

# Zhiwen Liu

## List of Publications by Year in descending order

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94  
papers

406  
citations

1040056

9  
h-index

996975

15  
g-index

95  
all docs

95  
docs citations

95  
times ranked

403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Root high-order cumulant MUSIC. , 2022, 122, 103328.		4
2	Robust Aligned Widely Linear Beamforming. , 2022, , .		0
3	Super-Resolved $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.svg" \rangle \langle \text{mml:mi} \rangle \text{q} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Space deep learning with uncertainty quantification. Medical Image Analysis, 2021, 67, 101885.	11.6	27
4	Enhancing the EEG classification in RSVP task by combining interval model of ERPs with spatial and temporal regions of interest. Journal of Neural Engineering, 2021, 18, 016008.	3.5	7
5	Polarised beampattern synthesis against array manifold mismatch. IET Microwaves, Antennas and Propagation, 2021, 15, 910-924.	1.4	0
6	Multimodal super-resolved q-space deep learning. Medical Image Analysis, 2021, 71, 102085.	11.6	10
7	A deep learning method for single-trial EEG classification in RSVP task based on spatiotemporal features of ERPs. Journal of Neural Engineering, 2021, 18, 0460c8.	3.5	14
8	Aperiodic Vector Antenna Switching based Direction of Arrival Estimation for Noncircular Signals. , 2021, , .		0
9	Two-dimensional Direction-of-arrival Estimation in Monostatic MIMO Radar. , 2021, , .		0
10	Sports fatigue detection based on deep learning. , 2021, , .		9
11	Facial expression recognition algorithm based on parameter adaptive initialization of CNN and LSTM. Visual Computer, 2020, 36, 483-498.	3.5	42
12	Robust Polarimetric Adaptive Detector Against Target Steering Matrix Mismatch. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 442-455.	4.7	6
13	Generating high quality crowd density map based on perceptual loss. Applied Intelligence, 2020, 50, 1073-1085.	5.3	7
14	Random Nyström Approach to Clutter Subspace Estimation for Polarimetric Space-Time Adaptive Processing. Electronics (Switzerland), 2020, 9, 1488.	3.1	1
15	Real-time and accurate abnormal behavior detection in videos. Machine Vision and Applications, 2020, 31, 1.	2.7	10
16	Knowledge Transfer Between Datasets for Learning-Based Tissue Microstructure Estimation. , 2020, , .		2
17	A Nyström-Based Method for Incoherently Distributed Source Localization. , 2020, , .		0
18	Cumulant-Based Biquaternion Approach to Direction Finding of Wideband Signals. IEEE Communications Letters, 2020, 24, 630-634.	4.1	3

#	ARTICLE	IF	CITATIONS
19	Diversely polarised sparse array design with minimum interelement spacing constraint for polarised pattern synthesis. Electronics Letters, 2020, 56, 221-223.	1.0	2
20	Sparse representation approaches to parameter estimation of completely polarized wideband signals. Signal Processing, 2020, 171, 107521.	3.7	2
21	Decoupled DOA and Polarization Estimation Based on Block 2D Sparse Representation. , 2020, , .		0
22	Target Detection using Polarimetric Distributed MIMO Radar in Heterogeneous Compound-Gaussian Clutter. , 2020, , .		0
23	Manifold Separation Based DOA Estimation Using Fourth-order Cumulant. , 2020, , .		0
24	Polarimetric Clutter Nulling Space-Time Adaptive Processing. , 2020, , .		0
25	Block sparse representation approach to 2D DOA and polarisation estimation of wideband signals using a sparse vector antenna array. IET Radar, Sonar and Navigation, 2020, 14, 1929-1939.	1.8	0
26	Quantitative analysis of cell morphology based on the contourlet transform. IET Image Processing, 2020, 14, 2826-2832.	2.5	1
27	A Patient Specific Seizure Prediction in Long Term EEG based on Adaptive Channel Selection and Preictal Period Selection. , 2020, , .		1
28	Endoscopic Image Deblurring and Super-Resolution Reconstruction Based on Deep Learning. , 2020, , .		4
29	Efficient 3D Neural Networks with Support Vector Machine for Hippocampus Segmentation. , 2020, , .		3
30	Direction-of-Arrival Estimation of Circular and Noncircular Wideband Source Signals via Augmented Envelope Alignment. IEEE Systems Journal, 2019, 13, 1219-1230.	4.6	9
31	Hippocampal subfields segmentation in brain MR images using generative adversarial networks. BioMedical Engineering OnLine, 2019, 18, 5.	2.7	23
32	Analyzing temporal dynamics of cell deformation and intracellular movement with video feature aggregation. BioMedical Engineering OnLine, 2019, 18, 20.	2.7	2
33	Mutual Coupling Self-Calibration for Parameter Estimation with Vector Antennas. , 2019, , .		4
34	Direction Finding of Wideband Signals Using Identically Oriented Vector Antennas. , 2019, , .		0
35	Direction of Arrival Estimation of Wideband Noncircular Signals in Frequency Domain. , 2019, , .		0
36	Tri-polarized Sparse Array Design for Mutual Coupling Reduction in Direction Finding and Polarization Estimation. Electronics (Switzerland), 2019, 8, 1557.	3.1	4

#	ARTICLE	IF	CITATIONS
37	Moving target detection with polarimetric distributed MIMO radar in heterogeneous clutter. Journal of Engineering, 2019, 2019, 8009-8012.	1.1	2
38	Aligned Propagator Scanning Approach to DOA Estimation of Circular and Noncircular Wideband Source Signals. IEEE Transactions on Vehicular Technology, 2019, 68, 1702-1717.	6.3	15
39	Adaptive density distribution inspired affinity propagation clustering. Neural Computing and Applications, 2019, 31, 435-445.	5.6	5
40	Aligned Subspace Rotation Approach to Parameter Estimation of Wideband Source Signals. , 2019, , .		0
41	Polarimetric STAP via Clutter Spectrum Reconstruction. , 2019, , .		0
42	Generalised RAO test for polarimetric target detection. Journal of Engineering, 2019, 2019, 7170-7173.	1.1	0
43	Transmitter and receiver polarisation optimisation design for target. Journal of Engineering, 2019, 2019, 7898-7901.	1.1	0
44	Spatio-temporal Pattern Analysis for EEG Classification in Rapid Serial Visual Presentation Task. , 2019, , .		0
45	Polarimetric detection and range estimation for a point-like target in non-Gaussian clutter. IET Radar, Sonar and Navigation, 2018, 12, 361-365.	1.8	7
46	Computational Analysis of Cell Dynamics in Videos with Hierarchical-Pooled Deep-Convolutional Features. Journal of Computational Biology, 2018, 25, 934-953.	1.6	1
47	Adaptive Crowd Segmentation Based on Coherent Motion Detection. Journal of Signal Processing Systems, 2018, 90, 1651-1666.	2.1	8
48	On Transmitter Polarization Optimization for Target Scattering Matrix Estimation. , 2018, , .		2
49	Parameter Estimation of Coexisted Circular and Strictly Noncircular Sources Using Diversely Polarized Antennas. IEEE Communications Letters, 2018, 22, 1822-1825.	4.1	11
50	Cell dynamic morphology classification using deep convolutional neural networks. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 628-638.	1.5	17
51	Direction Finding for Wideband Source Signals via Steered Effective Projection. IEEE Sensors Journal, 2018, 18, 741-751.	4.7	5
52	Diversely polarised antenna-based narrowband/wideband beamforming via polarisational reconstruction matrix inversion. IET Signal Processing, 2018, 12, 358-367.	1.5	2
53	Envelope aligned inverse power scanning for direction-of-arrival estimation of circular and non-circular wideband source signals. IET Microwaves, Antennas and Propagation, 2018, 12, 1494-1503.	1.4	5
54	Polarimetric ABORT-like adaptive detector in the presence of target steering vector mismatch. , 2017, , .		3

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55	Parameter estimation of coexisted circular and strictly non-circular signals. Electronics Letters, 2017, 53, 864-866.	1.0	10
56	Parameter Estimation Using Partly Calibrated Vector Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 860-863.	4.0	5
57	Blood pressure estimation based on pulse transit time with LANDMARC. , 2017, , .		0
58	Quantitative Analysis of Intracellular Motility Based on Optical Flow Model. Journal of Healthcare Engineering, 2017, 2017, 1-10.	1.9	5
59	Design and implementation of a BSN-based system for plantar health evaluation with exercise load quantification. BioMedical Engineering OnLine, 2017, 16, 98.	2.7	2
60	Human gait recognition based on Discrete Cosine Transform and Linear Discriminant Analysis. , 2016, , .		1
61	Robust widely linear beamforming against look direction error. , 2016, , .		2
62	Regularized polarimetric target detection in the presence of inhomogeneous and/or non-stationary clutter. , 2016, , .		0
63	Parameter estimation of rectilinear signals using multiple noncollocated and diversely polarized antennas. , 2016, , .		0
64	Boosting 3D model retrieval with class vocabularies and distance vector revision. , 2015, , .		3
65	The measurement of cell viability based on temporal bag of words for image sequences. , 2015, , .		2
66	Alpha-band oscillation during speech recognition under different sensory conditions. , 2015, , .		4
67	Segmentation and Tracking of Lymphocytes Based on Modified Active Contour Models in Phase Contrast Microscopy Images. Computational and Mathematical Methods in Medicine, 2015, 2015, 1-9.	1.3	7
68	Three-dimensional wind profile prediction with trinion-valued adaptive algorithms. , 2015, , .		5
69	Quantitative analysis of live lymphocytes morphology and intracellular motion in microscopic images. Biomedical Signal Processing and Control, 2015, 18, 195-203.	5.7	5
70	Blind Separation of Noncircular Sources Via Approximate Joint Diagonalization of Augmented Charrelation Matrices. Circuits, Systems, and Signal Processing, 2015, 34, 695-705.	2.0	1
71	EEG gamma-band activity during audiovisual speech comprehension in different noise environments. Cognitive Neurodynamics, 2015, 9, 389-398.	4.0	5
72	Biquaternion noncircular MUSIC. Multidimensional Systems and Signal Processing, 2015, 26, 95-111.	2.6	2

#	ARTICLE	IF	CITATIONS
73	Fully automatic robust adaptive beamforming using the constant modulus feature. IET Signal Processing, 2014, 8, 823-830.	1.5	6
74	Polynomial-rooting based fourth-order MUSIC for direction-of-arrival estimation of noncircular signals. Journal of Systems Engineering and Electronics, 2014, 25, 942-948.	2.2	9
75	On imaginary-valued diagonal loading levels with application to hyperparameter-free robust adaptive beamforming. , 2014, , .		0
76	Bicomplex-valued adaptive filtering with application to wind profile prediction. , 2014, , .		0
77	Automatic segmentation of hippocampal subfields based on multi-atlas image segmentation techniques. Journal of Electronics, 2014, 31, 121-128.	0.2	0
78	Polarization sensitive PARAFAC beamforming for near-field/far-field signals using co-centered orthogonal loop and dipole pairs. , 2013, , .		4
79	Derivative constrained Noncircularity-rate Maximization robust beamforming. , 2013, , .		0
80	Quasi-vector-cross-product based direction finding algorithm with a Spatially Stretched tripole. , 2013, , .		8
81	A developed algorithm for oscillometric blood pressure measurement. , 2013, , .		1
82	Quaternion-based worst case constrained beamformer based on electromagnetic vector-sensor arrays. , 2013, , .		9
83	An adaptive particle filter tracking algorithm based on multi-information fusion. , 2012, , .		0
84	Markov Random Field model based multimodal medical image registration. , 2012, , .		1
85	Cell image segmentation and tracking based on VFC Snake model in vivo. , 2012, , .		0
86	Adaptive fourth-order tensor beamformer. , 2011, , .		0
87	Quaternion-Capon beamformer using crossed-dipole arrays. , 2011, , .		9
88	Capon beamformer for acoustic vector sensor arrays using biquaternions. , 2011, , .		2
89	FPGA implementation of ICA algorithm for adaptive noise canceling. , 2011, , .		1
90	A note on a fast high-resolution method for bearing estimation in shallow ocean. Multidimensional Systems and Signal Processing, 2011, 22, 349-359.	2.6	4

#	ARTICLE	IF	CITATIONS
91	A Novel Surface Tension Coefficient Measurement Method Based on Microposts Array Microfluidic Chip. <i>Integrated Ferroelectrics</i> , 2011, 127, 172-177.	0.7	0
92	Multi-modal diffeomorphic demons registration based on mutual information. , 2011, , .		1
93	Explored research on data preprocessing and mining technology for clinical data applications. , 2010, , .		11
94	High-resolution DOA estimation of noncircular signals without source enumeration and eigendecomposition. , 2009, , .		0