

# Haiyang Zhang

## List of Publications by Year in descending order

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256  
papers

4,154  
citations

134610

34  
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169272

56  
g-index

256  
all docs

256  
docs citations

256  
times ranked

4097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of Remote Radio Unit Selection in Millimeter-Wave Distributed Antenna Systems Over Fluctuating Two-Ray Fading. IEEE Wireless Communications Letters, 2022, 11, 235-239.	3.2	3
2	A Novel Wireless Communication Paradigm for Intelligent Reflecting Surface Based Symbiotic Radio Systems. IEEE Transactions on Signal Processing, 2022, 70, 550-565.	3.2	32
3	Design of a novel wireless information surveillance scheme assisted by reconfigurable intelligent surface. IET Communications, 2022, 16, 1545-1557.	1.5	2
4	Improper Gaussian Signaling for Downlink NOMA Systems With Imperfect Successive Interference Cancellation. IEEE Transactions on Wireless Communications, 2022, 21, 7753-7763.	6.1	10
5	Non-Outage Probability of Jamming-Assisted Continuous Eavesdropping With Multi-Antenna. IEEE Communications Letters, 2022, 26, 1236-1239.	2.5	0
6	Performance Analysis of Cache-Enabled User Association for Hybrid Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2022, 70, 2518-2531.	4.9	3
7	Learning-Based Resource Allocation in Heterogeneous Ultradense Network. IEEE Internet of Things Journal, 2022, 9, 20229-20242.	5.5	6
8	A Privacy-Preserved Split Learning Solution for Deep Learning-Based mmWave Beam Selection. IEEE Communications Letters, 2022, 26, 1474-1478.	2.5	3
9	Unsupervised Recurrent Federated Learning for Edge Popularity Prediction in Privacy-Preserving Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 24328-24345.	5.5	11
10	Intelligent Reflecting Surface-Aided Joint Processing Coordinated Multipoint Transmission. IEEE Transactions on Communications, 2021, 69, 1650-1665.	4.9	77
11	Joint User Association and Time Partitioning for Load Balancing in Ultra-Dense Heterogeneous Networks. Mobile Networks and Applications, 2021, 26, 909-922.	2.2	3
12	Multi-Agent Reinforcement Learning Based Distributed Transmission in Collaborative Cloud-Edge Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 1658-1672.	3.9	24
13	Video captioning via a symmetric bidirectional decoder. IET Computer Vision, 2021, 15, 283-296.	1.3	3
14	A PHD-SLAM Method for Mixed Birth Map Information Based on Amplitude Information. Mathematical Problems in Engineering, 2021, 2021, 1-13.	0.6	0
15	User Association and Power Allocation Based on Unsupervised Graph Model in Ultra-Dense Network. , 2021, , .		9
16	Bistatic Backscatter Communication: Shunt Network Design. IEEE Internet of Things Journal, 2021, 8, 7691-7705.	5.5	4
17	Influence of Autoencoder-Based Data Augmentation on Deep Learning-Based Wireless Communication. IEEE Wireless Communications Letters, 2021, 10, 2090-2093.	3.2	4
18	Hybrid Policy Learning for Energy-Latency Tradeoff in MEC-Assisted VR Video Service. IEEE Transactions on Vehicular Technology, 2021, 70, 9006-9021.	3.9	19

#	ARTICLE	IF	CITATIONS
19	Fine-Grained Analysis on Downlink LEO Satellite-Terrestrial mmWave Relay Networks. IEEE Wireless Communications Letters, 2021, 10, 1871-1875.	3.2	7
20	UAV-Assisted Intelligent Reflecting Surface Symbiotic Radio System. IEEE Transactions on Wireless Communications, 2021, 20, 5769-5785.	6.1	111
21	Deep Neural Network Aided Low-Complexity MPA Receivers for Uplink SCMA Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 9050-9062.	3.9	12
22	CAAGP: Rethinking channel attention with adaptive global pooling for liver tumor segmentation. Computers in Biology and Medicine, 2021, 138, 104875.	3.9	5
23	Coarse-to-Fine Spatial-Temporal Relationship Inference for Temporal Sentence Grounding. IEEE Access, 2021, 9, 97430-97443.	2.6	1
24	Collaborative Spatial-Temporal Interaction for Language-Based Moment Retrieval. , 2021, , .		1
25	Meta-Learning for mmWave Beam Prediction Using Sub-6 GHz Channels. , 2021, , .		0
26	Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. IEEE Systems Journal, 2020, 14, 445-456.	2.9	4
27	Analysis of Least Stochastic Entropy Adaptive Filters for Noncircular Gaussian Signals. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1364-1368.	2.2	11
28	An Offloading Mechanism Towards SE&#x2013;EE Experiences Tradeoff in Heterogeneous Cellular Networks. Wireless Personal Communications, 2020, 111, 2477-2491.	1.8	0
29	Throughput Maximization for Full-Duplex UAV Aided Small Cell Wireless Systems. IEEE Wireless Communications Letters, 2020, 9, 475-479.	3.2	33
30	Throughput Maximization for UAV-Aided Backscatter Communication Networks. IEEE Transactions on Communications, 2020, 68, 1254-1270.	4.9	40
31	Power-Efficient Beam Designs for Millimeter Wave Communication Systems. IEEE Transactions on Wireless Communications, 2020, 19, 1265-1279.	6.1	12
32	Joint Device Association and Power Coordination for H2H and IoT Communications in Massive MIMO Enabled HCNs. IEEE Access, 2020, 8, 72971-72984.	2.6	3
33	Multi-oriented Scene Text Detector with Atrous Convolution. , 2020, , .		1
34	A Multi-thread Business License Identification System Based on Modified DenseNet. , 2020, , .		0
35	Compact Multi-Wideband Array for Millimeter-Wave Communications Using Squint Beams. IEEE Access, 2020, 8, 183146-183164.	2.6	5
36	Complex Properness Inspired Blind Adaptive Frequency-Dependent I/Q Imbalance Compensation for Wideband Direct-Conversion Receivers. IEEE Transactions on Wireless Communications, 2020, 19, 5982-5992.	6.1	11

#	ARTICLE	IF	CITATIONS
37	3D UAV Trajectory and Communication Design for Simultaneous Uplink and Downlink Transmission. IEEE Transactions on Communications, 2020, 68, 5908-5923.	4.9	66
38	Joint User Scheduling and Beam Selection in mmWave Networks Based on Multi-Agent Reinforcement Learning. , 2020, , .		10
39	Conquering the Worst Case of Infections in Networks. IEEE Access, 2020, 8, 2835-2846.	2.6	2
40	Beyond Secrecy Rate in MISO Wiretap Channels: An Information Jamming Approach. IEEE Transactions on Communications, 2020, 68, 3057-3067.	4.9	4
41	Double Coded Caching in Ultra Dense Networks: Caching and Multicast Scheduling via Deep Reinforcement Learning. IEEE Transactions on Communications, 2020, 68, 1071-1086.	4.9	42
42	Jamming-Assisted Proactive Eavesdropping Over Two Suspicious Communication Links. IEEE Transactions on Wireless Communications, 2020, 19, 4817-4830.	6.1	31
43	Sampling Set Selection for Bandlimited Signals over Perturbed Graph. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 845-849.	0.2	0
44	Performance Evaluation and Analysis of Millimeter Wave Communication System. IEEE Systems Journal, 2019, 13, 159-170.	2.9	16
45	Energy-Efficient User Association with Open Loop Power Control for Uplink HCNs. , 2019, , .		0
46	Proactive Eavesdropping of Two Suspicious Communication Links via Jamming. , 2019, , .		8
47	User Association for Cache Enabled Millimeter Wave Ultra Dense Downlink Networks. , 2019, , .		0
48	Offloading Design for Energy and Spectral Efficiencies Tradeoff in Massive MIMO Enabled Heterogeneous Cellular Networks. IEEE Access, 2019, 7, 141330-141342.	2.6	1
49	Low-Complexity Decentralized Recommendation System With Similarity Constraints. IEEE Access, 2019, 7, 146922-146938.	2.6	0
50	Simultaneous DFT and IDFT through Widely Linear CLMS. , 2019, , .		0
51	A game-theoretic learning approach to QoE-driven resource allocation scheme in 5G-enabled IoT. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	8
52	Optimal Design of Multiple Panel Arrays in LoS MIMO System. , 2019, , .		3
53	Joint CoMP Transmission for UAV-Aided Cognitive Satellite Terrestrial Networks. IEEE Access, 2019, 7, 14959-14968.	2.6	39
54	Secure Wireless Information and Power Transfer Based on Tilt Adaptation in 3-D Massive MIMO Systems. IEEE Access, 2019, 7, 5531-5540.	2.6	3

#	ARTICLE	IF	CITATIONS
55	Energy-Efficient Cooperative Secure Transmission in Multi-UAV-Enabled Wireless Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7761-7775.	3.9	103
56	Energy-efficient optimisation for UAV-aided wireless sensor networks. IET Communications, 2019, 13, 972-980.	1.5	9
57	How to Deploy Multiple UAVs for Providing Communication Service in an Unknown Region?. IEEE Wireless Communications Letters, 2019, 8, 1276-1279.	3.2	39
58	UAV-Aided Mobile Edge Computing Systems With One by One Access Scheme. IEEE Transactions on Green Communications and Networking, 2019, 3, 664-678.	3.5	60
59	Green Base Station Assignment for NOMA-Enabled HCNs. IEEE Access, 2019, 7, 53018-53031.	2.6	4
60	The multi-objective deployment optimization of UAV-mounted cache-enabled base stations. Physical Communication, 2019, 34, 114-120.	1.2	27
61	Placement Delivery Array Design via Attention-Based Sequence-to-Sequence Model With Deep Neural Network. IEEE Wireless Communications Letters, 2019, 8, 372-375.	3.2	8
62	Hybrid Precoding for Single Carrier Wideband Multi-Subarray Millimeter Wave Systems. IEEE Wireless Communications Letters, 2019, 8, 484-487.	3.2	10
63	Multi-beam receive scheme for millimetre wave wireless communication system. IET Communications, 2019, 13, 216-222.	1.5	8
64	The Efficient BackFi Transmission Design in Ambient Backscatter Communication Systems for IoT. IEEE Access, 2019, 7, 31397-31408.	2.6	33
65	Proactive Caching in Auto Driving Scene via Deep Reinforcement Learning. , 2019, , .		6
66	Semantic Segmentation of Retinal Vessel Images via Dense Convolution and Depth Separable Convolution. , 2019, , .		1
67	A Novel Approach to Angle-of-Arrival Estimation Based on Layered Ensemble Learning. , 2019, , .		0
68	A Multi-level Feature Fusion Network for Real-time Semantic Segmentation. , 2019, , .		3
69	Hybrid-Order and Multi-Stream Convolutional Neural Network for Fine-Grained Visual Recognition. , 2019, , .		0
70	UAV-Aided Backscatter Networks: Joint UAV Trajectory and Protocol Design. , 2019, , .		5
71	The Design of Load Balancing Mechanism under Fractional Frequency Reuse for Heterogeneous Cellular Networks. , 2019, , .		1
72	On the Cover Problem for Coded Caching in Wireless Networks via Deep Neural Network. , 2019, , .		1

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73	Joint service improvement and content placement for cache-enabled heterogeneous cellular networks. IET Signal Processing, 2019, 13, 253-261.	0.9	4
74	Smart Longitudinal Velocity Control of Autonomous Vehicles in Interactions With Distracted Human-Driven Vehicles. IEEE Access, 2019, 7, 168060-168074.	2.6	2
75	Robust Multigroup Multicast Beamforming Design for Backhaul-Limited Cloud Radio Access Network. IEEE Signal Processing Letters, 2019, 26, 189-193.	2.1	11
76	Decentralized Precoding for Cache-Enabled Ultra-Dense Radio Access Networks. IEEE Wireless Communications Letters, 2019, 8, 404-407.	3.2	1
77	Energy-Efficient Optimization for UAV-Aided Cellular Offloading. IEEE Wireless Communications Letters, 2019, 8, 769-772.	3.2	40
78	Proactive Eavesdropping in UAV-Aided Suspicious Communication Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 1993-1997.	3.9	54
79	Outage analysis for simultaneous wireless information and power transfer in dual-hop relaying networks. Wireless Networks, 2019, 25, 837-844.	2.0	11
80	Graph-Based Joint User-Centric Overlapped Clustering and Resource Allocation in Ultradense Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4440-4453.	3.9	53
81	Power-Efficient Communication in UAV-Aided Wireless Sensor Networks. IEEE Communications Letters, 2018, 22, 1264-1267.	2.5	116
82	Secrecy Performance of Transmit Antenna Selection for MIMO Relay Systems With Outdated CSI. IEEE Transactions on Communications, 2018, 66, 546-559.	4.9	64
83	Resource Optimization in Heterogeneous Cloud Radio Access Networks. IEEE Communications Letters, 2018, 22, 494-497.	2.5	27
84	Performance Analysis for Massive MIMO Downlink With Low Complexity Approximate Zero-Forcing Precoding. IEEE Transactions on Communications, 2018, 66, 3848-3864.	4.9	33
85	SINR balancing technique for robust beamforming in V2X-SWIPT system based on a non-linear EH model. Physical Communication, 2018, 29, 95-102.	1.2	7
86	Analysis of Panel Antenna Arrays in Los MIMO System. IEEE Access, 2018, 6, 23303-23315.	2.6	9
87	Joint User Association and Power Control for Load Balancing in Downlink Heterogeneous Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2582-2593.	3.9	61
88	Resource allocation for outage performance in heterogeneous networks: a matching game approach. Wireless Networks, 2018, 24, 1873-1883.	2.0	3
89	Resource Optimization for Device-to-Device and Small Cell Uplink Communications Underlying Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 1187-1201.	3.9	28
90	Energy optimization for Cellular-Connected UAV Mobile Edge Computing Systems. , 2018, , .		18

#	ARTICLE	IF	CITATIONS
91	Optimal Resource Partitioning and Bit Allocation for UAV-Enabled Mobile Edge Computing. , 2018, , .		19
92	Proactive Eavesdropping via Jamming in Cognitive Radio Networks. , 2018, , .		10
93	Going beyond Secrecy Rate via Information Jamming. , 2018, , .		7
94	Cache-Enabled Adaptive Bit Rate Streaming via Deep Self-Transfer Reinforcement Learning. , 2018, , .		5
95	Energy-Efficient Cooperative Hybrid Precoding for Millimeter-Wave Communication Networks. , 2018, , .		4
96	Performance Analysis of Multi-Hop Relaying Cooperation for Internet-of-Things System. , 2018, , .		0
97	Positioning Algorithm and AoD Estimation for mmWave FD-MISO System. , 2018, , .		7
98	Hybrid Precoding for Wideband Millimeter-Wave Systems With Finite Resolution Phase Shifters. IEEE Transactions on Vehicular Technology, 2018, 67, 11285-11290.	3.9	25
99	A Novel Approach for the Estimation of Doubly Spread Acoustic Channels Based on Wavelet Transform. Applied Sciences (Switzerland), 2018, 8, 38.	1.3	4
100	Modularity-Based User-Centric Clustering and Resource Allocation for Ultra Dense Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12457-12461.	3.9	20
101	An Overview of China Millimeter-Wave Multiple Gigabit Wireless Local Area Network System. IEICE Transactions on Communications, 2018, E101.B, 262-276.	0.4	8
102	Performance Analysis of Multihop Relaying Caching for Internet of Things under Nakagami Channels. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	0.8	10
103	Personalized optimal bicycle trip planning based on Q-learning algorithm. , 2018, , .		4
104	A Normalized Complex LMS Based Blind I/Q Imbalance Compensator for GFDM Receivers and Its Full Second-Order Performance Analysis. IEEE Transactions on Signal Processing, 2018, 66, 4701-4712.	3.2	29
105	Wideband millimeter wave communication: Single carrier based hybrid precoding with sparse optimization. IEEE Transactions on Vehicular Technology, 2018, 67, 9696-9710.	3.9	29
106	Low Complexity Approximate Zero-Forcing Precoding for Massive MIMO Downlink. , 2018, , .		0
107	Secrecy Energy Efficiency Optimization for MIMO SWIPT Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2018, E101.A, 1141-1145.	0.2	1
108	Secure User-Centric Clustering for Energy Efficient Ultra-Dense Networks: Design and Optimization. IEEE Journal on Selected Areas in Communications, 2018, 36, 1609-1621.	9.7	28

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109	Wideband Millimeter Wave Communication With Lens Antenna Array: Joint Beamforming and Antenna Selection With Group Sparse Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 6575-6589.	6.1	38
110	Performance Analysis of Heterogeneous Networks With Interference Cancellation. IEEE Transactions on Vehicular Technology, 2017, 66, 6969-6981.	3.9	20
111	Cooperative Precoding for Wireless Energy Transfer and Secure Cognitive Radio Coexistence Systems. IEEE Signal Processing Letters, 2017, 24, 540-544.	2.1	13
112	Energy-efficient resource allocation for device-to-device communication with WPT. IET Communications, 2017, 11, 326-334.	1.5	25
113	Joint Design of User Association and Power Allocation With Proportional Fairness in Massive MIMO HetNets. IEEE Access, 2017, 5, 6560-6569.	2.6	28
114	IQ Imbalance Compensation for Generalized Frequency Division Multiplexing Systems. IEEE Wireless Communications Letters, 2017, 6, 422-425.	3.2	21
115	Pilot Contamination Reduction in Multi-cell TDD Systems with Very Large MIMO Arrays. Wireless Personal Communications, 2017, 96, 5785-5808.	1.8	9
116	Antenna selection for two-way full duplex massive MIMO networks with amplify-and-forward relay. Science China Information Sciences, 2017, 60, 1.	2.7	7
117	Parameter Estimation for Multi-Scale Multi-Lag Underwater Acoustic Channels Based on Modified Particle Swarm Optimization Algorithm. IEEE Access, 2017, 5, 4808-4820.	2.6	21
118	Secure Beamforming for Full-Duplex Wireless Powered Communication Systems With Self-Energy Recycling. IEEE Wireless Communications Letters, 2017, 6, 146-149.	3.2	26
119	Energy-efficient precoding design for cloud radio access networks. IET Communications, 2017, 11, 1864-1870.	1.5	4
120	Exploiting BS Antenna Tilt for SWIPT in 3-D Massive MIMO Systems. IEEE Wireless Communications Letters, 2017, 6, 666-669.	3.2	18
121	On Optimal Power Allocation for Downlink Non-Orthogonal Multiple Access Systems. IEEE Journal on Selected Areas in Communications, 2017, , 1-1.	9.7	235
122	Codebook Design for Beam Alignment in Millimeter Wave Communication Systems. IEEE Transactions on Communications, 2017, 65, 4980-4995.	4.9	103
123	Performance Scaling Law for Multicell Multiuser Massive MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 9890-9903.	3.9	17
124	Energy Efficient Beamforming for Massive MIMO Public Channel. IEEE Transactions on Vehicular Technology, 2017, 66, 10595-10600.	3.9	27
125	Beam-Blocked Channel Estimation for FDD Massive MIMO With Compressed Feedback. IEEE Access, 2017, 5, 11791-11804.	2.6	36
126	Cooperative Multi-Subarray Beam Training in Millimeter Wave Communication Systems. , 2017, , .		11



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127	Robust Secure Beamforming for Wireless Powered Full-Duplex Systems With Self-Energy Recycling. IEEE Transactions on Vehicular Technology, 2017, 66, 10055-10069.	3.9	44
128	Training sequence design for channel estimation and IQ imbalance compensation in GFDM systems. , 2017, , .		2
129	Constant envelope precoding for secure millimeter-wave wireless communication. , 2017, , .		3
130	A learning-based approach for proactive caching in wireless communication networks. , 2017, , .		9
131	Optimal design of 3D MIMO SWIPT systems with tilt adaptation. , 2017, , .		1
132	Throughput maximization for UAV-enabled wireless power transfer in relaying system. , 2017, , .		37
133	Joint user scheduling and hybrid precoding design for MIMO C-RAN. , 2017, , .		11
134	Comprehensive scaling law for single-cell massive MIMO with MRT. , 2017, , .		0
135	System performance evaluation for millimeter wave wireless communication. , 2017, , .		1
136	Location-aided channel tracking and downlink transmission for HST massive MIMO systems. IET Communications, 2017, 11, 2082-2088.	1.5	10
137	Energy-Efficient Optimization for Device-to-Device Communication Underlying Cellular Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1079-1083.	0.2	0
138	Distributed Optimization with Incomplete Information for Heterogeneous Cellular Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2017, E100.A, 1578-1582.	0.2	0
139	Per-Antenna Constant Envelope Precoding and Antenna Subset Selection: A Geometric Approach. IEEE Transactions on Signal Processing, 2016, 64, 6089-6104.	3.2	27
140	Interference-tolerating transmission protocol design for three-cell systems. Transactions on Emerging Telecommunications Technologies, 2016, 27, 474-483.	2.6	2
141	Energy Efficient Joint User Association and Power Allocation Design in Massive MIMO Empowered Dense HetNets. , 2016, , .		5
142	A stochastic alternating minimization approach for large scale Low Rank Matrix Factorization. , 2016, , .		0
143	Energy-efficient resource allocation in C-RAN with fronthaul rate constraints. , 2016, , .		7
144	Coordinated multicell beamforming for massive multiple-input multiple-output systems based on uplink-downlink duality. IET Communications, 2016, 10, 2380-2390.	1.5	2

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145	Max-min fair robust beamforming design for multi-user MISO SWIPT systems. , 2016, , .		5
146	Hierarchy precoder design for multi-cell multiuser multiple-input multiple-output wireless networks with interference alignment. IET Signal Processing, 2016, 10, 218-226.	0.9	2
147	Resource allocation for device-to-device and small cell uplink communication networks. , 2016, , .		5
148	Joint User Association and Interference Mitigation for D2D-Enabled Heterogeneous Cellular Networks. Mobile Networks and Applications, 2016, 21, 589-602.	2.2	7
149	Energy-efficient user association in downlink heterogeneous cellular networks. IET Communications, 2016, 10, 1553-1561.	1.5	28
150	Joint Antenna Selection and Energy-Efficient Beamforming Design. IEEE Signal Processing Letters, 2016, , 1-1.	2.1	20
151	Channel Characteristic and Capacity Analysis of Millimeter Wave MIMO Beamforming System. , 2016, , .		7
152	Performance analysis of low-complexity channel prediction for uplink massive MIMO. IET Communications, 2016, 10, 1744-1751.	1.5	8
153	Secure Beamforming Design for SWIPT in MISO Broadcast Channel With Confidential Messages and External Eavesdroppers. IEEE Transactions on Wireless Communications, 2016, 15, 7807-7819.	6.1	55
154	Asymmetric subarray structure design for mmWave LoS MIMO communication systems. , 2016, , .		9
155	Beam-blocked compressive channel estimation for FDD massive MIMO systems. , 2016, , .		7
156	Analysis over Spectral Efficiency and Power Scaling in Massive MIMO Dual-Hop Systems with Multi-Pair Users. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1665-1673.	0.2	2
157	Energy efficient design for multiuser downlink energy and uplink information transfer in 5G. Science China Information Sciences, 2016, 59, 1-8.	2.7	17
158	Adaptive Overhearing in Two-Way Multi-Antenna Relay Channels. IEEE Signal Processing Letters, 2016, 23, 117-120.	2.1	53
159	Spectral-Efficient Cellular Communications With Coexistent One- and Two-Hop Transmissions. IEEE Transactions on Vehicular Technology, 2016, 65, 6765-6772.	3.9	106
160	Energy-Efficient Optimization for Downlink Massive MIMO FDD Systems With Transmit-Side Channel Correlation. IEEE Transactions on Vehicular Technology, 2016, 65, 7228-7243.	3.9	93
161	Resource Efficiency: A New Beamforming Design for Multicell Multiuser Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 6063-6074.	3.9	5
162	Overhearing Protocol Design Exploiting Intercell Interference in Cooperative Green Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 441-446.	3.9	102

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163	A new transceiver design based on weighted sum-MSE criterion for multi-cell MIMO interfering broadcast channels. , 2015, , .		0
164	Robust collaborative relay beamforming design for two-way relay systems with reciprocal CSI. Wireless Networks, 2015, 21, 2209-2221.	2.0	2
165	Distributed offloading strategy with interference avoidance for heterogeneous cellular networks. , 2015, , .		0
166	Interference Alignment in Two-Cell LTE-Advanced Heterogeneous Networks. IEICE Transactions on Communications, 2015, E98.B, 126-133.	0.4	0
167	Simultaneous Wireless Information and Power Transfer in a MISO Broadcast Channel with Confidential Messages. , 2015, , .		6
168	Statistical beamforming for FDD massive MIMO downlink systems. , 2015, , .		9
169	An efficient interference mitigating scheme for cognitive radio networks: From the perspective of space pooling. , 2015, , .		0
170	Energy-Efficient Resource Allocation in Uplink Multiuser Massive MIMO Systems. International Journal of Antennas and Propagation, 2015, 2015, 1-9.	0.7	11
171	Game Theoretic Max-logit Learning Approaches for Joint Base Station Selection and Resource Allocation in Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 1068-1081.	9.7	39
172	Load-aware user association with quality of service support in heterogeneous cellular networks. IET Communications, 2015, 9, 494-500.	1.5	25
173	Energy Efficient Coordinated Beamforming Design in Multi-Cell Multicast Networks. IEEE Communications Letters, 2015, 19, 985-988.	2.5	35
174	Secure Transmission Scheme for SWIPT in MISO Broadcast Channel with Confidential Messages and External Eavesdroppers. , 2015, , .		3
175	Energy efficient multi-pair transmission in large-scale multi-antenna relay systems. , 2015, , .		3
176	Ergodic rate analysis for massive MIMO relay systems with multi-pair users under imperfect CSI. , 2015, , .		8
177	Performance analysis of self-organizing heterogeneous network with interference cancellation. , 2015, , .		2
178	Low complexity complex matrix inversion method for MIMO communication systems. , 2015, , .		3
179	A fast parallel matrix inversion algorithm based on heterogeneous multicore architectures. , 2015, , .		6
180	Robust security-aware beamforming design for cognitive radio networks. , 2015, , .		0

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181	Optimal Energy-Efficient Resource Allocation for Massive MIMO FDD Downlink System. , 2015, , .		2
182	Energy efficient power allocation scheme in heterogeneous cellular networks. , 2015, , .		4
183	An efficient low PAPR training sequence design scheme under spectral constraints in mm-Wave OFDM communication. , 2015, , .		1
184	Phase noise mitigation for millimeter-wave SC-FDE MIMO systems. , 2015, , .		1
185	Resource efficient beamforming design for heterogeneous multiuser systems. , 2015, , .		0
186	Optimal Energy to Spectral-Efficiency Trade-off in Cooperative Networks. Wireless Personal Communications, 2015, 82, 1547-1566.	1.8	1
187	User association with jointly maximising downlink sum rate and minimising uplink sum power for heterogeneous cellular networks. IET Communications, 2015, 9, 300-308.	1.5	15
188	Performance Analysis of Antenna Selection in Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2015, 63, 2520-2532.	3.2	45
189	Energy-efficient transmission for decode-and-forward dual-hop networks with asymmetric traffic demands. IET Communications, 2015, 9, 1781-1787.	1.5	4
190	Performance analysis of relay-aided heterogeneous networks with interference cancellation. , 2015, , .		1
191	Secure Beamforming for SWIPT in Multiuser MISO Broadcast Channel With Confidential Messages. IEEE Communications Letters, 2015, 19, 1347-1350.	2.5	57
192	A novel adaptive dual-interleaving and angle detection spatial modulation scheme for wireless communication systems. , 2015, , .		0
193	Enhanced power-save multi-poll mechanism for multi-user downlink transmission in WLAN. , 2015, , .		2
194	Robust Beamforming for Joint Transceiver Design in <i>K</i>-User Interference Channel over Energy Efficient 5G. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1860-1864.	0.2	1
195	Power control and low-complexity receiver for uplink massive MIMO systems. , 2014, , .		2
196	QoS-Aware User Association for Load Balancing in Heterogeneous Cellular Networks. , 2014, , .		33
197	Coordinated Multicell Precoding for Weighted Sum Rate Maximization with Per-Cell EE Constraints. , 2014, , .		0
198	Coordinated energy-efficient precoding for CR MIMO interference channels. , 2014, , .		5

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199	Energy-efficient coordinated precoding for multicell system with transceiver impairments. , 2014, , .		0
200	Robust transmission for simultaneous wireless information and power transfer systems with secrecy constraints. , 2014, , .		2
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202	Robust beamforming design under imperfect CSI for two-way relay system with reciprocal channels. , 2014, , .		1
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