

Zhu Liang Yu

List of Publications by Citations

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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.

92
papers

2,037
citations

23
h-index

43
g-index

111
ext. papers

2,525
ext. citations

4.6
avg, IF

5.19
L-index

#	Paper	IF	Citations
92	A hybrid BCI system combining P300 and SSVEP and its application to wheelchair control. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 3156-66	5	218
91	An EEG-based BCI system for 2-D cursor control by combining Mu/Beta rhythm and P300 potential. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 2495-505	5	207
90	Beampattern Synthesis for Linear and Planar Arrays With Antenna Selection by Convex Optimization. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 3923-3930	4.9	143
89	Three Recurrent Neural Networks and Three Numerical Methods for Solving a Repetitive Motion Planning Scheme of Redundant Robot Manipulators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1423-1434	5.5	107
88	. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 4110-4125	5.9	85
87	Linear Aperiodic Array Synthesis Using an Improved Genetic Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 895-902	4.9	81
86	Voxel selection in fMRI data analysis based on sparse representation. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2439-51	5	77
85	Robust Adaptive Beamformers Based on Worst-Case Optimization and Constraints on Magnitude Response. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 2615-2628	4.8	74
84	A Varying-Parameter Convergent-Differential Neural Network for Solving Joint-Angular-Drift Problems of Redundant Robot Manipulators. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 679-689 ^{5.5}	5.5	67
83	Energy-efficient ECG compression on wireless biosensors via minimal coherence sensing and weighted L1 minimization reconstruction. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 520-8	7.2	52
82	Motor Imagery Classification Based on Bilinear Sub-Manifold Learning of Symmetric Positive-Definite Matrices. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 504-516	4.8	47
81	Linear Sparse Array Synthesis With Minimum Number of Sensors. <i>IEEE Transactions on Antennas and Propagation</i> , 2010 , 58, 720-726	4.9	39
80	Grouped Automatic Relevance Determination and Its Application in Channel Selection for P300 BCIs. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015 , 23, 1068-77	4.8	38
79	An online semi-supervised brain-computer interface. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2614-23	5	38
78	Robustness Analysis of a Power-Type Varying-Parameter Recurrent Neural Network for Solving Time-Varying QM and QP Problems and Applications. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 5106-5118	7.3	38
77	Tricriteria Optimization-Coordination Motion of Dual-Redundant-Robot Manipulators for Complex Path Planning. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1345-1357	4.8	36
76	A Robust Adaptive Beamformer Based on Worst-Case Semi-Definite Programming. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5914-5919	4.8	35

75	A Novel Adaptive Beamformer Based on Semidefinite Programming (SDP) With Magnitude Response Constraints. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 1297-1307	4.9	35
74	A comparison study of two P300 speller paradigms for brain-computer interface. <i>Cognitive Neurodynamics</i> , 2013 , 7, 523-9	4.2	31
73	An EOG-Based Human-Machine Interface to Control a Smart Home Environment for Patients With Severe Spinal Cord Injuries. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 89-100	5	29
72	Dilated-Inception Net: Multi-Scale Feature Aggregation for Cardiac Right Ventricle Segmentation. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 3499-3508	5	27
71	MMAN: Multi-modality aggregation network for brain segmentation from MR images. <i>Neurocomputing</i> , 2019 , 358, 10-19	5.4	26
70	A clustering method based on extreme learning machine. <i>Neurocomputing</i> , 2018 , 277, 108-119	5.4	26
69	A Hybrid Network for ERP Detection and Analysis Based on Restricted Boltzmann Machine. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 563-572	4.8	23
68	Bayesian electromagnetic spatio-temporal imaging of extended sources with Markov Random Field and temporal basis expansion. <i>NeuroImage</i> , 2016 , 139, 385-404	7.9	23
67	A Novel Three-Dimensional P300 Speller Based on Stereo Visual Stimuli. <i>IEEE Transactions on Human-Machine Systems</i> , 2018 , 48, 392-399	4.1	21
66	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 2024-2034	5.2	21
65	A semi-supervised support vector machine approach for parameter setting in motor imagery-based brain computer interfaces. <i>Cognitive Neurodynamics</i> , 2010 , 4, 207-16	4.2	21
64	Evaluation of left pulmonary artery sling, associated cardiovascular anomalies, and surgical outcomes using cardiovascular computed tomography angiography. <i>Scientific Reports</i> , 2017 , 7, 40042	4.9	20
63	Bilinear Regularized Locality Preserving Learning on Riemannian Graph for Motor Imagery BCI. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018 , 26, 698-708	4.8	20
62	Using machine learning to predict one-year cardiovascular events in patients with severe dilated cardiomyopathy. <i>European Journal of Radiology</i> , 2019 , 117, 178-183	4.7	19
61	An Online Interactive Paradigm for P300 Brain-Computer Interface Speller. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 152-161	4.8	18
60	A novel multi-step Q-learning method to improve data efficiency for deep reinforcement learning. <i>Knowledge-Based Systems</i> , 2019 , 175, 107-117	7.3	17
59	Extreme learning machine with multi-scale local receptive fields for texture classification. <i>Multidimensional Systems and Signal Processing</i> , 2017 , 28, 995-1011	1.8	16
58	Spatiotemporal-Filtering-Based Channel Selection for Single-Trial EEG Classification. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 558-567	10.2	16

57	A real-time visual object tracking system based on Kalman filter and MB-LBP feature matching. <i>Multimedia Tools and Applications</i> , 2016 , 75, 2393-2409	2.5	15
56	Deep Temporal-Spatial Feature Learning for Motor Imagery-Based Brain-Computer Interfaces. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2020 , 28, 2356-2366	4.8	15
55	Clinical validation and assessment of aortic hemodynamics using computational fluid dynamics simulations from computed tomography angiography. <i>BioMedical Engineering OnLine</i> , 2018 , 17, 53	4.1	14
54	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	6.2	12
53	Linear sparse array synthesis via convex optimization 2010 ,		11
52	Discriminative dictionary learning for EEG signal classification in Brain-computer interface 2012 ,		10
51	Classification of symmetric positive definite matrices based on bilinear isometric Riemannian embedding. <i>Pattern Recognition</i> , 2019 , 87, 94-105	7.7	10
50	Self-adaptive shared control with brain state evaluation network for human-wheelchair cooperation. <i>Journal of Neural Engineering</i> , 2020 , 17, 045005	5	9
49	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	2.5	9
48	Variation sparse source imaging based on conditional mean for electromagnetic extended sources. <i>Neurocomputing</i> , 2018 , 313, 96-110	5.4	9
47	Reweighted sparse representation with residual compensation for 3D human pose estimation from a single RGB image. <i>Neurocomputing</i> , 2019 , 358, 332-343	5.4	8
46	Grouped sparse Bayesian learning for voxel selection in multivoxel pattern analysis of fMRI data. <i>NeuroImage</i> , 2019 , 184, 417-430	7.9	8
45	Exemplar-Based Recursive Instance Segmentation With Application to Plant Image Analysis. <i>IEEE Transactions on Image Processing</i> , 2019 ,	8.7	8
44	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	4.8	7
43	Automatic Epilepsy Detection Based on Wavelets Constructed From Data. <i>IEEE Access</i> , 2018 , 6, 53133-53140	3.4	7
42	Analysis of fMRI data based on sparsity of source components in signal dictionary. <i>Neurocomputing</i> , 2015 , 156, 86-95	5.4	6
41	CNN-Based Hyperspectral Pansharpener with Arbitrary Resolution. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	6
40	Bayesian Electromagnetic Spatio-Temporal Imaging of Extended Sources Based on Matrix Factorization. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2457-2469	5	5

39	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	4.8	5
38	A Robust Direction of Arrival Estimation Method for Uniform Circular Array. <i>Sensors</i> , 2019 , 19,	3.8	5
37	Regularized Sparse Recovery for Optical Power Monitoring With Low-Cost Tunable Optical Filters. <i>IEEE Photonics Technology Letters</i> , 2010 , 22, 697-699	2.2	5
36	Deterministic construction of sparse binary matrices via incremental integer optimization. <i>Information Sciences</i> , 2018 , 430-431, 504-518	7.7	4
35	Deep Unfolding With Weighted ℓ_1 Minimization for Compressive Sensing. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 3027-3041	10.7	4
34	Capsule Network for ERP Detection in Brain-Computer Interface. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2021 , 29, 718-730	4.8	4
33	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	4.8	4
32	Sparse and heuristic support vector machine for binary classifier and regressor fusion. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 3667-3686	3.8	3
31	A rotation adaptive correlation filter for robust tracking 2015 ,		3
30	Semi-supervised Deep Learning in Motor Imagery-Based Brain-Computer Interfaces with Stacked Variational Autoencoder. <i>Journal of Physics: Conference Series</i> , 2020 , 1631, 012007	0.3	3
29	Imaging brain extended sources from EEG/MEG based on variation sparsity using automatic relevance determination. <i>Neurocomputing</i> , 2020 , 389, 132-145	5.4	3
28	Support vector machine based on low-rank tensor train decomposition for big data applications 2017 ,		3
27	A simple microphone array for source direction and distance estimation 2011 ,		3
26	Long-tail distribution based multiscale-multiband autoregressive detection for hyperspectral imagery. <i>Multidimensional Systems and Signal Processing</i> , 2013 , 24, 65-85	1.8	2
25	Batch image alignment via subspace recovery based on alternative sparsity pursuit. <i>Computational Visual Media</i> , 2017 , 3, 295-304	3.9	2
24	Weighted Regularized Sparse Recovery Method for Optical Power Monitoring. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 55-57	2.2	2
23	Feature extraction with multiscale autoregression of multichannel time series for P300 speller BCI 2010 ,		2
22	A novel multi-step reinforcement learning method for solving reward hacking. <i>Applied Intelligence</i> , 2019 , 49, 2874-2888	4.9	2

21	The Early Stage Lung Cancer Prognosis Prediction Model based on Support Vector Machine 2018 ,		2
20	Voxel selection and neural decoding of fMRI data based on robust sparse programming with multi-dimensional derivative constraints. <i>Multidimensional Systems and Signal Processing</i> , 2015 , 26, 225-241	1.8	1
19	Bayesian spatio-temporal decomposition for electromagnetic imaging of extended sources based on Destrieux atlas 2018 ,		1
18	An Efficient Implementation of Modified Regularized Sparse Recovery for Real-Time Optical Power Monitoring. <i>Journal of Lightwave Technology</i> , 2012 , 30, 2863-2869	4	1
17	Approach of human face recognition based on SIFT feature extraction and 3D rotation model 2011 ,		1
16	Robust Adaptive Microphone Array with Mainlobe and Response Ripple Control. <i>Journal of Signal Processing Systems</i> , 2011 , 63, 301-313	1.4	1
15	A Template-Matching Method for Optical Power Monitoring. <i>IEEE Photonics Technology Letters</i> , 2011 , 23, 1388-1390	2.2	1
14	A sparse voxel selection approach for fMRI data analysis with multi-dimensional derivative constraints 2011 ,		1
13	Multilayer Neural Dynamics-Based Adaptive Control of Multirotor UAVs for Tracking Time-Varying Tasks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-12	7.3	1
12	SDM3d: shape decomposition of multiple geometric priors for 3D pose estimation. <i>Neural Computing and Applications</i> , 2021 , 33, 2165-2181	4.8	1
11	Variable selection using the Lasso-Cox model with Bayesian regularization 2018 ,		1
10	Dynamic User Activity and Data Detection for Grant-free NOMA via Weighted ℓ_1 Minimization. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	1
9	Recoverability analysis for modified compressive sensing with partially known support. <i>PLoS ONE</i> , 2014 , 9, e87985	3.7	0
8	Single-Trial EEG Classification via Orthogonal Wavelet Decomposition-Based Feature Extraction. <i>Frontiers in Neuroscience</i> , 2021 , 15, 715855	5.1	0
7	Maximum a Posteriori Based Fusion Method for Speech Emotion Recognition 2015 , 215-235		
6	Compressive Sensing Based Power Allocation Optimization for Energy Harvesting IoT Nodes. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	
5	Inter-Subject MEG Decoding for Visual Information with Hybrid Gated Recurrent Network. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1215	2.6	
4	EEG extended source imaging with structured sparsity and (L_1) -norm residual. <i>Neural Computing and Applications</i> , 2021 , 33, 8513	4.8	

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| 3 | fMRI-SI-STBF: An fMRI-informed Bayesian electromagnetic spatio-temporal extended source imaging. <i>Neurocomputing</i> , 2021 , 462, 14-30 | 5.4 |
| 2 | Hierarchical dynamic movement primitive for the smooth movement of robots based on deep reinforcement learning. <i>Applied Intelligence</i> ,1 | 4.9 |
| 1 | Exploiting Data Uncertainty for Improving the Performance of a Quantitative Analysis Model of Laser-Induced Breakdown Spectroscopy. <i>Applied Spectroscopy</i> ,000370282211084 | 3.1 |