Zhi Ding

List of Publications by Year
in descending order

409 papers	9,330 citations	53794 45 h-index	69250 77 g-index
413 all docs	413 docs citations	413 times ranked	6186 citing authors

#	ARTICLE	IF	CITATIONS
1	Federated Learning via Over-the-Air Computation. IEEE Transactions on Wireless Communications, 2020, 19, 2022-2035.	9.2	550
2	Beam Division Multiple Access Transmission for Massive MIMO Communications. IEEE Transactions on Communications, 2015, 63, 2170-2184.	7.8	315
3	A novel ultra-wideband pulse design algorithm. IEEE Communications Letters, 2003, 7, 219-221.	4.1	271
4	Globally Optimal Linear Precoders for Finite Alphabet Signals Over Complex Vector Gaussian Channels. IEEE Transactions on Signal Processing, 2011, 59, 3301-3314.	5.3	254
5	Source Localization in Wireless Sensor Networks From Signal Time-of-Arrival Measurements. IEEE Transactions on Signal Processing, 2011, 59, 2887-2897.	5.3	217
6	Wireless communications in the era of big data. , 2015, 53, 190-199.		205
7	Linear Precoding for Finite-Alphabet Signaling Over MIMOME Wiretap Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 2599-2612.	6.3	162
8	Global convergence of fractionally spaced Godard (CMA) adaptive equalizers. IEEE Transactions on Signal Processing, 1996, 44, 818-826.	5.3	150
9	Single-user channel estimation and equalization. IEEE Signal Processing Magazine, 2000, 17, 17-28.	5.6	136
10	Enabling D2D Communications Through Neighbor Discovery in LTE Cellular Networks. IEEE Transactions on Signal Processing, 2014, 62, 5157-5170.	5.3	126
11	Target Tracking and Mobile Sensor Navigation in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2013, 12, 177-186.	5.8	125
12	Matrix outer-product decomposition method for blind multiple channel identification. IEEE Transactions on Signal Processing, 1997, 45, 3053-3061.	5.3	124
13	Graph-Based Resource Sharing in Vehicular Communication. IEEE Transactions on Wireless Communications, 2018, 17, 4579-4592.	9.2	120
14	Multiple Source Localization in Wireless Sensor Networks Based on Time of Arrival Measurement. IEEE Transactions on Signal Processing, 2014, 62, 1938-1949.	5.3	118
15	Optimal Transmission Strategies for Dynamic Spectrum Access in Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2009, 8, 1636-1648.	5.8	114
16	Blockchain Radio Access Network (B-RAN): Towards Decentralized Secure Radio Access Paradigm. IEEE Access, 2019, 7, 9714-9723.	4.2	109
17	Broadband DOA estimation using frequency invariant beamforming. IEEE Transactions on Signal Processing, 1998, 46, 1463-1469.	5.3	92
18	Iterative Algorithm Induced Deep-Unfolding Neural Networks: Precoding Design for Multiuser MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1394-1410.	9.2	91

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19	On Number of Almost Blank Subframes in Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5061-5073.	9.2	85
20	Engineering Radio Maps for Wireless Resource Management. IEEE Wireless Communications, 2019, 26, 133-141.	9.0	85
21	Exploiting Bi-Directional Channel Reciprocity in Deep Learning for Low Rate Massive MIMO CSI Feedback. IEEE Wireless Communications Letters, 2019, 8, 889-892.	5.0	83
22	Distance Estimation From Received Signal Strength Under Log-Normal Shadowing: Bias and Variance. IEEE Signal Processing Letters, 2009, 16, 216-218.	3.6	80
23	Fast network component analysis (FastNCA) for gene regulatory network reconstruction from microarray data. Bioinformatics, 2008, 24, 1349-1358.	4.1	77
24	High bandwidth on-chip silicon photonic interleaver. Optics Express, 2010, 18, 23079.	3.4	75
25	Mixed Mode Transmission and Resource Allocation for D2D Communication. IEEE Transactions on Wireless Communications, 2016, 15, 162-175.	9.2	75
26	A matrix-pencil approach to blind separation of colored nonstationary signals. IEEE Transactions on Signal Processing, 2000, 48, 900-907.	5.3	74
27	Distributed Power Control for Cognitive User Access based on Primary Link Control Feedback. , 2010, , .		73
28	Blind MIMO channel identification from second order statistics using rank deficient channel convolution matrix. IEEE Transactions on Signal Processing, 2003, 51, 535-544.	5.3	72
29	A Semidefinite Programming Approach to Source Localization in Wireless Sensor Networks. IEEE Signal Processing Letters, 2008, 15, 253-256.	3.6	72
30	Offset and Power Optimization for DCO-OFDM in Visible Light Communication Systems. IEEE Transactions on Signal Processing, 2016, 64, 349-363.	5.3	72
31	Decentralized Cognitive Radio Control Based on Inference from Primary Link Control Information. IEEE Journal on Selected Areas in Communications, 2011, 29, 394-406.	14.0	71
32	Spectral Phase-Encoded Time-Spreading (SPECTS) Optical Code-Division Multiple Access for Terabit Optical Access Networks. Journal of Lightwave Technology, 2004, 22, 2671-2679.	4.6	69
33	Symbol Mapping Diversity Design for Multiple Packet Transmissions. IEEE Transactions on Communications, 2005, 53, 810-817.	7.8	68
34	PAPR analysis for OFDM visible light communication. Optics Express, 2016, 24, 27457.	3.4	68
35	Resource Allocation and Inter-Cell Interference Management for Dual-Access Small Cells. IEEE Journal on Selected Areas in Communications, 2015, 33, 1082-1096.	14.0	67
36	Optimizing Unlicensed Spectrum Sharing for LTE-U and WiFi Network Coexistence. IEEE Journal on Selected Areas in Communications, 2016, 34, 2562-2574.	14.0	67

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37	On the (non)existence of undesirable equilibria of Godard blind equalizers. IEEE Transactions on Signal Processing, 1992, 40, 2425-2432.	5.3	63
38	Stationary points of a kurtosis maximization algorithm for blind signal separation and antenna beamforming. IEEE Transactions on Signal Processing, 2000, 48, 1587-1596.	5.3	63
39	Convergence analysis of finite length blind adaptive equalizers. IEEE Transactions on Signal Processing, 1995, 43, 2120-2129.	5.3	62
40	Direct blind MMSE channel equalization based on second-order statistics. IEEE Transactions on Signal Processing, 2000, 48, 1015-1022.	5.3	56
41	On Secrecy of Codebook-Based Transmission Beamforming under Receiver Limited Feedback. IEEE Transactions on Wireless Communications, 2011, 10, 1212-1223.	9.2	56
42	On Secrecy Rate Analysis of MIMO Wiretap Channels Driven by Finite-Alphabet Input. IEEE Transactions on Communications, 2012, 60, 3816-3825.	7.8	55
43	Single-channel blind equalization for GSM cellular systems. IEEE Journal on Selected Areas in Communications, 1998, 16, 1493-1505.	14.0	52
44	Adaptive Resource Allocation for Interference Management in Small Cell Networks. IEEE Transactions on Communications, 2015, 63, 2107-2125.	7.8	52
45	Constellation Design Enhancement for Color-Shift Keying Modulation of Quadrichromatic LEDs in Visible Light Communications. Journal of Lightwave Technology, 2017, 35, 3650-3663.	4.6	51
46	On channel identification based on second-order cyclic spectra. IEEE Transactions on Signal Processing, 1994, 42, 1260-1264.	5.3	50
47	Receiver Design for OTFS with a Fractionally Spaced Sampling Approach. IEEE Transactions on Wireless Communications, 2021, 20, 4072-4086.	9.2	50
48	Second-Order Statistical Approaches to Channel Shortening in Multicarrier Systems. IEEE Transactions on Signal Processing, 2004, 52, 3253-3264.	5.3	49
49	ARMA system identification based on second-order cyclostationarity. IEEE Transactions on Signal Processing, 1994, 42, 3483-3494.	5.3	48
50	Linear Precoding for MIMO Broadcast Channels With Finite-Alphabet Constraints. IEEE Transactions on Wireless Communications, 2012, , 1-15.	9.2	47
51	Linear Precoder Design for MIMO Interference Channels with Finite-Alphabet Signaling. IEEE Transactions on Communications, 2013, 61, 3766-3780.	7.8	47
52	Characteristics of band-limited channels unidentifiable from second-order cyclostationary statistics. IEEE Signal Processing Letters, 1996, 3, 150-152.	3.6	46
53	Stress wave communication in concrete: I. Characterization of a smart aggregate based concrete channel. Smart Materials and Structures, 2014, 23, 125030.	3.5	46
54	An exploratory study of stress wave communication in concrete structures. Smart Structures and Systems, 2015, 15, 135-150.	1.9	45

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55	A 320-Gb/s Capacity (32-User $\times$ 10 Gb/s) SPECTS O-CDMA Network Testbed With Enhanced Spectral Efficiency Through Forward Error Correction. Journal of Lightwave Technology, 2007, 25, 79-86.	4.6	44
56	Reduced Complexity Semidefinite Relaxation Algorithms for Source Localization Based on Time Difference of Arrival. IEEE Transactions on Mobile Computing, 2011, 10, 1276-1282.	5.8	44
57	Wireless Resource Management in LTE-U Driven Heterogeneous V2X Communication Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 7508-7522.	6.3	44
58	Admission control and resource allocation in a heterogeneous OFDMA wireless network. IEEE Transactions on Wireless Communications, 2009, 8, 4200-4210.	9.2	43
59	Demonstration of a fast-reconfigurable silicon CMOS optical lattice filter. Optics Express, 2011, 19, 13245.	3.4	43
60	Robust {MISO Transmit} Optimization under Outage-Based QoS Constraints in Two-Tier Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2013, 12, 1883-1897.	9.2	43
61	A fast linear programming algorithm for blind equalization. IEEE Transactions on Communications, 2000, 48, 1432-1436.	7.8	42
62	A two-stage algorithm for MIMO blind deconvolution of nonstationary colored signals. IEEE Transactions on Signal Processing, 2000, 48, 1187-1192.	5.3	42
63	Embedding LTE-U within Wi-Fi Bands for Spectrum Efficiency Improvement. IEEE Network, 2017, 31, 72-79.	6.9	42
64	A Survey on MIMO Transmission With Finite Input Signals: Technical Challenges, Advances, and Future Trends. Proceedings of the IEEE, 2018, 106, 1779-1833.	21.3	42
65	High Performance Non-Binary Quasi-Cyclic LDPC Codes on Euclidean Geometries LDPC Codes on Euclidean Geometries. IEEE Transactions on Communications, 2009, 57, 1298-1311.	7.8	41
66	Introducing Hypergraph Signal Processing: Theoretical Foundation and Practical Applications. IEEE Internet of Things Journal, 2020, 7, 639-660.	8.7	41
67	Blind Over-the-Air Computation and Data Fusion via Provable Wirtinger Flow. IEEE Transactions on Signal Processing, 2020, 68, 1136-1151.	5.3	41
68	BDMA in Multicell Massive MIMO Communications: Power Allocation Algorithms. IEEE Transactions on Signal Processing, 2017, 65, 2962-2974.	5.3	40
69	Cooperative MIMO precoding for D2D underlay in cellular networks. , 2013, , .		39
70	An Efficient Deep Learning Framework for Low Rate Massive MIMO CSI Reporting. IEEE Transactions on Communications, 2020, 68, 4761-4772.	7.8	39
71	Federated Learning Based on Over-the-Air Computation. , 2019, , .		38
72	Target Localization With Jammer Removal Using Frequency Diverse Array. IEEE Transactions on Vehicular Technology, 2020, 69, 11685-11696.	6.3	38

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73	On convergence analysis of fractionally spaced adaptive blind equalizers. IEEE Transactions on Signal Processing, 1997, 45, 650-657.	5.3	37
74	On the Secrecy Rate of Multi-Antenna Wiretap Channel under Finite-Alphabet Input. IEEE Communications Letters, 2011, 15, 527-529.	4.1	37
75	Multipath channel identification based on partial system information. IEEE Transactions on Signal Processing, 1997, 45, 235-240.	5.3	36
76	Blind MIMO system identification based on cumulant subspace decomposition. IEEE Transactions on Signal Processing, 2003, 51, 1457-1468.	5.3	36
77	Progressive linear precoder optimization for MIMO packet retransmissions. IEEE Journal on Selected Areas in Communications, 2006, 24, 448-456.	14.0	36
78	The quadratic three-dimensional assignment problem: Exact and approximate solution methods. European Journal of Operational Research, 2008, 184, 416-428.	5.7	35
79	Wavelet transform processing for cellular traffic prediction in machine learning networks. , 2015, , .		35
80	Energy Management and Power Allocation for Underwater Acoustic Sensor Network. IEEE Sensors Journal, 2017, 17, 6451-6462.	4.7	34
81	Robust target identification in white Gaussian noise for ultra wide-band radar systems. IEEE Transactions on Antennas and Propagation, 1998, 46, 1817-1823.	5.1	33
82	Quasi-Cyclic LDPC Codes on Cyclic Subgroups of Finite Fields. IEEE Transactions on Communications, 2011, 59, 2330-2336.	7.8	32
83	Fully Reconfigurable Silicon Photonic Lattice Filters With Four Cascaded Unit Cells. IEEE Photonics Technology Letters, 2011, 23, 42-44.	2.5	31
84	Adaptive small cell access of licensed and unlicensed bands. , 2013, , .		31
85	Efficient OFDMA for LiFi Downlink. Journal of Lightwave Technology, 2018, 36, 1928-1943.	4.6	31
86	Blockchain Radio Access Network Beyond 5G. IEEE Wireless Communications, 2020, 27, 160-168.	9.0	31
87	OTFS Signaling for Uplink NOMA of Heterogeneous Mobility Users. IEEE Transactions on Communications, 2021, 69, 3147-3161.	7.8	31
88	Joint Deep Reinforcement Learning and Unfolding: Beam Selection and Precoding for mmWave Multiuser MIMO With Lens Arrays. IEEE Journal on Selected Areas in Communications, 2021, 39, 2289-2304.	14.0	31
89	Local convergence of the Sato blind equalizer and generalizations under practical constraints. IEEE Transactions on Information Theory, 1993, 39, 129-144.	2.4	30
90	Distributed Power Control in a Two-Tier Heterogeneous Network. IEEE Transactions on Wireless Communications, 2015, 14, 6509-6523.	9.2	30

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91	CMOS Compatible Reconfigurable Silicon Photonic Lattice Filters Using Cascaded Unit Cells for RF-Photonic Processing. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 359-368.	2.9	29
92	FeetBeat: A Flexible Iontronic Sensing Wearable Detects Pedal Pulses and Muscular Activities. IEEE Transactions on Biomedical Engineering, 2019, 66, 3072-3079.	4.2	29
93	Non-Intrusive Cognitive Radio Networks Based on Smart Antenna Technology. , 2007, , .		28
94	Short Paper: On Optimal Sensing and Transmission Strategies for Dynamic Spectrum Access. , 2008, , .		27
95	Practical Modeling and Analysis of Blockchain Radio Access Network. IEEE Transactions on Communications, 2020, , 1-1.	7.8	27
96	Energy-Efficient Processing and Robust Wireless Cooperative Transmission for Edge Inference. IEEE Internet of Things Journal, 2020, 7, 9456-9470.	8.7	27
97	Length- and cost-dependent local minima of unconstrained blind channel equalizers. IEEE Transactions on Signal Processing, 1996, 44, 2726-2735.	5.3	26
98	Exploiting Multi-Antenna Non-Reciprocal Channels for Shared Secret Key Generation. IEEE Transactions on Information Forensics and Security, 2016, 11, 2693-2705.	6.9	26
99	Data Shuffling in Wireless Distributed Computing via Low-Rank Optimization. IEEE Transactions on Signal Processing, 2019, 67, 3087-3099.	5.3	26
100	Blind Channel Identifiability for Generic Linear Space-Time Block Codes. IEEE Transactions on Signal Processing, 2007, 55, 202-217.	5.3	25
101	A Linear Programming Based Tone Injection Algorithm for PAPR Reduction of OFDM and Linearly Precoded Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 1937-1945.	5.4	25
102	Stress wave communication in concrete: II. Evaluation of low voltage concrete stress wave communications utilizing spectrally efficient modulation schemes with PZT transducers. Smart Materials and Structures, 2014, 23, 125031.	3.5	25
103	Enhanced LAA for Unlicensed LTE Deployment Based on TXOP Contention. IEEE Transactions on Communications, 2019, 67, 417-429.	7.8	25
104	Optical Filter Designs for Multi-Color Visible Light Communication. IEEE Transactions on Communications, 2019, 67, 2173-2187.	7.8	25
105	Beam Domain Massive MIMO for Optical Wireless Communications With Transmit Lens. IEEE Transactions on Communications, 2019, 67, 2188-2202.	7.8	25
106	Hash Access: Trustworthy Grant-Free IoT Access Enabled by Blockchain Radio Access Networks. IEEE Network, 2020, 34, 54-61.	6.9	25
107	Joint transmitter-receiver optimization for partial response channels based on nonmaximally decimated filterbank precoding technique. IEEE Transactions on Signal Processing, 1999, 47, 2407-2414.	5.3	24
108	A Variable-Rate Spread-Spectrum System for Underwater Acoustic Communications. IEEE Journal of Oceanic Engineering, 2009, 34, 624-633.	3.8	24

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109	Cooperative Self-Navigation in a Mixed LOS and NLOS Environment. IEEE Transactions on Mobile Computing, 2014, 13, 350-363.	5.8	23
110	Power Control and Resource Allocation for Outage Balancing in Femtocell Networks. IEEE Transactions on Wireless Communications, 2015, 14, 2043-2057.	9.2	23
111	Joint Detection and Decoding of Polar Coded 5G Control Channels. IEEE Transactions on Wireless Communications, 2020, 19, 2066-2078.	9.2	23
112	Graph-Based Radio Resource Management for Vehicular Networks. , 2018, , .		22
113	Prototype Design and Test of Blockchain Radio Access Network. , 2019, , .		22
114	Joint Detection and Decoding in LDPC-Based Space-Time Coded MIMO-OFDM Systems via Linear Programming. IEEE Transactions on Signal Processing, 2015, 63, 3411-3424.	5.3	21
115	Biased Multi-LED Beamforming for Multicarrier Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 106-120.	14.0	21
116	A Novel Waveform Optimization Scheme for Piezoelectric Sensors Wire-Free Charging in the Tightly Insulated Environment. IEEE Internet of Things Journal, 2018, 5, 1936-1946.	8.7	21
117	A matrix-pencil approach to blind separation of non-white sources in white noise. , 0, , .		20
118	Blind source separation of signals with known alphabets using -approximation algorithms. IEEE Transactions on Signal Processing, 2003, 51, 1-10.	5.3	20
119	Hypergraph Spectral Analysis and Processing in 3D Point Cloud. IEEE Transactions on Image Processing, 2021, 30, 1193-1206.	9.8	19
120	Performance analysis of an automated E-pulse target discrimination scheme. IEEE Transactions on Antennas and Propagation, 2000, 48, 619-628.	5.1	18
121	Channel identifiability under orthogonal space-time coded modulations without training. IEEE Transactions on Wireless Communications, 2006, 5, 1003-1013.	9.2	18
122	A Quadratic Programming Approach to Blind Equalization and Signal Separation. IEEE Transactions on Signal Processing, 2009, 57, 2232-2244.	5.3	18
123	Feedback-based access and power control for distributed multiuser cognitive networks. , 2009, , .		18
124	Cooperative Multi-Cell MIMO Downlink Precoding With Finite-Alphabet Inputs. IEEE Transactions on Communications, 2015, 63, 766-779.	7.8	18
125	A cumulant matrix subspace algorithm for blind single FIR channel identification. IEEE Transactions on Signal Processing, 2001, 49, 325-333.	5.3	17
126	A Markovian Model-Driven Deep Learning Framework for Massive MIMO CSI Feedback. IEEE Transactions on Wireless Communications, 2022, 21, 1214-1228.	9.2	17

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127	Performance analysis of a GLRT automated target discrimination scheme. IEEE Transactions on Antennas and Propagation, 2001, 49, 1827-1835.	5.1	16
128	New MIMO ARQ protocols and joint detection via sphere decoding. IEEE Transactions on Signal Processing, 2006, 54, 473-482.	5.3	16
129	QAM constellation classification based on statistical sampling for linear distortive channels. IEEE Transactions on Signal Processing, 2006, 54, 1575-1586.	5.3	16
130	QoE Driven VR 360Â° Video Massive MIMO Transmission. IEEE Transactions on Wireless Communications, 2022, 21, 18-33.	9.2	16
131	Edge decision assisted decorrelators for asynchronous CDMA channels. IEEE Transactions on Communications, 1999, 47, 438-445.	7.8	15
132	Column-anchored zeroforcing blind equalization for multiuser wireless FIR channels. IEEE Journal on Selected Areas in Communications, 1999, 17, 411-423.	14.0	15
133	Iterative Transceiver Design for MIMO ARQ Retransmissions With Decision Feedback Detection. IEEE Transactions on Signal Processing, 2007, 55, 3405-3416.	5.3	15
134	Sequential Linear MIMO Precoder Optimization for Hybrid ARQ Retransmission of QAM Signals. IEEE Communications Letters, 2011, 15, 913-915.	4.1	15
135	Distributed Control of Multiple Cognitive Radio Overlay for Primary Queue Stability. IEEE Transactions on Wireless Communications, 2013, 12, 112-122.	9.2	15
136	Blind decision feedback equalization of time-varying channels with DPSK inputs. IEEE Transactions on Signal Processing, 2001, 49, 1533-1542.	5.3	14
137	Zero-forcing blind equalization based on subspace estimation for multiuser systems. IEEE Transactions on Communications, 2001, 49, 262-271.	7.8	14
138	On blind channel identifiability under space-time coded transmission. , 0, , .		14
139	A Hybrid ARQ Protocol Using Integrated Channel Equalization. IEEE Transactions on Communications, 2005, 53, 1996-2001.	7.8	14
140	A Bayesian Algorithm for Joint Symbol Timing Synchronization and Channel Estimation in Two-Way Relay Networks. IEEE Transactions on Communications, 2013, 61, 4271-4283.	7.8	14
141	Diversity Integration in Hybrid-ARQ With Chase Combining Under Partial CSI. IEEE Transactions on Communications, 2016, 64, 2647-2659.	7.8	14
142	Femtocell Power Control for Interference Management Based on Macrolayer Feedback. IEEE Transactions on Vehicular Technology, 2016, 65, 5222-5236.	6.3	14
143	Resource Management in LTE-U Systems: Past, Present, and Future. IEEE Open Journal of Vehicular Technology, 2020, 1, 1-17.	4.9	14
144	Constrained Capacity of Linear Precoded ARQ in MIMO Wireless Systems. , 0, , .		13

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145	Performance analysis of a spectrally compliant ultra-wideband pulse design. IEEE Transactions on Wireless Communications, 2005, 4, 2172-2181.	9.2	13
146	Linear precoder optimization for ARQ packet retransmissions in centralized multiuser MIMO uplinks. IEEE Transactions on Wireless Communications, 2008, 7, 736-745.	9.2	13
147	Dynamic MIMO Precoding for Femtocell Interference Mitigation. IEEE Transactions on Communications, 2014, 62, 648-666.	7.8	13
148	FEC Code Anchored Robust Design of Massive MIMO Receivers. IEEE Transactions on Wireless Communications, 2016, 15, 8223-8235.	9.2	13
149	Joint channel estimation and detection using Markov chain Monte Carlo method over sparse underwater acoustic channels. IET Communications, 2017, 11, 1789-1796.	2.2	13
150	Quannet: Joint Image Compression and Classification Over Channels with Limited Bandwidth. , 2019, , .		13
151	Hypergraph Spectral Clustering for Point Cloud Segmentation. IEEE Signal Processing Letters, 2020, 27, 1655-1659.	3.6	13
152	Robust blind multiuser detection against CDMA signature mismatch. , 0, , .		12
153	A Two-Stage Iterative Decoding of LDPC Codes for Lowering Error Floors. , 2008, , .		12
154	Bandwidth Efficient Variable Rate HARQ Under Orthogonal Space-Time Block Codes. IEEE Transactions on Signal Processing, 2014, 62, 3360-3370.	5.3	12
155	On Forward Channel Estimation for MIMO Precoding in Cooperative Relay Wireless Transmission Systems. IEEE Transactions on Signal Processing, 2014, 62, 1265-1278.	5.3	12
156	Generalized Low-Rank Optimization for Topological Cooperation in Ultra-Dense Networks. IEEE Transactions on Wireless Communications, 2019, 18, 2539-2552.	9.2	12
157	Overcoming the Channel Estimation Barrier in Massive MIMO Communication via Deep Learning. IEEE Wireless Communications, 2020, 27, 104-111.	9.0	12
158	An algebraic principle for blind separation of white non-Gaussian sources. Signal Processing, 1999, 76, 105-115.	3.7	11
159	Security Enhancement of SPECTS O-CDMA Through Concealment Against Upstream DPSK Eavesdropping. Journal of Lightwave Technology, 2007, 25, 2799-2806.	4.6	11
160	Best-Effort Interference Alignment in OFDM Systems with Finite SNR. , 2011, , .		11
161	Macrocell-Queue-Stabilization-Based Power Control of Femtocell Networks. IEEE Transactions on Wireless Communications, 2014, 13, 5223-5236.	9.2	11
162	Satellite-Aided Consensus Protocol for Scalable Blockchains. Sensors, 2020, 20, 5616.	3.8	11

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163	Channel Estimation and Equalization Techniques in Downsampled ARQ Systems. IEEE Transactions on Signal Processing, 2007, 55, 2251-2262.	5.3	10
164	Limited Feedback Multiuser Scheduling of Spatially Correlated Broadcast Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 4406-4418.	6.3	10
165	Noniterative Convex Optimization Methods for Network Component Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1472-1481.	3.0	10
166	Subcarrier Nulling Algorithms for Channel Shortening in Uplink OFDMA Systems. IEEE Transactions on Signal Processing, 2012, 60, 2374-2385.	5.3	10
167	Spherical Normalization for Learned Compressive Feedback in Massive MIMO CSI Acquisition. , 2020, , .		10
168	Robust Precoding for 3D Massive MIMO Configuration With Matrix Manifold Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 3423-3437.	9.2	10
169	Zeros of sampled data systems represented by FIR models. Automatica, 2000, 36, 121-123.	5.0	9
170	Symbol mapping diversity design for packet retransmissions through fading channels. , 0, , .		9
171	Symbol mapping diversity in iterative decoding/demodulation of ARQ systems. , 0, , .		9
172	Robust blind multiuser detection against signature waveform mismatch based on second-order cone programming. IEEE Transactions on Wireless Communications, 2005, 4, 1285-1291.	9.2	9
173	Nonuniform Spectral Phase Encoding in Optical CDMA Networks. IEEE Photonics Technology Letters, 2006, 18, 2505-2507.	2.5	9
174	Perfect Blind-Channel Shortening for Multicarrier Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 851-860.	5.4	9
175	Optimum Power Allocation against Information Leakage in Wireless Network. , 2009, , .		9
176	Robust receiver design based on FEC code diversity in pilot-contaminated multi-user massive MIMO systems. , 2016, , .		9
177	Cooperative coexistence and resource allocation for V2X communications in LTE-unlicensed. , 2018, , .		9
178	A Joint Detection and Decoding Receiver Design for Polar Coded MIMO Wireless Transmissions. , 2018, , .		9
179	Enhanced Receiver Based on FEC Code Constraints for Uplink NOMA With Imperfect CSI. IEEE Transactions on Wireless Communications, 2019, 18, 4790-4802.	9.2	9
180	Semi-blind channel identification for individual data bursts in GSM wireless systems. Signal Processing, 2000, 80, 2017-2031.	3.7	8

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181	Precoded integrated equalization for packet retransmissions. , 0, , .		8
182	Integrated iterative equalization for ARQ systems. , 2002, , .		8
183	Security issues on spectral-phase-encoded optical CDMA with phase-masking scheme. , 2006, , .		8
184	Progressive Linear Precoder Optimization for MIMO Packet Retransmissions Exploiting Channel Covariance Information. IEEE Transactions on Communications, 2008, 56, 818-827.	7.8	8
185	Joint ARQ Receiver Design for Bandwidth Efficient MIMO Systems. , 2008, , .		8
186	Optimum sensor placement for source monitoring under log-normal shadowing in three dimensions. , 2009, , .		8
187	Burst Decoding of Cyclic Codes Based on Circulant Parity-Check Matrices. IEEE Transactions on Information Theory, 2010, 56, 1038-1047.	2.4	8
188	Wireless source localization based on time of arrival measurement. , 2010, , .		8
189	Optimum sensor placement for localization in three dimensional under log normal shadowing. , 2012, , .		8
190	Resource Allocation in Two-Tier Heterogeneous Networks through Enhanced Shadow Chasing. IEEE Transactions on Wireless Communications, 2013, 12, 6439-6453.	9.2	8
191	On Efficient Packet-Switched Wireless Networking: A Markovian Approach to Trans-Layer Design and Optimization of ROHC. IEEE Transactions on Wireless Communications, 2017, 16, 4232-4245.	9.2	8
192	An Efficient Hypergraph Approach to Robust Point Cloud Resampling. IEEE Transactions on Image Processing, 2022, 31, 1924-1937.	9.8	8
193	Equalization and interference cancellation in linear multiuser systems based on second-order statistics. IEEE Transactions on Signal Processing, 2001, 49, 2042-2049.	5.3	7
194	Integrated iterative equalization for ARQ systems. , 0, , .		7
195	Fractional spaced dual channel estimation based on decimated feedback. , 0, , .		7
196	Performance analysis for optical CDMA networks with random access schemes. , 0, , .		7
197	LDPC coding schemes for error control in a multicast network. , 2008, , .		7
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