Yi Gong

List of Publications by Year
in descending order

154 papers	3,154 citations	218381 26 h-index	189595 50 g-index
154 all docs	154 docs citations	154 times ranked	2625 citing authors

#	Article	IF	Citations
1	Computation Offloading and Resource Allocation For Cloud Assisted Mobile Edge Computing in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7944-7956.	3.9	544
2	Collaborative Energy and Information Transfer in Green Wireless Sensor Networks for Smart Cities. IEEE Transactions on Industrial Informatics, 2018, 14, 1585-1593.	7.2	126
3	Spectrum Analysis and Convolutional Neural Network for Automatic Modulation Recognition. IEEE Wireless Communications Letters, 2019, 8, 929-932.	3.2	125
4	An Energy-Ratio-Based Approach for Detecting Pilot Spoofing Attack in Multiple-Antenna Systems. IEEE Transactions on Information Forensics and Security, 2015, 10, 932-940.	4.5	119
5	Multiband Cooperation for 5G HetNets: A Promising Network Paradigm. IEEE Vehicular Technology Magazine, 2019, 14, 85-93.	2.8	107
6	SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. IEEE Internet of Things Journal, 2021, 8, 15070-15080.	5.5	82
7	An efficient space-frequency coded OFDM system for broadband wireless communications. IEEE Transactions on Communications, 2003, 51, 2019-2029.	4.9	78
8	Cooperative OFDM Relaying for Opportunistic Spectrum Sharing: Protocol Design and Resource Allocation. IEEE Transactions on Wireless Communications, 2012, 11, 2126-2135.	6.1	77
9	Resource and Trajectory Optimization for Secure Communications in Dual Unmanned Aerial Vehicle Mobile Edge Computing Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2704-2713.	7.2	75
10	Wirelessly Powered Data Aggregation for IoT via Over-the-Air Function Computation: Beamforming and Power Control. IEEE Transactions on Wireless Communications, 2019, 18, 3437-3452.	6.1	73
11	Secure Transmission Against Pilot Spoofing Attack: A Two-Way Training-Based Scheme. IEEE Transactions on Information Forensics and Security, 2016, 11, 1017-1026.	4.5	68
12	A Dual-Link Soft Handover Scheme for C/U Plane Split Network in High-Speed Railway. IEEE Access, 2018, 6, 12473-12482.	2.6	67
13	Performance evaluation and analysis of space-time coding in unequalized multipath fading links. IEEE Transactions on Communications, 2000, 48, 1778-1782.	4.9	60
14	Low complexity channel estimation for space~time coded wideband ofdm systems. IEEE Transactions on Wireless Communications, 2003, 2, 876-882.	6.1	57
15	Concatenated space-time block coding with trellis coded modulation in fading channels. IEEE Transactions on Wireless Communications, 2002, 1, 580-590.	6.1	55
16	Space-frequency-time coded OFDM for broadband wireless communications. , 0, , .		53
17	Automatic Modulation Recognition Using Deep Learning Architectures. , 2018, , .		53
18	Incentive Mechanism Based Cooperative Spectrum Sharing for OFDM Cognitive IoT Network. IEEE Transactions on Network Science and Engineering, 2020, 7, 662-672.	4.1	53

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19	Wirelessly Powered Crowd Sensing: Joint Power Transfer, Sensing, Compression, and Transmission. IEEE Journal on Selected Areas in Communications, 2019, 37, 391-406.	9.7	49
20	Peak-to-Average Power Ratio Reduction of FBMC/OQAM Signal Using a Joint Optimization Scheme. IEEE Access, 2017, 5, 15810-15819.	2.6	47
21	On the diversity gain in cooperative relaying channels with imperfect CSIT. IEEE Transactions on Communications, 2010, 58, 1273-1279.	4.9	46
22	Simultaneous Wireless Information and Power Transfer Based on Joint Subcarrier and Power Allocation in OFDM Systems. IEEE Access, 2017, 5, 2763-2770.	2.6	46
23	Deep Neural Network for Estimation of Direction of Arrival With Antenna Array. IEEE Access, 2020, 8, 140688-140698.	2.6	44
24	On the Analog Self-Interference Cancellation for Full-Duplex Communications With Imperfect Channel State Information. IEEE Access, 2017, 5, 9277-9290.	2.6	42
25	Enhancing Downlink Transmission in MIMO HetNet With Wireless Backhaul. IEEE Transactions on Vehicular Technology, 2019, 68, 6817-6832.	3.9	40
26	Optimal pilot design in massive MIMO systems based on channel estimation. IET Communications, 2017, 11, 975-984.	1.5	39
27	Computation offloading and resource allocation for mobile edge computing with multiple access points. IET Communications, 2019, 13, 2668-2677.	1.5	39
28	Adaptive power allocation for regenerative relaying with multiple antennas at the destination. IEEE Transactions on Wireless Communications, 2009, 8, 2789-2794.	6.1	37
29	Study of Connectivity Probability of Vehicle-to-Vehicle and Vehicle-to-Infrastructure Communication Systems. , 2016, , .		30
30	Learning of Time-Frequency Attention Mechanism for Automatic Modulation Recognition. IEEE Wireless Communications Letters, 2022, 11, 707-711.	3.2	28
31	On the Error Probability of Orthogonal Space-Time Block Codes Over Keyhole MIMO Channels. IEEE Transactions on Wireless Communications, 2007, 6, 3402-3409.	6.1	27
32	Adaptive Power Allocation for Multihop Regenerative Relaying With Limited Feedback. IEEE Transactions on Vehicular Technology, 2009, 58, 3862-3867.	3.9	23
33	Pilot contamination reduction in TDDâ€based massive MIMO systems. IET Communications, 2019, 13, 1425-1432.	1.5	23
34	Cognitive Beamforming for Multiple Secondary Data Streams With Individual SNR Constraints. IEEE Transactions on Signal Processing, 2013, 61, 4189-4198.	3.2	22
35	Achieving Secrecy of MISO Fading Wiretap Channels via Jamming and Precoding With Imperfect Channel State Information. IEEE Wireless Communications Letters, 2014, 3, 357-360.	3.2	22
36	Carrier sense multiple access with collision avoidanceâ€aware connectivity quality of downlink broadcast in vehicular relay networks. IET Microwaves, Antennas and Propagation, 2019, 13, 1096-1103.	0.7	20

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37	Joint Resource Allocation for Wireless Energy Harvesting Enabled Cognitive Sensor Networks. IEEE Access, 2018, 6, 22480-22488.	2.6	19
38	Low rank channel estimation for space-time coded wideband OFDM systems. , 0, , .		18
39	Cross-Channel Estimation Using Supervised Probing and Sensing in Cognitive Radio Networks. , 2011, , .		18
40	On Design of Opportunistic Spectrum Access in the Presence of Reactive Primary Users. IEEE Transactions on Communications, 2013, 61, 2678-2691.	4.9	18
41	Performance Analysis of M-PSK/ M-QAM Modulated Orthogonal Space–Time Block Codes in Keyhole Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 1036-1043.	3.9	17
42	Trajectory and Resource Optimization in OFDM-Based UAV-Powered IoT Network. IEEE Transactions on Green Communications and Networking, 2021, 5, 1259-1270.	3.5	17
43	Intelligent-Reflecting-Surface-Aided Mobile Edge Computing With Binary Offloading: Energy Minimization for IoT Devices. IEEE Internet of Things Journal, 2022, 9, 12973-12983.	5.5	16
44	Receiver design for multicarrier CDMA using frequency-domain oversampling. IEEE Transactions on Wireless Communications, 2009, 8, 2236-2241.	6.1	15
45	Fractionally Spaced Frequency-Domain MMSE Receiver for OFDM Systems. IEEE Transactions on Vehicular Technology, 2010, 59, 4400-4407.	3.9	15
46	Energy Efficiency Optimization for OFDM Based 5G Wireless Networks With Simultaneous Wireless Information and Power Transfer. IEEE Access, 2018, 6, 75937-75946.	2.6	15
47	A Spectrum Trading Scheme for Licensed User Incentives. IEEE Transactions on Communications, 2015, 63, 4026-4036.	4.9	14
48	Joint Scheduling and Resource Allocation for Efficiency-Oriented Distributed Learning Over Vehicle Platooning Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 10894-10908.	3.9	13
49	Analysis and design of trellis coded modulation with transmit diversity for wireless communications. , 0, , .		12
50	Energy detection of narrowband signals in cognitive radio systems. , 2010, , .		12
51	Study of connectivity probability based on cluster in vehicular Ad Hoc networks. , 2016, , .		12
52	A Seamless Handover Scheme With Assisted eNB for 5G C/U Plane Split Heterogeneous Network. IEEE Access, 2019, 7, 164256-164264.	2.6	12
53	Deploying Federated Learning in Large-Scale Cellular Networks: Spatial Convergence Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 1542-1556.	6.1	12
54	High-rate complex orthogonal space-time block codes for high number of transmit antennas. , 2004, , .		11

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55	On the Diversity Gain in Dynamic Decode-and-Forward Channels with Imperfect CSIT. IEEE Transactions on Communications, 2011, 59, 59-63.	4.9	11
56	Covert digital communication systems based on joint normal distribution. IET Communications, 2017, 11, 1282-1290.	1.5	11
57	Cooperative Computation Offloading and Resource Allocation for Mobile Edge Computing. , 2019, , .		11
58	Comparing Channel Emulation Algorithms by Using Plane Waves and Spherical Vector Waves in Multiprobe Anechoic Chamber Setups. IEEE Transactions on Antennas and Propagation, 2019, 67, 4091-4103.	3.1	11
59	Power optimisation in UAVâ€assisted wireless powered cooperative mobile edge computing systems. IET Communications, 2020, 14, 2516-2523.	1.5	11
60	Asynchronous Classification of High-Order QAMs. , 2008, , .		10
61	Cognitive Beamforming for Throughput Maximization With Statistical Cross Channel State Information. IEEE Communications Letters, 2014, 18, 2031-2034.	2.5	10
62	Secrecy Rate Maximization for Untrusted Relay Networks With Nonorthogonal Cooperative Transmission Protocols. IEEE Transactions on Vehicular Technology, 2018, 67, 6325-6339.	3.9	10
63	OFDM Based SWIPT for Two-Way AF Relaying Network. IEEE Access, 2018, 6, 73223-73231.	2.6	10
64	Resource and trajectory optimization in UAV-powered wireless communication system. Science China Information Sciences, 2021, 64, 1.	2.7	10
65	Impact of CSIT on the tradeoff of diversity and spatial multiplexing in MIMO channels. , 2009, , .		9
66	Joint Navigation and Synchronization in LEO Dual-Satellite Geolocation Systems. , 2017, , .		9
67	Reinforcement Learning Based Task Offloading and Take-Back in Vehicle Platoon Networks. , 2019, , .		9
68	Adaptive Video Streaming for Massive MIMO Networks via Approximate MDP and Reinforcement Learning. IEEE Transactions on Wireless Communications, 2020, 19, 5716-5731.	6.1	9
69	Power Control and Channel Training for MIMO Channels: A DMT Perspective. IEEE Transactions on Wireless Communications, 2011, 10, 2080-2089.	6.1	8
70	Cooperative signal classification using spectral correlation function in cognitive radio networks. , 2016, , .		8
71	Structure and performance analysis of an S Î± Sâ€based digital modulation system. IET Communications, 2016, 10, 1329-1339.	1.5	8
72	Comparison of Plane Wave and Spherical Vector Wave Channel Modeling for Characterizing Non-Specular Rough-Surface Wave Scattering. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1847-1851.	2.4	8

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73	Adaptive power allocation for multi-hop OFDM relaying systems. , 2007, , .		7
74	On Spatial Capacity of Wireless Ad Hoc Networks with Threshold Based Scheduling. IEEE Transactions on Wireless Communications, 2014, 13, 6915-6927.	6.1	7
75	Emulating UAV Air-to-Ground Radio Channel in Multi-Probe Anechoic Chamber. , 2018, , .		7
76	Toeplitz Matrix Completion for Direction Finding Using a Modified Nested Linear Array. , 2019, , .		7
77	Cluster-Based Joint Resource Allocation with Successive Interference Cancellation for Ultra-Dense Networks. Mobile Networks and Applications, 2021, 26, 1233-1242.	2.2	7
78	Radar Emitter Signal Detection with Convolutional Neural Network. , 2019, , .		7
79	Joint Optimization of File Placement and Delivery in Cache-Assisted Wireless Networks With Limited Lifetime and Cache Space. IEEE Transactions on Communications, 2020, 68, 2339-2354.	4.9	7
80	Space-Time Block Codes in Keyhole Fading Channels: Error Rate Analysis and Performance Results. , 0, , .		6
81	On the Diversity Gain in MIMO Channels with Joint Rate and Power Control Based on Noisy CSITR. IEEE Transactions on Wireless Communications, 2011, 10, 68-72.	6.1	6
82	Privacy-Aware Sensor Network Via Multilayer Nonlinear Processing. IEEE Internet of Things Journal, 2019, 6, 10834-10845.	5.5	6
83	Resource optimization in anti-interference UAV powered cooperative mobile edge computing network. Physical Communication, 2020, 42, 101128.	1.2	6
84	A frequency-domain oversampling detector for zero-padded MC-CDMA systems. , 2009, , .		5
85	Geometry-Based Stochastic Modeling for Non-Stationary High-Speed Train MIMO Channels. , 2016, , .		5
86	Resource allocation for a full-duplex base station aided OFDMA system. , 2017, , .		5
87	Small Cell Range Expansion with Interference Mitigation for Downlink Massive MIMO HetNets. , 2018, , .		5
88	Fault-Tolerant Topology Control Towards <inline-formula> <tex-math notation="LaTeX">${K}$ </tex-math> </inline-formula>-Channel-Connectivity in Cognitive Radio Networks. IEEE Access, 2018, 6, 65308-65320.	2.6	5
89	Joint Bandwidth and Power Allocation of Hybrid Spectrum Sharing in Cognitive Radio - Invited Paper. , 2018, , .		5
90	Modeling and Analysis of User-Centric Collaborative Millimeter-Wave Cellular Networks. , 2019, , .		5

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91	Enhancing Transmission on Hybrid Precoding Based Train-to-Train Communication. Mobile Networks and Applications, 2020, 25, 2082-2091.	2.2	5
92	Modulation Recognition Using Signal Enhancement and Multistage Attention Mechanism. IEEE Transactions on Wireless Communications, 2022, 21, 9921-9935.	6.1	5
93	Performance evaluation and analysis of space-time coding for high data rate wireless personal communications. , 0, , .		4
94	Space-Time Block Codes in Nakagami Fading Channels with Non-Identical m-Distributions. , 2007, , .		4
95	Adaptive power allocation for multi-hop regenerative relaying OFDM systems. , 2010, , .		4
96	Jointly optimizing power allocation and relay positions for multi-relay regenerative relaying with relay selection. , 2010, , .		4
97	Energy efficient video QoE optimization for dynamic adaptive HTTP streaming over wireless networks. , 2016, , .		4
98	Signal path reckoning localization method in multipath environment. China Communications, 2017, 14, 182-189.	2.0	4
99	Price-Based Power Allocation in Two-Tier Spectrum Sharing Heterogeneous Cellular Networks. Journal of Communications and Information Networks, 2018, 3, 37-43.	3.5	4
100	Joint Annotator-and-Spectrum Allocation in Wireless Networks for Crowd Labeling. IEEE Transactions on Wireless Communications, 2020, 19, 6116-6129.	6.1	4
101	Deep Learning Based Trainable Approximate Message Passing for Massive MIMO Detection. , 2020, , .		4
102	Over-the-Air Computation of Large-Scale Nomographic Functions in MapReduce Over the Edge Cloud Network. IEEE Internet of Things Journal, 2022, 9, 11843-11857.	5.5	4
103	Performance analysis of adaptive modulation system over mobile satellite channels. , 2011, , .		3
104	Modulation classification for asynchronous high€order QAM signals. Wireless Communications and Mobile Computing, 2011, 11, 1415-1422.	0.8	3
105	Joint optimization of power allocation and relay location for regenerative relaying with multi€antenna reception at destination. Wireless Communications and Mobile Computing, 2012, 12, 1405-1413.	0.8	3
106	Achieving secrecy capacity of MISO fading wiretap channels with artificial noise. , 2013, , .		3
107	Adaptive multi-band resource allocation for wireless power and information transmission. , 2015, , .		3
108	Analyzing the WiFi Access Probability in LTE-U/WiFi Coexistence Networks. , 2017, , .		3

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109	Pilot reuse with a large number of antennas: Performance analysis and pilot contamination reduction. , 2017, , .		3
110	High-Rate Complex Orthogonal Space-Time Block Codes for High Number of Transmit Antennas. , 2007, , .		2
111	High-rate Complex Orthogonal Space-time Block Codes for 5 and 6 Transmit Antennas. Wireless Personal Communications, 2009, 49, 263-274.	1.8	2
112	A two-way training method for defending against pilot spoofing attack in MISO systems. , 2015, , .		2
113	High precision RF transmit power calibration based on recursive least squares estimation. , 2016, , .		2
114	Design of high efficiency rectifier operating at 2.4 GHz. , 2017, , .		2
115	Achieving secure communication through random phase rotation technique. , 2017, , .		2
116	A Secure Transmission Scheme Based on Artificial Fading for Wireless CrowdSensing Networks. Sensors, 2018, 18, 3500.	2.1	2
117	Energy-Efficient Predictive HTTP Adaptive Streaming in Mobile Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 11069-11083.	3.9	2
118	Distributed Successive Measurement Selection Based on Online Sparsity Inference. , 2019, , .		2
119	IEEE Access Special Section Editorial: Communication and Fog/Edge Computing Toward Intelligent Connected Vehicles (ICVS). IEEE Access, 2021, 9, 63740-63744.	2.6	2
120	Energy Optimization for Intelligent Reflecting Surface Assisted Mobile Edge Computing. , 2021, , .		2
121	Data Partition and Rate Control for Learning and Energy Efficient Edge Intelligence. IEEE Transactions on Wireless Communications, 2022, 21, 9127-9142.	6.1	2
122	Adaptive Channel Estimation for Multiple-Input Multiple-Output Frequency Domain Equalization. , 0, , .		1
123	A decentralize incentive mechanism for P2P file sharing systems. , 2007, , .		1
124	On the diversity performance of nonregenerative cooperative transmission systems. , 2007, , .		1
125	Proactive spectrum sensing with probing power control in cognitive radio. , 2010, , .		1
126	Cognitive spectrum sensing with the aid of location information. , 2011, , .		1

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127	Resource Allocation for Opportunistic Spectrum Sharing Based on Cooperative OFDM Relaying. , 2012, , .		1
128	Cognitive beamforming with unknown cross channel state information. , 2013, , .		1
129	Iterative frequency–domain fractionally spaced receiver for zero–padded multi–carrier code division multiple access systems. IET Communications, 2014, 8, 2993-3000.	1.5	1
130	Detection of pilot spoofing attack in multi-antenna systems via energy-ratio comparison. , 2015, , .		1
131	A novel diplexer-based receiver for simultaneous wireless information and power transfer. , 2016, , .		1
132	Two–stage frequency–domain oversampling receivers for cyclic prefix orthogonal frequency–division multiplexing systems. IET Communications, 2016, 10, 1246-1254.	1.5	1
133	Optimization of Train Headway in Automatic Train Control System. , 2018, , .		1
134	Modeling and Analysis of Millimeter-Wave Cellular Networks Using Poisson Cluster Processes. , 2018, , .		1
135	Adaptive Video Streaming for Massive MIMO Networks via Novel Approximate MDP. , 2020, , .		1
136	Multi-Slot Distributed Measurement Selection: A Sparsity Learning Approach. IEEE Transactions on Signal and Information Processing Over Networks, 2020, 6, 684-698.	1.6	1
137	Mechanical Fault Prognosis through Spectral Analysis of Vibration Signals. Algorithms, 2022, 15, 94.	1.2	1
138	A cross-layer MAC protocol and an opportunistic scheduling with APC for QoS support in WiMAX. , 2009, , .		0
139	Power allocation and relay selection in dual-hop regenerative relaying systems. , 2010, , .		0
140	Cognitive beamforming exploiting Stiefel manifold for sum-transmit power minimization. , 2011, , .		0
141	On the Diversity and Multiplexing Tradeoff in MIMO Fading Channels with Two-Way Training and Power Control. , 2011, , .		0
142	Joint Decision-Making and Power Allocation for One-Bit Feedback Sensor Communications. IEEE Wireless Communications Letters, 2012, 1, 177-180.	3.2	0
143	Performance analysis of uplink spatial multiplexing MIMO MT–CDMA over multipath fading channels. Wireless Communications and Mobile Computing, 2013, 13, 130-141.	0.8	0
144	Optimal channel selection in multi-user multi-channel secondary networks. , 2013, , .		0

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145	Joint power and rate control using game theory in heterogeneous networks. , 2013, , .		0
146	Time-efficient Relaying Strategies for Military Communication. , 2014, , .		0
147	Design of precoding matrix scheme based on maximizing frobenius norm to interference alignment. , 2017, , .		0
148	Power Control with Power Budget for Uplink Transmission in Heterogeneous Networks. , 2017, , .		0
149	Universal Filtered Multi-carrier Based Multi-user Simultaneous Wireless Information and Power Transfer Downlink System. , 2018, , .		0
150	Anti-Wiretap Spectrum-Sharing for Cooperative Cognitive Radio Communication Systems. Sensors, 2019, 19, 4142.	2.1	0
151	Joint Subcarrier-Pair and Power Allocation Based on SWIPT in Multi-Relay OFDM System. , 2020, , .		0
152	Performance Analysis of Direction of Arrival Estimation Based on Deep Learning. , 2020, , .		0
153	Optimal Subcarrier Allocation for Maximizing Energy Efficiency in AF Relay Systems. Lecture Notes in Electrical Engineering, 2020, , 1819-1825.	0.3	0
154	Joint Annotator Clustering and Power Control for Energy-Efficient Wireless Crowd Labelling. , 2021, , .		0