectral Patterns of Electroencephalography for Reliable Cognitive Task Identification. IEEE Access, 2020, 8, 17652-17662.	4.2	2
230	Analysis of fMRI data by blind separation into independent spatial components. , 1998, 6, 160.		2
231	Modeling and Tracking Brain Nonstationarity in a Sustained Attention Task. Lecture Notes in Computer Science, 2016, , 209-217.	1.3	2
232	Near-zero phase-lag hyperscanning in a novel wireless EEG system. Journal of Neural Engineering, 2021, 18, 066010.	3.5	2
233	Recognizing Tonal and Nontonal Mandarin Sentences for EEG-Based Brainâ€“Computer Interface. IEEE Transactions on Cognitive and Developmental Systems, 2022, 14, 1666-1677.	3.8	2
234	Improving Transfer Performance of Deep Learning with Adaptive Batch Normalization for Brain-computer Interfaces. , 2021, 2021, 5800-5803.		2

#	Article	IF	Citations
235	Generalizations of the subject-independent feature set for music-induced emotion recognition. , 2011, 2011, 6092-5.		1
236	11.1: Invited Paper: Brainâ€Display Interaction and Its Biomedical Application Using Steadyâ€State Visual Evoked Potentials. Digest of Technical Papers SID International Symposium, 2015, 46, 122-125.	0.3	1
237	Pervasive Neuroimaging with Fog Computing and Linked Data. , 2016, , .		1
238	Eye fixation-related fronto-parietal neural network correlates of memory retrieval. International Journal of Psychophysiology, 2019, 138, 57-70.	1.0	1
239	Effects of stimulus position on the classification of miniature asymmetric VEPs for brain-computer interfaces. , 2019, 2019, 5956-5959.		1
240	Statistically Optimized Spatial Filtering in Decoding Steady-State Visual Evoked Potentials Based on Task-Related Component Analysis. , 2020, 2020, 3070-3073.		1
241	An Affordable Bio-Sensing and Activity Tagging Platform for HCI Research. Lecture Notes in Computer Science, 2017, , 399-409.	1.3	1
242	Examining the Relationship between EEG Dynamics and Emotion Ratings during Video Watching using Adaptive Mixture Independent Component Analysis. , 2020, , .		1
243	Study of visual stimulus waveforms via forced van der Pol oscillator model for SSVEP-based brain-computer interfaces. , 2013, , .		0
244	Discovering optimal brain states for problem solving with EEG. , 2013, , .		0
245	Guest Editorialâ€"Special Issue on Selected Papers From BioCAS 2012. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 561-562.	4.0	0
246	Resting state and task-related brain dynamics supporting insight. , 2014, 2014, 5454-7.		0
247	An efficient ASIC implementation of 16-channel on-line recursive ICA processor for real-time EEG system. , 2014, 2014, 3849-52.		0
248	Editorial Message: Special Issue on Fuzzy Brainâ€"Computer Interface Systems. International Journal of Fuzzy Systems, 2017, 19, 528-528.	4.0	0
249	Optimizing Phase Intervals for Phase-Coded SSVEP-Based BCIs With Template-Based Algorithm. , 2018, , .		0
250	Physiological Correlates of Time Stress During Game Play. Communications in Computer and Information Science, 2021, , 119-126.	0.5	0
251	A Comparison Study of Single- and Multiple-Target Stimulation Methods for Eliciting Steady-State Visual Evoked Potentials. , 2021, , .		0
252	Imperceptible Polychromatic Visual Stimuli for Brain-Display Interfaces. , 2014, , .		0

#	Article	IF	Citations
253	A Computation-Aware TPL Utilization Procedure for Parallelizing the FastICA Algorithm on a Multi-Core CPU. , 2021, , .		0