Wei-Ping Zhu

List of Publications by Year
in descending order

302	5,855	81900	106344
papers	citations	39	65
		h-index	g-index

302	302	302	3503
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Secure Transmission in Cognitive Satellite Terrestrial Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3025-3037.	14.0	277
2	Supporting IoT With Rate-Splitting Multiple Access in Satellite and Aerial-Integrated Networks. IEEE Internet of Things Journal, 2021, 8, 11123-11134.	8.7	243
3	Relay-Selection Improves the Security-Reliability Trade-Off in Cognitive Radio Systems. IEEE Transactions on Communications, 2015, 63, 215-228.	7.8	233
4	Outage Performance of Cognitive Hybrid Satellite–Terrestrial Networks With Interference Constraint. IEEE Transactions on Vehicular Technology, 2016, 65, 9397-9404.	6.3	137
5	A Toeplitz Covariance Matrix Reconstruction Approach for Direction-of-Arrival Estimation. IEEE Transactions on Vehicular Technology, 2017, 66, 8223-8237.	6.3	137
6	Secure and Energy Efficient Transmission for RSMA-Based Cognitive Satellite-Terrestrial Networks. IEEE Wireless Communications Letters, 2021, 10, 251-255.	5.0	137
7	Secrecy-Energy Efficient Hybrid Beamforming for Satellite-Terrestrial Integrated Networks. IEEE Transactions on Communications, 2021, 69, 6345-6360.	7.8	133
8	Joint Beamforming for Secure Communication in Cognitive Satellite Terrestrial Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 1017-1029.	14.0	126
9	Direction of Arrival Estimation for Off-Grid Signals Based on Sparse Bayesian Learning. IEEE Sensors Journal, 2016, 16, 2004-2016.	4.7	113
10	Robust Secure Beamforming for 5G Cellular Networks Coexisting With Satellite Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 932-945.	14.0	102
11	Joint Beamforming and Power Control for Device-to-Device Communications Underlaying Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 138-150.	14.0	93
12	Joint 2-D DOA Estimation via Sparse L-shaped Array. IEEE Transactions on Signal Processing, 2015, 63, 1171-1182.	5.3	90
13	Wavelet Domain Feature Extraction Scheme Based on Dominant Motor Unit Action Potential of EMG Signal for Neuromuscular Disease Classification. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 155-164.	4.0	82
14	On the Performance of LMS Communication With Hardware Impairments and Interference. IEEE Transactions on Communications, 2019, 67, 1490-1505.	7.8	82
15	Secure Beamforming for Cognitive Satellite Terrestrial Networks With Unknown Eavesdroppers. IEEE Systems Journal, 2021, 15, 2186-2189.	4.6	79
16	Pilot Allocation for Distributed-Compressed-Sensing-Based Sparse Channel Estimation in MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 2990-3004.	6.3	77
17	Two sparse-based methods for off-grid direction-of-arrival estimation. Signal Processing, 2018, 142, 87-95.	3.7	75
18	Efficient Two-Dimensional Direction-of-Arrival Estimation for a Mixture of Circular and Noncircular Sources. IEEE Sensors Journal, 2016, 16, 2527-2536.	4.7	72

#	ARTICLE	IF	CITATIONS
19	Performance Analysis of Integrated Satellite-Terrestrial Multiantenna Relay Networks With Multiuser Scheduling. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2718-2731.	4.7	71
20	Multiuser Scheduling for Asymmetric FSO/RF Links in Satellite-UAV-Terrestrial Networks. IEEE Wireless Communications Letters, 2020, 9, 1235-1239.	5.0	71
21	ESPRIT-like two-dimensional direction finding for mixed circular and strictly noncircular sources based on joint diagonalization. Signal Processing, 2017, 141, 48-56.	3.7	69
22	Performance Analysis of Hybrid Satellite-Terrestrial Cooperative Networks With Relay Selection. IEEE Transactions on Vehicular Technology, 2020, 69, 9053-9067.	6.3	67
23	A Semiblind Channel Estimation Approach for MIMO–OFDM Systems. IEEE Transactions on Signal Processing, 2008, 56, 2821-2834.	5.3	66
24	Robust Cooperative Secure Beamforming for Simultaneous Wireless Information and Power Transfer in Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 2354-2366.	6.3	64
25	A High-Resolution DOA Estimation Method With a Family of Nonconvex Penalties. IEEE Transactions on Vehicular Technology, 2018, 67, 4925-4938.	6.3	64
26	Robust Secure Beamforming for Wireless Powered Cognitive Satellite-Terrestrial Networks. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 567-580.	7.9	62
27	Pilot Allocation for Sparse Channel Estimation in MIMO-OFDM Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 612-616.	3.0	58
28	Recent Developments in Speech Enhancement in the Short-Time Fourier Transform Domain. IEEE Circuits and Systems Magazine, 2016, 16, 45-77.	2.3	55
29	Uplink Massive Access in Mixed RF/FSO Satellite-Aerial-Terrestrial Networks. IEEE Transactions on Communications, 2021, 69, 2413-2426.	7.8	55
30	A Joint Source and Relay Power Allocation Scheme for a Class of MIMO Relay Systems. IEEE Transactions on Signal Processing, 2009, 57, 4852-4860.	5.3	54
31	Semiblind Sparse Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 2569-2582.	6.3	53
32	Robust Secure Beamforming for Multibeam Satellite Communication Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 6202-6206.	6.3	53
33	Optimal Beamformer Design for Dual-Hop MIMO AF Relay Networks over Rayleigh Fading Channels. IEEE Journal on Selected Areas in Communications, 2012, 30, 1402-1414.	14.0	51
34	RARE-based localization for mixed near-field and far-field rectilinear sources. , 2019, 85, 54-61.		51
35	Two-Way MIMO Relay Precoder Design with Channel State Information. IEEE Transactions on Communications, 2010, 58, 3358-3363.	7.8	44
36	Security–Reliability Tradeoff Analysis of Multirelay-Aided Decode-and-Forward Cooperation Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5825-5831.	6.3	44

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37	Spectrum sensing based on fractional lower order moments for cognitive radios in α-stable distributed noise. Signal Processing, 2015, 111, 94-105.	3.7	43
38	Sleep Apnea Detection Based on Rician Modeling of Feature Variation in Multiband EEG Signal. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1066-1074.	6.3	41
39	Robust Multi-Objective Beamforming for Integrated Satellite and High Altitude Platform Network With Imperfect Channel State Information. IEEE Transactions on Signal Processing, 2019, 67, 6384-6396.	5.3	41
40	A Fast Gridless Covariance Matrix Reconstruction Method for One- and Two-Dimensional Direction-of-Arrival Estimation. IEEE Sensors Journal, 2017, 17, 4916-4927.	4.7	40
41	Secrecy performance of hybrid satellite–terrestrial relay networks in the presence of multiple eavesdroppers. IET Communications, 2018, 12, 26-34.	2.2	40
42	A closed-form solution to the least-square design problem of 2-D linear-phase FIR filters. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1997, 44, 1032-1039.	2.2	39
43	Secrecy Energy Efficiency Maximization in Cognitive Radio Networks. IEEE Access, 2017, 5, 2641-2650.	4.2	39
44	Joint Maximum Likelihood Timing, Frequency Offset, and Doubly Selective Channel Estimation for OFDM Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 2787-2791.	6.3	39
45	An Open-Loop Adaptive Space-Time Transmit Scheme for Correlated Fading Channels. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 147-158.	10.8	38
46	A least-square design approach for 2D FIR filters with arbitrary frequency response. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1999, 46, 1027-1034.	2.2	36
47	Compensation of Loudspeaker Nonlinearity in Acoustic Echo Cancellation Using Raised-Cosine Function. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 1190-1194.	2.2	36
48	Energy harvest and information transmission design in internet-of-things wireless communication systems. AEU - International Journal of Electronics and Communications, 2018, 87, 124-127.	2.9	36
49	A Fully Convolutional Neural Network for Complex Spectrogram Processing in Speech Enhancement. , 2019, , .		35
50	Secrecy Outage Probability and Average Rate of RIS-Aided Communications Using Quantized Phases. IEEE Communications Letters, 2021, 25, 1820-1824.	4.1	32
51	Carrier Frequency Offset Estimation and I/Q Imbalance Compensation for OFDM Systems. Eurasip Journal on Advances in Signal Processing, 2007, 2007, .	1.7	31
52	Secrecy Performance of Satellite Wiretap Channels With Multi-User Opportunistic Scheduling. IEEE Wireless Communications Letters, 2018, 7, 1054-1057.	5.0	30
53	Abnormality Detection in Musculoskeletal Radiographs Using Capsule Network. IEEE Access, 2019, 7, 81494-81503.	4.2	30
54	Optimal Pilot Pattern Design for Compressed Sensing-Based Sparse Channel Estimation in OFDM Systems. Circuits, Systems, and Signal Processing, 2012, 31, 1379-1395.	2.0	29

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55	Compressive sensingâ€based speech enhancement in nonâ€sparse noisy environments. IET Signal Processing, 2013, 7, 450-457.	1.5	29
56	TAS-Based Incremental Hybrid Decodeâ€"Amplifyâ€"Forward Relaying for Physical Layer Security Enhancement. IEEE Transactions on Communications, 2017, 65, 3876-3891.	7.8	29
57	The Theory of Compressive Sensing Matching Pursuit Considering Time-domain Noise with Application to Speech Enhancement. IEEE/ACM Transactions on Audio Speech and Language Processing, 2014, 22, 682-696.	5.8	28
58	Joint Carrier Frequency Offset and Doubly Selective Channel Estimation for MIMO-OFDMA Uplink With Kalman and Particle Filtering. IEEE Transactions on Signal Processing, 2018, 66, 4001-4012.	5.3	28
59	A nearly optimal amplify-and-forward relaying scheme for two-hop MIMO multi-relay networks. IEEE Communications Letters, 2010, 14, 229-231.	4.1	26
60	A Preamble-Aided Symbol and Frequency Synchronization Scheme for OFDM Systems. , 0, , .		25
61	A Nonlinear Acoustic Echo Canceller Using Sigmoid Transform in Conjunction With RLS Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1056-1060.	3.0	25
62	An opportunistic cooperation scheme and its BER analysis. IEEE Transactions on Wireless Communications, 2009, 8, 4492-4497.	9.2	25
63	Pitch Estimation Based on a Harmonic Sinusoidal Autocorrelation Model and a Time-Domain Matching Scheme. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 322-335.	3.2	25
64	Identification of motor neuron disease using wavelet domain features extracted from EMG signal. , 2013, , .		24
65	Joint estimation of states and parameters of Hodgkinâ€"Huxley neuronal model using Kalman filtering. Neurocomputing, 2014, 136, 289-299.	5.9	24
66	Beamforming for Secure Wireless Information and Power Transfer in Terrestrial Networks Coexisting With Satellite Networks. IEEE Signal Processing Letters, 2018, 25, 1166-1170.	3.6	24
67	3-D Mixed Far-Field and Near-Field Sources Localization With Cross Array. IEEE Transactions on Vehicular Technology, 2020, 69, 6833-6837.	6.3	24
68	Fast and efficient DOA estimation method for signals with known waveforms using nonuniform linear arrays. Signal Processing, 2015, 114, 265-276.	3.7	22
69	Direction-of-arrival estimation based on Toeplitz covariance matrix reconstruction. , 2016, , .		22
70	Performance Evaluation and Diversity Analysis of RIS-Assisted Communications Over Generalized Fading Channels in the Presence of Phase Noise. IEEE Open Journal of the Communications Society, 2022, 3, 593-607.	6.9	22
71	An analytical approach for obtaining a closed-form solution to the least-square design problem of 2-D zero-phase FIR filters. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 1994, 41, 796-807.	2.2	21
72	Feedforward symbol timing recovery technique using two samples per symbol. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 2490-2500.	0.1	21

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73	Mixed rectilinear sources localization under unknown mutual coupling. Journal of the Franklin Institute, 2019, 356, 2372-2394.	3.4	21
74	Signal denoising using neighbouring dual-tree complex wavelet coefficients. IET Signal Processing, 2012, 6, 143.	1.5	20
75	Rao test based cooperative spectrum sensing for cognitive radios in non-Gaussian noise. Signal Processing, 2014, 97, 183-194.	3.7	20
76	Single Far-Field or Near-Field Source Localization With Sparse or Uniform Cross Array. IEEE Transactions on Vehicular Technology, 2020, 69, 9135-9139.	6.3	20
77	Robust Beamforming for Enhancing User Fairness in Multibeam Satellite Systems With NOMA. IEEE Transactions on Vehicular Technology, 2022, 71, 1010-1014.	6.3	20
78	Compressed sensing for DOA estimation with fewer receivers than sensors. , 2011, , .		19
79	Speech Enhancement Based on Student <formula formulatype="inline"><tex Notation="TeX">t</tex></formula> Modeling of Teager Energy Operated Perceptual Wavelet Packet Coefficients and a Custom Thresholding Function. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 1800-1811.	5.8	19
80	Cluster based statistical feature extraction method for automatic bleeding detection in wireless capsule endoscopy video. Computers in Biology and Medicine, 2018, 94, 41-54.	7.0	19
81	A compressive sensing method for noise reduction of speech and audio signals. , 2011, , .		18
82	DCT domain feature extraction scheme based on motor unit action potential of EMG signal for neuromuscular disease classification. Healthcare Technology Letters, 2014, 1, 26-31.	3.3	18
83	Performance Analysis of MIMO MRC Systems With Feedback Delay and Channel Estimation Error. IEEE Transactions on Vehicular Technology, 2016, 65, 707-717.	6.3	18
84	A Deep Neural Network Based Kalman Filter for Time Domain Speech Enhancement. , 2019, , .		18
85	Bit Error Rate Analysis for Reconfigurable Intelligent Surfaces With Phase Errors. IEEE Communications Letters, 2021, 25, 2176-2180.	4.1	18
86	Linear Prediction Based Semi-Blind Channel Estimation for MIMO-OFDM System. , 2007, , .		17
87	A Signal Perturbation Free Whitening-Rotation-Based Semiblind Approach for MIMO Channel Estimation. IEEE Transactions on Signal Processing, 2009, 57, 3154-3166.	5.3	17
88	Spacial Extrapolation-Based Blind DOA Estimation Approach for Closely Spaced Sources. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 569-582.	4.7	17
89	Joint DOA Estimation and Source Signal Tracking With Kalman Filtering and Regularized QRD RLS Algorithm. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 46-50.	3.0	17
90	Speech enhancement using a DNN-augmented colored-noise Kalman filter. Speech Communication, 2020, 125, 142-151.	2.8	17

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91	Dynamic Base Station Clustering in User-Centric mmWave Networks: Performance Analysis and Optimization. IEEE Transactions on Communications, 2021, 69, 4847-4861.	7.8	17
92	A limited feedback precoding system with hierarchical codebook and linear receiver. IEEE Transactions on Wireless Communications, 2008, 7, 4843-4848.	9.2	16
93	Identification of autoregressive moving average systems based on noise compensation in the correlation domain. IET Signal Processing, 2011, 5, 292.	1.5	16
94	Improved Coarse Timing Estimation in OFDM Systems Using High-Order Statistics. IEEE Transactions on Communications, 2016, 64, 5239-5253.	7.8	16
95	Outage of NOMA-Based Hybrid Satellite-Terrestrial Multi-antenna DF Relay Networks. IEEE Wireless Communications Letters, 2021, 10, 1083-1087.	5.0	16
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97	On sparsity issues in compressive sensing based speech enhancement. , 2012, , .		15
98	Stochastic Geometry-Based Modeling and Analysis of Massive MIMO-Enabled Millimeter Wave Cellular Networks. IEEE Transactions on Communications, 2019, 67, 288-301.	7.8	15
99	Constrained Tensor Decomposition-Based Hybrid Beamforming for Mmwave Massive MIMO-OFDM Communication Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 5775-5788.	6.3	15
100	Adaptive Power Control for Asymmetric Two-Way Amplify-and-Forward Relaying With Individual Power Constraints. IEEE Transactions on Vehicular Technology, 2014, 63, 4315-4333.	6.3	14
101	Single channel speech enhancement using subband iterative Kalman filter. , 2016, , .		14
102	An Adaptive Approach for the Joint Antenna Selection and Beamforming Optimization. IEEE Access, 2019, 7, 99017-99030.	4.2	14
103	Outage Performance and Average Rate for Large-Scale Millimeter-Wave NOMA Networks. IEEE Transactions on Wireless Communications, 2020, 19, 1280-1291.	9.2	14
104	Artificial-Noise-Aided Energy-Efficient Secure Beamforming for Multi-Eavesdroppers in Cognitive Radio Networks. IEEE Systems Journal, 2020, 14, 3801-3812.	4.6	14
105	Achievable Rate Characterization of NOMA-Aided Cell-Free Massive MIMO With Imperfect Successive Interference Cancellation. IEEE Transactions on Communications, 2021, 69, 3054-3066.	7.8	14
106	Sleep Apnea Detection From Variational Mode Decomposed EEG Signal Using a Hybrid CNN-BiLSTM. IEEE Access, 2021, 9, 102355-102367.	4.2	14
107	Performance Analysis for Rate Splitting Uplink NOMA Transmission in High Throughput Satellite Systems. IEEE Wireless Communications Letters, 2022, 11, 816-820.	5.0	14
108	Sparse channel estimation of MIMO-OFDM systems with unconstrained smoothed l0-norm-regularized least squares compressed sensing. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	13

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109	Energy efficient optimization for physical layer security in cognitive relay networks. , 2016, , .		13
110	Outage Performance for Mixed FSO-RF Transmission in Satellite-Aerial- Terrestrial Networks. IEEE Photonics Technology Letters, 2020, 32, 1349-1352.	2.5	13
111	Stochastic Geometry Based Performance Characterization of SWIPT in Cell-Free Massive MIMO. IEEE Transactions on Vehicular Technology, 2020, 69, 13357-13370.	6.3	13
112	Outage Analysis of NOMA-Based Multiple-Antenna Hybrid Satellite-Terrestrial Relay Networks. IEEE Communications Letters, 2021, 25, 1109-1113.	4.1	13
113	Outage-Constrained Robust Multigroup Multicast Beamforming for Satellite-Based Internet of Things Coexisting With Terrestrial Networks. IEEE Internet of Things Journal, 2021, 8, 8159-8172.	8.7	13
114	Joint source-and-relay power allocation in multiple-input multiple-output amplify-and-forward relay systems: a non-convex problem and its solution. IET Signal Processing, 2011, 5, 612.	1.5	12
115	New conditions for uniformly recovering sparse signals via orthogonal matching pursuit. Signal Processing, 2015, 106, 106-113.	3.7	12
116	VMD-RiM: Rician Modeling of Temporal Feature Variation Extracted From Variational Mode Decomposed EEG Signal for Automatic Sleep Apnea Detection. IEEE Access, 2018, 6, 77440-77453.	4.2	12
117	Outage Constrained Robust Secure Beamforming in Cognitive Satellite-Aerial Networks. IEEE Communications Letters, 2021, 25, 2708-2712.	4.1	12
118	PACDNN: A phase-aware composite deep neural network for speech enhancement. Speech Communication, 2022, 136, 1-13.	2.8	12
119	On efficient gridless methods for 2-D DOA estimation with uniform and sparse L-shaped arrays. Signal Processing, 2022, 191, 108351.	3.7	12
120	A Novel Technique for the Identification of ARMA Systems Under Very Low Levels of SNR. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 1988-2001.	5.4	11
121	Minimum redundancy linear sparse subarrays for direction of arrival estimation without ambiguity. , 2011, , .		11
122	Performance Analysis of Dual-Hop MIMO AF Relaying Network With Multiple Interferences. IEEE Transactions on Vehicular Technology, 2017, 66, 1891-1897.	6.3	11
123	Speech dereverberation using weighted prediction error with correlated inter-frame speech components. Speech Communication, 2017, 87, 49-57.	2.8	11
124	Distributed-Relay Beamforming for Secrecy Energy Efficiency With Coordinated Eavesdroppers. IEEE Communications Letters, 2018, 22, 1054-1057.	4.1	11
125	Grayscale-Thermal Tracking via Inverse Sparse Representation-Based Collaborative Encoding. IEEE Transactions on Image Processing, 2020, 29, 3401-3415.	9.8	11
126	CapsCovNet: A Modified Capsule Network to Diagnose COVID-19 From Multimodal Medical Imaging. IEEE Transactions on Artificial Intelligence, 2021, 2, 608-617.	4.7	11

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127	Robust moving object detection using compressed sensing. IET Image Processing, 2015, 9, 811-819.	2.5	10
128	Rayleigh modeling of teager energy operated perceptual wavelet packet coefficients for enhancing noisy speech. Speech Communication, 2017, 86, 64-74.	2.8	10
129	Noncircularity-Based Localization for Mixed Near-Field and Far-Field Sources with Unknown Mutual Coupling. , 2018, , .		10
130	An $$\ell _p$$ â„" p -norm Based Method for Off-grid DOA Estimation. Circuits, Systems, and Signal Processing, 2019, 38, 904-917.	2.0	10
131	Rate and Energy Efficiency Improvements of Massive MIMO-Based Stochastic Cellular Networks With NOMA. IEEE Transactions on Green Communications and Networking, 2021, 5, 1467-1481.	5.5	10
132	Device-Free Activity Detection and Wireless Localization Based on CNN Using Channel State Information Measurement. IEEE Sensors Journal, 2021, 21, 24482-24494.	4.7	10
133	Weighted least-square design of FIR filters using a fast iterative matrix inversion algorithm. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1620-1628.	0.1	9
134	Design and Performance Analysis of Bayesian, Neymanâ€"Pearson, and Competitive Neymanâ€"Pearson Voice Activity Detectors. IEEE Transactions on Signal Processing, 2007, 55, 4341-4353.	5.3	9
135	Optimal Relay Precoding for Two-Hop AF Transmission and Performance Analysis over Rayleigh-Fading Channels. IEEE Transactions on Communications, 2011, 59, 3072-3079.	7.8	9
136	Single-channel acoustic echo cancellation in noise based on gradient-based adaptive filtering. Eurasip Journal on Audio, Speech, and Music Processing, 2014, 2014, .	2.1	9
137	Direction of arrival tracking for signals with known waveforms based on block least squares techniques. Journal of the Franklin Institute, 2017, 354, 4573-4594.	3.4	9
138	Gridless Two-Dimensional Doa Estimation With L-Shaped Array Based on the Cross-Covariance Matrix. , 2018, , .		9
139	Robust Beamforming for Enhancing Security in Multibeam Satellite Systems. IEEE Communications Letters, 2021, 25, 2161-2165.	4.1	9
140	Outage Analysis of Multi-Relay NOMA-Based Hybrid Satellite-Terrestrial Relay Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 6469-6487.	6.3	9
141	Energy efficient beamforming for secure communication in cognitive radio networks. , 2016, , .		8
142	Face recognition via fast dense correspondence. Multimedia Tools and Applications, 2018, 77, 10501-10519.	3.9	8
143	Energy Efficient Beamforming for Multi-User Transmission in Cognitive Radio Networks With Secrecy Constraints. IEEE Access, 2018, 6, 74485-74493.	4.2	8
144	A Spatial Filtering Based Gridless DOA Estimation Method for Coherent Sources. IEEE Access, 2018, 6, 56402-56410.	4.2	8

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145	Outage Performance of Integrated Satellite-Terrestrial Relay Networks with Opportunistic Scheduling. , 2019, , .		8
146	A gridless one-step method for mixed far-field and near-field sources localization. , 2020, 104, 102784.		8
147	Speech Enhancement With Phase Sensitive Mask Estimation Using a Novel Hybrid Neural Network. IEEE Open Journal of Signal Processing, 2021, 2, 136-150.	3.5	8
148	Robust Beamforming and Outage Performance of Uplink Multiuser Satellite-Aerial-Terrestrial Networks With Mixed RF-FSO Channels. IEEE Photonics Journal, 2021, 13, 1-8.	2.0	8
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150	Transmission scheme and performance analysis for decode-and-forward MIMO two-way relay systems. Science in China Series F: Information Sciences, 2009, 52, 2308-2316.	1.1	7
151	Noise Robust Formant Frequency Estimation Method Based on Spectral Model of Repeated Autocorrelation of Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1357-1370.	5.8	7
152	Speech reverberation suppression for time-varying environments using weighted prediction error method with time-varying autoregressive model. Speech Communication, 2019, 109, 1-14.	2.8	7
153	Sleep Apnea Event Detection from Sub-frame Based Feature Variation in EEG Signal Using Deep Convolutional Neural Network. , 2020, 2020, 5580-5583.		7
154	Constrained Channel Decomposition-Based Hybrid Beamforming for mmWave Massive MIMO Systems. IEEE Open Journal of the Communications Society, 2020, 1, 1707-1720.	6.9	7
155	Exploiting Cascaded Ensemble of Features for the Detection of Tuberculosis Using Chest Radiographs. IEEE Access, 2021, 9, 112388-112399.	4.2	7
156	Robust Secure Energy Efficient Beamforming for mmWave UAV Communications With Jittering. IEEE Communications Letters, 2022, 26, 1638-1642.	4.1	7
157	DOA estimation based on sparse representation via folding OMP. , 2013, , .		6
158	Sparse channel estimation of pulse-shaping multiple-input–multiple-output orthogonal frequency division multiplexing systems with an approximate gradient $l_2 ~ Sl_0$ reconstruction algorithm. IET Communications, 2014, 8, 1124-1131.	2.2	6
159	Transmit power allocation for asymmetric bi-directional relay networks using channel statistics. IET Communications, 2015, 9, 1649-1660.	2.2	6
160	Asymptotic Capacity Analysis of Large-Scale MIMO AF Relay Networks in a Composite Fading Environment. IEEE Transactions on Vehicular Technology, 2016, 65, 8895-8909.	6.3	6
161	Locating the Nodes From Incomplete Euclidean Distance Matrix Using Bayesian Learning. IEEE Access, 2019, 7, 37406-37413.	4.2	6
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163	Gridless Mixed Sources Localization Based on Low-Rank Matrix Reconstruction. IEEE Wireless Communications Letters, 2020, 9, 1748-1752.	5.0	6
164	A Deep Neural Network Based Harmonic Noise Model for Speech Enhancement. , 0, , .		6
165	Perturbation analysis of subspace-based semi-blind MIMO channel estimation approaches. , 2008, , .		5
166	Semi-blind channel estimation of MIMO-OFDM systems with pulse shaping. , 2008, , .		5
167	A Frequency-Domain Correlation Matrix Estimation Algorithm for MIMO-OFDM Channel Estimation. , 2008, , .		5
168	Transmit Power Minimization for Two-Way Amplify-and-Forward Relaying With Asymmetric Traffic Requirements. IEEE Transactions on Vehicular Technology, 2016, 65, 9687-9702.	6.3	5
169	Joint Doppler and Channel Estimation with Nested Arrays for Millimeter Wave Communications. , 2018, , .		5
170	Channel estimation and tracking with nested sampling for fast-moving users in millimeter-wave communication. , 2019, 94, 29-37.		5
171	Speech Enhancement Based on Dictionary Learning and Low-Rank Matrix Decomposition. IEEE Access, 2019, 7, 4936-4947.	4.2	5
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174	S-Convnet: A Shallow Convolutional Neural Network Architecture for Neuromuscular Activity Recognition Using Instantaneous High-Density Surface EMG Images. , 2020, 2020, 744-749.		5
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176	Uplink Outage Performance of NOMA-Based Hybrid Satellite-Terrestrial Relay Networks Over Generalized Inhomogeneous Fading Channels. IEEE Transactions on Communications, 2022, 70, 2417-2434.	7.8	5
177	Achieving Secrecy Energy Efficiency Fairness in UAV-Enabled Multi-User Communication Systems. IEEE Wireless Communications Letters, 2022, 11, 918-922.	5.0	5
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179	A closed-form semi-blind solution to MIMO-OFDM channel estimation. , 2008, , .		4
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