

# Zhu Liang Yu

## List of Publications by Year in descending order

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110  
papers

3,031  
citations

172207

29  
h-index

174990

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g-index

112  
all docs

112  
docs citations

112  
times ranked

2936  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Hybrid BCI System Combining P300 and SSVEP and Its Application to Wheelchair Control. IEEE Transactions on Biomedical Engineering, 2013, 60, 3156-3166.	2.5	297
2	An EEG-Based BCI System for 2-D Cursor Control by Combining Mu/Beta Rhythm and P300 Potential. IEEE Transactions on Biomedical Engineering, 2010, 57, 2495-2505.	2.5	257
3	Beampattern Synthesis for Linear and Planar Arrays With Antenna Selection by Convex Optimization. IEEE Transactions on Antennas and Propagation, 2010, 58, 3923-3930.	3.1	211
4	Three Recurrent Neural Networks and Three Numerical Methods for Solving a Repetitive Motion Planning Scheme of Redundant Robot Manipulators. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1423-1434.	3.7	133
5	A New Varying-Parameter Convergent-Differential Neural-Network for Solving Time-Varying Convex QP Problem Constrained by Linear-Equality. IEEE Transactions on Automatic Control, 2018, 63, 4110-4125.	3.6	126
6	Linear Aperiodic Array Synthesis Using an Improved Genetic Algorithm. IEEE Transactions on Antennas and Propagation, 2012, 60, 895-902.	3.1	119
7	Robust Adaptive Beamformers Based on Worst-Case Optimization and Constraints on Magnitude Response. IEEE Transactions on Signal Processing, 2009, 57, 2615-2628.	3.2	97
8	A Varying-Parameter Convergent-Differential Neural Network for Solving Joint-Angular-Drift Problems of Redundant Robot Manipulators. IEEE/ASME Transactions on Mechatronics, 2018, 23, 679-689.	3.7	96
9	Voxel Selection in fMRI Data Analysis Based on Sparse Representation. IEEE Transactions on Biomedical Engineering, 2009, 56, 2439-2451.	2.5	87
10	Motor Imagery Classification Based on Bilinear Sub-Manifold Learning of Symmetric Positive-Definite Matrices. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 504-516.	2.7	81
11	Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5106-5118.	5.9	72
12	Energy-Efficient ECG Compression on Wireless Biosensors via Minimal Coherence Sensing and Weighted $\ell_1$ Minimization Reconstruction. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 520-528.	3.9	66
13	Grouped Automatic Relevance Determination and Its Application in Channel Selection for P300 BCIs. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 1068-1077.	2.7	53
14	Deep Temporal-Spatial Feature Learning for Motor Imagery-Based Brain-Computer Interfaces. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 2356-2366.	2.7	51
15	Tricriteria Optimization-Coordination Motion of Dual-Redundant-Robot Manipulators for Complex Path Planning. IEEE Transactions on Control Systems Technology, 2018, 26, 1345-1357.	3.2	50
16	Dilated-Inception Net: Multi-Scale Feature Aggregation for Cardiac Right Ventricle Segmentation. IEEE Transactions on Biomedical Engineering, 2019, 66, 3499-3508.	2.5	50
17	A Robust Adaptive Beamformer Based on Worst-Case Semi-Definite Programming. IEEE Transactions on Signal Processing, 2010, 58, 5914-5919.	3.2	48
18	Linear Sparse Array Synthesis With Minimum Number of Sensors. IEEE Transactions on Antennas and Propagation, 2010, 58, 720-726.	3.1	47

#	ARTICLE	IF	CITATIONS
19	An Online Semi-supervised Brain-Computer Interface. IEEE Transactions on Biomedical Engineering, 2013, 60, 2614-2623.	2.5	47
20	An EOG-Based Human-Machine Interface to Control a Smart Home Environment for Patients With Severe Spinal Cord Injuries. IEEE Transactions on Biomedical Engineering, 2019, 66, 89-100.	2.5	45
21	A Novel Adaptive Beamformer Based on Semidefinite Programming (SDP) With Magnitude Response Constraints. IEEE Transactions on Antennas and Propagation, 2008, 56, 1297-1307.	3.1	41
22	Spatiotemporal-Filtering-Based Channel Selection for Single-Trial EEG Classification. IEEE Transactions on Cybernetics, 2021, 51, 558-567.	6.2	41
23	A comparison study of two P300 speller paradigms for brain-computer interface. Cognitive Neurodynamics, 2013, 7, 523-529.	2.3	38
24	A Hybrid Network for ERP Detection and Analysis Based on Restricted Boltzmann Machine. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 563-572.	2.7	38
25	MMAN: Multi-modality aggregation network for brain segmentation from MR images. Neurocomputing, 2019, 358, 10-19.	3.5	38
26	A Novel Three-Dimensional P300 Speller Based on Stereo Visual Stimuli. IEEE Transactions on Human-Machine Systems, 2018, 48, 392-399.	2.5	37
27	Multichannel Electrocardiogram Reconstruction in Wireless Body Sensor Networks Through Weighted $\ell_{1,2}$ Minimization. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2024-2034.	2.4	37
28	A novel multi-step Q-learning method to improve data efficiency for deep reinforcement learning. Knowledge-Based Systems, 2019, 175, 107-117.	4.0	36
29	Bilinear Regularized Locality Preserving Learning on Riemannian Graph for Motor Imagery BCI. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 698-708.	2.7	30
30	A clustering method based on extreme learning machine. Neurocomputing, 2018, 277, 108-119.	3.5	30
31	Bayesian electromagnetic spatio-temporal imaging of extended sources with Markov Random Field and temporal basis expansion. NeuroImage, 2016, 139, 385-404.	2.1	29
32	Evaluation of left pulmonary artery sling, associated cardiovascular anomalies, and surgical outcomes using cardiovascular computed tomography angiography. Scientific Reports, 2017, 7, 40042.	1.6	28
33	A semi-supervised support vector machine approach for parameter setting in motor imagery-based brain computer interfaces. Cognitive Neurodynamics, 2010, 4, 207-216.	2.3	25
34	A real-time visual object tracking system based on Kalman filter and MB-LBP feature matching. Multimedia Tools and Applications, 2016, 75, 2393-2409.	2.6	25
35	Using machine learning to predict one-year cardiovascular events in patients with severe dilated cardiomyopathy. European Journal of Radiology, 2019, 117, 178-183.	1.2	25
36	An Online Interactive Paradigm for P300 Brain-Computer Interface Speller. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 152-161.	2.7	25

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37	Clinical validation and assessment of aortic hemodynamics using computational fluid dynamics simulations from computed tomography angiography. <i>BioMedical Engineering OnLine</i> , 2018, 17, 53.	1.3	23
38	The comparison of short-term prognostic value of T1 mapping with feature tracking by cardiovascular magnetic resonance in patients with severe dilated cardiomyopathy. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 171-178.	0.7	19
39	Bayesian Electromagnetic Spatio-Temporal Imaging of Extended Sources Based on Matrix Factorization. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 2457-2469.	2.5	19
40	Spatial-Temporal Discriminative Restricted Boltzmann Machine for Event-Related Potential Detection and Analysis. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 139-151.	2.7	19
41	Capsule Network for ERP Detection in Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 718-730.	2.7	19
42	Extreme learning machine with multi-scale local receptive fields for texture classification. <i>Multidimensional Systems and Signal Processing</i> , 2017, 28, 995-1011.	1.7	18
43	Linear sparse array synthesis via convex optimization. , 2010, , .		16
44	STRAPS: A Fully Data-Driven Spatio-Temporally Regularized Algorithm for M/EEG Patch Source Imaging. <i>International Journal of Neural Systems</i> , 2015, 25, 1550016.	3.2	15
45	A Brain-Computer Interface Based on Three-Dimensional Stereo Stimuli for Assisting Clinical Object Recognition Assessment in Patients With Disorders of Consciousness. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019, 27, 507-513.	2.7	15
46	Reweighted sparse representation with residual compensation for 3D human pose estimation from a single RGB image. <i>Neurocomputing</i> , 2019, 358, 332-343.	3.5	15
47	Self-adaptive shared control with brain state evaluation network for human-wheelchair cooperation. <i>Journal of Neural Engineering</i> , 2020, 17, 045005.	1.8	15
48	Learning Invariant Patterns Based on a Convolutional Neural Network and Big Electroencephalography Data for Subject-Independent P300 Brain-Computer Interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021, 29, 1047-1057.	2.7	15
49	Deep Unfolding With Weighted $\ell_1$ Minimization for Compressive Sensing. <i>IEEE Internet of Things Journal</i> , 2021, 8, 3027-3041.	5.5	14
50	Classification of symmetric positive definite matrices based on bilinear isometric Riemannian embedding. <i>Pattern Recognition</i> , 2019, 87, 94-105.	5.1	13
51	Exemplar-Based Recursive Instance Segmentation With Application to Plant Image Analysis. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 389-404.	6.0	13
52	CNN-Based Hyperspectral Pansharpener With Arbitrary Resolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-21.	2.7	13
53	Discriminative dictionary learning for EEG signal classification in Brain-computer interface. , 2012, , .		12
54	Automatic Epilepsy Detection Based on Wavelets Constructed From Data. <i>IEEE Access</i> , 2018, 6, 53133-53140.	2.6	12

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55	Variation sparse source imaging based on conditional mean for electromagnetic extended sources. Neurocomputing, 2018, 313, 96-110.	3.5	12
56	Grouped sparse Bayesian learning for voxel selection in multivoxel pattern analysis of fMRI data. NeuroImage, 2019, 184, 417-430.	2.1	12
57	Multilayer Neural Dynamics-Based Adaptive Control of Multirotor UAVs for Tracking Time-Varying Tasks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5889-5900.	5.9	10
58	Toward Assessment of Sound Localization in Disorders of Consciousness Using a Hybrid Audiovisual Brain-Computer Interface. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1422-1432.	2.7	10
59	Regularized Sparse Recovery for Optical Power Monitoring With Low-Cost Tunable Optical Filters. IEEE Photonics Technology Letters, 2010, 22, 697-699.	1.3	9
60	Analysis of fMRI data based on sparsity of source components in signal dictionary. Neurocomputing, 2015, 156, 86-95.	3.5	9
61	A Robust Direction of Arrival Estimation Method for Uniform Circular Array. Sensors, 2019, 19, 4427.	2.1	8
62	Cross-correlation based discriminant criterion for channel selection in motor imagery BCI systems. Journal of Neural Engineering, 2021, 18, 046083.	1.8	8
63	Visual tracking using multi-channel correlation filters. , 2015, , .		7
64	Deterministic construction of sparse binary matrices via incremental integer optimization. Information Sciences, 2018, 430-431, 504-518.	4.0	7
65	A novel multi-step reinforcement learning method for solving reward hacking. Applied Intelligence, 2019, 49, 2874-2888.	3.3	7
66	Dynamic User Activity and Data Detection for Grant-Free NOMA via Weighted $\ell_{2,1}$ Minimization. IEEE Transactions on Wireless Communications, 2022, 21, 1638-1651.	6.1	6
67	Sparse and heuristic support vector machine for binary classifier and regressor fusion. International Journal of Machine Learning and Cybernetics, 2019, 10, 3667-3686.	2.3	5
68	Imaging brain extended sources from EEG/MEG based on variation sparsity using automatic relevance determination. Neurocomputing, 2020, 389, 132-145.	3.5	5
69	Feature extraction with multiscale autoregression of multichannel time series for P300 speller BCI. , 2010, , .		4
70	A rotation adaptive correlation filter for robust tracking. , 2015, , .		4
71	An Automatic Sleep Staging Model Combining Feature Learning and Sequence Learning. , 2020, , .		4
72	Single-Trial EEG Classification via Orthogonal Wavelet Decomposition-Based Feature Extraction. Frontiers in Neuroscience, 2021, 15, 715855.	1.4	4

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73	Compressive Sensing-Based Power Allocation Optimization for Energy Harvesting IoT Nodes. IEEE Transactions on Wireless Communications, 2022, 21, 4535-4548.	6.1	4
74	A Template-Matching Method for Optical Power Monitoring. IEEE Photonics Technology Letters, 2011, 23, 1388-1390.	1.3	3
75	A simple microphone array for source direction and distance estimation. , 2011, , .		3
76	Weighted Regularized Sparse Recovery Method for Optical Power Monitoring. IEEE Photonics Technology Letters, 2012, 24, 55-57.	1.3	3
77	Support vector machine based on low-rank tensor train decomposition for big data applications. , 2017, , .		3
78	Variable selection using the Lasso-Cox model with Bayesian regularization. , 2018, , .		3
79	Semi-supervised Deep Learning in Motor Imagery-Based Brain-Computer Interfaces with Stacked Variational Autoencoder. Journal of Physics: Conference Series, 2020, 1631, 012007.	0.3	3
80	SDM3d: shape decomposition of multiple geometric priors for 3D pose estimation. Neural Computing and Applications, 2021, 33, 2165-2181.	3.2	3
81	Inter-Subject MEG Decoding for Visual Information with Hybrid Gated Recurrent Network. Applied Sciences (Switzerland), 2021, 11, 1215.	1.3	3
82	Hierarchical dynamic movement primitive for the smooth movement of robots based on deep reinforcement learning. Applied Intelligence, 2023, 53, 1417-1434.	3.3	3
83	An Efficient Implementation of Modified Regularized Sparse Recovery for Real-Time Optical Power Monitoring. Journal of Lightwave Technology, 2012, 30, 2863-2869.	2.7	2
84	Long-tail distribution based multiscale-multiband autoregressive detection for hyperspectral imagery. Multidimensional Systems and Signal Processing, 2013, 24, 65-85.	1.7	2
85	Batch image alignment via subspace recovery based on alternative sparsity pursuit. Computational Visual Media, 2017, 3, 295-304.	10.8	2
86	The Early Stage Lung Cancer Prognosis Prediction Model based on Support Vector Machine. , 2018, , .		2
87	EEG extended source imaging with structured sparsity and $L_1$ -norm residual. Neural Computing and Applications, 2021, 33, 8513-8524.	3.2	2
88	fMRI-SI-STBF: An fMRI-informed Bayesian electromagnetic spatio-temporal extended source imaging. Neurocomputing, 2021, 462, 14-30.	3.5	2
89	A Real-time Unsupervised Two-stage Framework for Fabric Defect Detection. , 2021, , .		2
90	Exploiting Data Uncertainty for Improving the Performance of a Quantitative Analysis Model for Laser-Induced Breakdown Spectroscopy. Applied Spectroscopy, 2022, 76, 1123-1131.	1.2	2

#	ARTICLE	IF	CITATIONS
91	Sequentially updated least squares support vector machine with applications in online brain-computer interfaces. , 2011, , .		1
92	Approach of human face recognition based on SIFT feature extraction and 3D rotation model. , 2011, , .		1
93	Robust Adaptive Microphone Array with Mainlobe and Response Ripple Control. Journal of Signal Processing Systems, 2011, 63, 301-313.	1.4	1
94	A sparse voxel selection approach for fMRI data analysis with multi-dimensional derivative constraints. , 2011, , .		1
95	A new method for motor imagery classification based on Hidden Markov Model. , 2012, , .		1
96	Recoverability Analysis for Modified Compressive Sensing with Partially Known Support. PLoS ONE, 2014, 9, e87985.	1.1	1
97	Voxel selection and neural decoding of fMRI data based on robust sparse programming with multi-dimensional derivative constraints. Multidimensional Systems and Signal Processing, 2015, 26, 225-241.	1.7	1
98	A sleep spindle detection algorithm based on SVM and WT. , 2017, , .		1
99	Bayesian spatio-temporal decomposition for electromagnetic imaging of extended sources based on Destrieux atlas. , 2018, , .		1
100	A SSVEP-Based BCI for Controlling a 4-DOF Robotic Manipulator. , 2019, , .		1
101	Design and Implementation of a Health Status Reporting System Based on Spring Boot. , 2020, , .		1
102	Multiscale-Multivariate Autoregressive Detection for Hyperspectral Imagery. , 2010, , .		0
103	Elliptical symmetric distribution based maximal margin classification for hyperspectral imagery. , 2011, , .		0
104	A multi-class brain-computer interface using large margin nearest neighbor classification. , 2012, , .		0
105	Identifying activated brain regions from fMRI data based on blind non-negative component separation technique. , 2012, , .		0
106	Sufficient conditions for sparse recovery by weighted $\ell_1/\ell_2$ -constrained quadratic programming. , 2016, , .		0
107	Layer-wise Pre-training Mechanism Based on Neural Network for Epilepsy Detection. , 2020, , .		0
108	Novel Convolutional Neural Network with Variational Information Bottleneck for P300 Detection. Entropy, 2021, 23, 39.	1.1	0

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109	Adaptive Group Fusion Module for Improving Feature Fusion of Multi-modality Lumbar Spine MRI. , 2021, , .		0
110	Improving Latent Factor Analysis via Self-supervised Signal Extracting. , 2022, , .		0