

# Yu Zhang

## List of Publications by Year in descending order

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94  
papers

5,610  
citations

66343

42  
h-index

79698

73  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4257  
citing authors

#	ARTICLE	IF	CITATIONS
1	FREQUENCY RECOGNITION IN SSVEP-BASED BCI USING MULTISET CANONICAL CORRELATION ANALYSIS. International Journal of Neural Systems, 2014, 24, 1450013.	5.2	311
2	Temporally Constrained Sparse Group Spatial Patterns for Motor Imagery BCI. IEEE Transactions on Cybernetics, 2019, 49, 3322-3332.	9.5	232
3	Optimizing spatial patterns with sparse filter bands for motor-imagery based brain-computer interface. Journal of Neuroscience Methods, 2015, 255, 85-91.	2.5	223
4	L1-Regularized Multiway Canonical Correlation Analysis for SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 887-896.	4.9	219
5	Sparse Bayesian Classification of EEG for Brain-Computer Interface. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2256-2267.	11.3	208
6	Multi-kernel extreme learning machine for EEG classification in brain-computer interfaces. Expert Systems With Applications, 2018, 96, 302-310.	7.6	208
7	Spatial-Temporal Discriminant Analysis for ERP-Based Brain-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 233-243.	4.9	167
8	A Novel EOG/EEG Hybrid Human-Machine Interface Adopting Eye Movements and ERPs: Application to Robot Control. IEEE Transactions on Biomedical Engineering, 2015, 62, 876-889.	4.2	167
9	A new hybrid BCI paradigm based on P300 and SSVEP. Journal of Neuroscience Methods, 2015, 244, 16-25.	2.5	166
10	Sparse Bayesian Learning for Obtaining Sparsity of EEG Frequency Bands Based Feature Vectors in Motor Imagery Classification. International Journal of Neural Systems, 2017, 27, 1650032.	5.2	166
11	An electroencephalographic signature predicts antidepressant response in major depression. Nature Biotechnology, 2020, 38, 439-447.	17.5	157
12	Linked Component Analysis From Matrices to High-Order Tensors: Applications to Biomedical Data. Proceedings of the IEEE, 2016, 104, 310-331.	21.3	148
13	Sparse Group Representation Model for Motor Imagery EEG Classification. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 631-641.	6.3	140
14	A novel BCI based on ERP components sensitive to configural processing of human faces. Journal of Neural Engineering, 2012, 9, 026018.	3.5	132
15	The Changing Face of P300 BCIs: A Comparison of Stimulus Changes in a P300 BCI Involving Faces, Emotion, and Movement. PLoS ONE, 2012, 7, e49688.	2.5	125
16	Group Component Analysis for Multiblock Data: Common and Individual Feature Extraction. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2426-2439.	11.3	125
17	Discriminative Feature Extraction via Multivariate Linear Regression for SSVEP-Based BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 532-541.	4.9	120
18	A P300 Brain-Computer Interface Based on a Modification of the Mismatch Negativity Paradigm. International Journal of Neural Systems, 2015, 25, 1550011.	5.2	119

#	ARTICLE	IF	CITATIONS
19	Improved SFFS method for channel selection in motor imagery based BCI. <i>Neurocomputing</i> , 2016, 207, 519-527.	5.9	110
20	Exploiting Convolutional Neural Networks With Deeply Local Description for Remote Sensing Image Classification. <i>IEEE Access</i> , 2018, 6, 11215-11228.	4.2	110
21	EEG classification using sparse Bayesian extreme learning machine for brain-computer interface. <i>Neural Computing and Applications</i> , 2020, 32, 6601-6609.	5.6	106
22	Analysis and classification of speech imagery EEG for BCI. <i>Biomedical Signal Processing and Control</i> , 2013, 8, 901-908.	5.7	103
23	AN ERP-BASED BCI USING AN ODDBALL PARADIGM WITH DIFFERENT FACES AND REDUCED ERRORS IN CRITICAL FUNCTIONS. <i>International Journal of Neural Systems</i> , 2014, 24, 1450027.	5.2	103
24	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. <i>Scientific Reports</i> , 2017, 7, 6530.	3.3	102
25	LASSO based stimulus frequency recognition model for SSVEP BCIs. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 104-111.	5.7	101
26	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. <i>Pattern Recognition</i> , 2019, 88, 421-430.	8.1	101
27	Identification of psychiatric disorder subtypes from functional connectivity patterns in resting-state electroencephalography. <i>Nature Biomedical Engineering</i> , 2021, 5, 309-323.	22.5	100
28	Multway Canonical Correlation Analysis for Frequency Components Recognition in SSVEP-Based BCIs. <i>Lecture Notes in Computer Science</i> , 2011, , 287-295.	1.3	96
29	SSVEP recognition using common feature analysis in brain-computer interface. <i>Journal of Neuroscience Methods</i> , 2015, 244, 8-15.	2.5	88
30	AGGREGATION OF SPARSE LINEAR DISCRIMINANT ANALYSES FOR EVENT-RELATED POTENTIAL CLASSIFICATION IN BRAIN-COMPUTER INTERFACE. <i>International Journal of Neural Systems</i> , 2014, 24, 1450003.	5.2	83
31	Correlated Component Analysis for Enhancing the Performance of SSVEP-Based Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 948-956.	4.9	74
32	An optimized ERP brain-computer interface based on facial expression changes. <i>Journal of Neural Engineering</i> , 2014, 11, 036004.	3.5	72
33	Optimized Motor Imagery Paradigm Based on Imagining Chinese Characters Writing Movement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 1009-1017.	4.9	65
34	A Novel Multilayer Correlation Maximization Model for Improving CCA-Based Frequency Recognition in SSVEP Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2018, 28, 1750039.	5.2	65
35	Test-Retest Reliability of High-Order Functional Connectivity in Young Healthy Adults. <i>Frontiers in Neuroscience</i> , 2017, 11, 439.	2.8	54
36	A Novel EEMD-CCA Approach to Removing Muscle Artifacts for Pervasive EEG. <i>IEEE Sensors Journal</i> , 2019, 19, 8420-8431.	4.7	54

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37	A toolbox for brain network construction and classification (BrainNetClass). <i>Human Brain Mapping</i> , 2020, 41, 2808-2826.	3.6	52
38	A dynamic graph convolutional neural network framework reveals new insights into connectome dysfunctions in ADHD. <i>NeuroImage</i> , 2022, 246, 118774.	4.2	52
39	Assessment of human operator functional state using a novel differential evolution optimization based adaptive fuzzy model. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 490-498.	5.7	50
40	Sparse Bayesian multiway canonical correlation analysis for EEG pattern recognition. <i>Neurocomputing</i> , 2017, 225, 103-110.	5.9	50
41	Fast nonnegative tensor factorization based on accelerated proximal gradient and low-rank approximation. <i>Neurocomputing</i> , 2016, 198, 148-154.	5.9	47
42	Robust frequency recognition for SSVEP-based BCI with temporally local multivariate synchronization index. <i>Cognitive Neurodynamics</i> , 2016, 10, 505-511.	4.0	45
43	Whether generic model works for rapid ERP-based BCI calibration. <i>Journal of Neuroscience Methods</i> , 2013, 212, 94-99.	2.5	39
44	Drowsiness Detection by Bayesian-Copula Discriminant Classifier Based on EEG Signals During Daytime Short Nap. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 743-754.	4.2	37
45	A Generalized Graph Regularized Non-Negative Tucker Decomposition Framework for Tensor Data Representation. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 594-607.	9.5	34
46	An adaptive neural network approach for operator functional state prediction using psychophysiological data. <i>Integrated Computer-Aided Engineering</i> , 2015, 23, 81-97.	4.6	31
47	Regularized Group Sparse Discriminant Analysis for P300-Based Brain-Computer Interface. <i>International Journal of Neural Systems</i> , 2019, 29, 1950002.	5.2	30
48	Brain regulation of emotional conflict predicts antidepressant treatment response for depression. <i>Nature Human Behaviour</i> , 2019, 3, 1319-1331.	12.0	29
49	An Efficient Frequency Recognition Method Based on Likelihood Ratio Test for SSVEP-Based BCI. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-7.	1.3	28
50	A survey of the dummy face and human face stimuli used in BCI paradigm. <i>Journal of Neuroscience Methods</i> , 2015, 239, 18-27.	2.5	27
51	Multi-View Multi-Scale Optimization of Feature Representation for EEG Classification Improvement. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020, 28, 2589-2597.	4.9	27
52	Usage of drip drops as stimuli in an auditory P300 BCI paradigm. <i>Cognitive Neurodynamics</i> , 2018, 12, 85-94.	4.0	26
53	Brain Control: Human-computer Integration Control Based on Brain-computer Interface. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , 2014, 39, 208-221.	0.3	24
54	Multivariate classification of earthquake survivors with post-traumatic stress disorder based on large-scale brain networks. <i>Acta Psychiatrica Scandinavica</i> , 2020, 141, 285-298.	4.5	22

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55	Multiview Feature Learning With Multiatlas-Based Functional Connectivity Networks for MCI Diagnosis. IEEE Transactions on Cybernetics, 2022, 52, 6822-6833.	9.5	22
56	A Novel Method for Constructing EEG Large-Scale Cortical Dynamical Functional Network Connectivity (dFNC): WTCS. IEEE Transactions on Cybernetics, 2022, 52, 12869-12881.	9.5	20
57	Removal of muscle artefacts from few-channel EEG recordings based on multivariate empirical mode decomposition and independent vector analysis. Electronics Letters, 2018, 54, 866-868.	1.0	19
58	Improving EEG Decoding via Clustering-Based Multitask Feature Learning. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3587-3597.	11.3	16
59	Exploring Combinations of Different Color and Facial Expression Stimuli for Gaze-Independent BCIs. Frontiers in Computational Neuroscience, 2016, 10, 5.	2.1	14
60	Removal of EEG artifacts for BCI applications using fully Bayesian tensor completion. , 2016, , .		13
61	Constructing Multi-frequency High-Order Functional Connectivity Network for Diagnosis of Mild Cognitive Impairment. Lecture Notes in Computer Science, 2017, 10511, 9-16.	1.3	13
62	Bayesian Nonnegative CP Decomposition-based Feature Extraction Algorithm for Drowsiness Detection. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 25, 1-1.	4.9	12
63	An exploration of spatial auditory BCI paradigms with different sounds: music notes versus beeps. Cognitive Neurodynamics, 2016, 10, 201-209.	4.0	12
64	Motor imagery EEG classification via Bayesian extreme learning machine. , 2016, , .		11
65	A Comparison Study on Multidomain EEG Features for Sleep Stage Classification. Computational Intelligence and Neuroscience, 2017, 2017, 1-8.	1.7	10
66	Graph Regularized Nonnegative Tucker Decomposition for Tensor Data Representation. , 2019, , .		7
67	A Novel Oddball Paradigm for Affective BCIs Using Emotional Faces as Stimuli. Lecture Notes in Computer Science, 2011, , 279-286.	1.3	6
68	Inter-subject Similarity Guided Brain Network Modeling for MCI Diagnosis. Lecture Notes in Computer Science, 2017, 10541, 168-175.	1.3	6
69	EOG/ERP hybrid human-machine interface for robot control. , 2013, , .		5
70	Inter-modality Dependence Induced Data Recovery for MCI Conversion Prediction. Lecture Notes in Computer Science, 2019, , 186-195.	1.3	5
71	Regularized CSP with Fisher's criterion to improve classification of single-trial ERPs for BCI. , 2012, , .		4
72	Multilayer correlation maximization for frequency recognition in SSVEP brain-computer interface. , 2016, , .		4

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73	Generic Channels Selection in Motor Imagery-Based BCI. Advances in Cognitive Neurodynamics, 2016, , 413-419.	0.1	4
74	Effect of a combination of flip and zooming stimuli on the performance of a visual brain-computer interface for spelling. Biomedizinische Technik, 2018, 64, 29-38.	0.8	4
75	Fast Nonnegative Tensor Factorization by Using Accelerated Proximal Gradient. Lecture Notes in Computer Science, 2014, , 459-468.	1.3	4
76	Canonical Polyadic Decomposition: From 3-way to N-Way. , 2012, , .		3
77	Adaptive strategy for time window length in SSVEP-based brain-computer interface. , 2014, , .		3
78	SSVEP recognition using multivariate linear regression for brain computer interface. , 2015, , .		3
79	Comparisons of three BCIs which do not rely on the visual modality. , 2016, , .		3
80	Canonical polyadic decomposition (CPD) of big tensors with low multilinear rank. Multimedia Tools and Applications, 2021, 80, 22987-23007.	3.9	3
81	Decreasing the interference of visual-based P300 BCI using facial expression changes. , 2014, , .		2
82	Cerebral cortex layer segmentation using diffusion magnetic resonance imaging in vivo with applications to laminar connections and working memory analysis. Human Brain Mapping, 2022, 43, 5220-5234.	3.6	2
83	A Novel Combination of Time Phase and EEG Frequency Components for SSVEP-Based BCI. Lecture Notes in Computer Science, 2011, , 273-278.	1.3	1
84	Sparse optimal score based on generalized elastic net model for brain computer interface. , 2016, , .		1
85	Sparse Support Vector Machine for Simultaneous Feature Selection and Classification in Motor-Imagery-Based BCI. Advances in Cognitive Neurodynamics, 2016, , 363-369.	0.1	1
86	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification. , 2017, 2017, 917-922.		1
87	Improving the performance of online classifier by removing the error samples from offline training data. , 2015, , .		0
88	Design of a visual information-based brain-computer interface control system. , 2015, , .		0
89	An Optimized BCI System Based on P300 and Visual Mismatch Negativity. , 2015, , .		0
90	An Online Gaze-Independent BCI System Used Dummy Face with Eyes Only Region as Stimulus. Lecture Notes in Computer Science, 2016, , 26-34.	1.3	0

#	ARTICLE	IF	CITATIONS
91	Exploring motion visual-evoked potentials for multi-objective gaze-independent brain-computer interfaces. , 2016, , .		0
92	Exploring (C)overt attention for multi-objective gaze-independent BCIs, visual angle not exceeding 1 degree. , 2016, , .		0
93	A gaze-independent BCI paradigm used dummy face with only eyes region as stimuli. , 2016, , .		0
94	A Comparison Between Two Motion-Onset Visual BCI Patterns: Diffusion vs Contraction. Lecture Notes in Computer Science, 2017, , 447-456.	1.3	0