

Hong-Bo Zhu

List of Publications by Year in descending order

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142
papers

2,467
citations

257450

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145
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docs citations

145
times ranked

2197
citing authors

#	ARTICLE	IF	CITATIONS
1	Small-Cell Sleeping and Association for Energy-Harvesting-Aided Cellular IoT With Full-Duplex Self-Backhails: A Game-Theoretic Approach. IEEE Internet of Things Journal, 2022, 9, 2304-2318.	8.7	6
2	Multigroup Multicast Downlink Cell-Free Massive MIMO Systems With Multiantenna Users and Low-Resolution ADCs/DACs. IEEE Systems Journal, 2022, 16, 3578-3589.	4.6	6
3	Downlink Achievable Rate of D2D Underlaid Cell-Free Massive MIMO Systems With Low-Resolution DACs. IEEE Systems Journal, 2022, 16, 3855-3866.	4.6	9
4	Cell-Free Massive MIMO Systems With Low-Resolution ADCs: The Rician Fading Case. IEEE Systems Journal, 2022, 16, 1471-1482.	4.6	10
5	Novel Integrated Framework of Unmanned Aerial Vehicle and Road Traffic for Energy-Efficient Delay-Sensitive Delivery. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10692-10707.	8.0	5
6	Jamming-Assisted Legitimate Eavesdropping and Secure Communication in Multicarrier Interference Networks. IEEE Systems Journal, 2022, 16, 954-965.	4.6	10
7	Person Density Dependency on Path Loss and Root Mean Square Delay Spread for Smart Office Scenarios. IEEE Internet of Things Journal, 2022, 9, 11190-11202.	8.7	1
8	Adaptive Hierarchical Federated Learning Over Wireless Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 2070-2083.	6.3	18
9	Proactive Eavesdropping for Wireless Information Surveillance Under Suspicious Communication Quality-of-Service Constraint. IEEE Transactions on Wireless Communications, 2022, 21, 5220-5234.	9.2	8
10	An Adaptive Vehicle Clustering Algorithm Based on Power Minimization in Vehicular Ad-Hoc Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 2939-2948.	6.3	11
11	Secure Transmission in Cell-Free Massive MIMO With Low-Resolution DACs Over Rician Fading Channels. IEEE Transactions on Communications, 2022, 70, 2606-2621.	7.8	20
12	Energy Efficiency and Delay Tradeoff in an MEC-Enabled Mobile IoT Network. IEEE Internet of Things Journal, 2022, 9, 15942-15956.	8.7	18
13	Legitimate Surveillance of Suspicious Computation Offloading in Mobile Edge Computing Networks. IEEE Transactions on Communications, 2022, 70, 2648-2662.	7.8	10
14	Wireless-Powered Cell-Free Massive MIMO With Superimposed Pilot Transmission. IEEE Communications Letters, 2022, 26, 1688-1692.	4.1	3
15	NAS-AMR: Neural Architecture Search-Based Automatic Modulation Recognition for Integrated Sensing and Communication Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 1374-1386.	7.9	44
16	A Unified Framework for Distributed RIS-Aided Downlink Systems Between MIMO-NOMA and MIMO-SDMA. IEEE Transactions on Communications, 2022, 70, 6310-6324.	7.8	8
17	Wireless light energy harvesting and communication in a waterproof GaN optoelectronic system. , 2022, 1, .		9
18	Analysis of Uplink Cell-Free Massive MIMO System With Mixed-ADC/DAC Receiver. IEEE Systems Journal, 2021, 15, 5162-5173.	4.6	28

#	ARTICLE	IF	CITATIONS
19	RF Impairments and Low-Resolution ADCs for Nonideal Uplink Cell-Free Massive MIMO Systems. IEEE Systems Journal, 2021, 15, 2519-2530.	4.6	24
20	Superimposed Pilots are Beneficial for Mitigating Pilot Contamination in Cell-Free Massive MIMO. IEEE Communications Letters, 2021, 25, 279-283.	4.1	20
21	Mobility-Aware Offloading and Resource Allocation in a MEC-Enabled IoT Network With Energy Harvesting. IEEE Internet of Things Journal, 2021, 8, 17541-17556.	8.7	47
22	Adaptive Power Allocation for Wireless-Powered FD-NOMA System With Cooperation Versus Non-Cooperation. IEEE Transactions on Vehicular Technology, 2021, 70, 10395-10408.	6.3	9
23	Spectrum Sharing Incentive for Legitimate Wireless Information Surveillance. IEEE Transactions on Vehicular Technology, 2021, 70, 2529-2543.	6.3	13
24	On the spectral efficiency of cell-free large-scale MIMO non-orthogonal multiple access systems. , 2021, 111, 102995.		5
25	Node ranking strategy in virtual network embedding: An overview. China Communications, 2021, 18, 114-136.	3.2	4
26	Sum-Rate Maximization of Wireless Powered Primary Users for Cooperative CRNs: NOMA or TDMA at Cognitive Users?. IEEE Transactions on Communications, 2021, 69, 4862-4876.	7.8	26
27	Online Client Scheduling for Fast Federated Learning. IEEE Wireless Communications Letters, 2021, 10, 1434-1438.	5.0	28
28	Sum-SE for Multigroup Multicast Cell-Free Massive MIMO With Multi-Antenna Users and Low-Resolution DACs. IEEE Wireless Communications Letters, 2021, 10, 1702-1706.	5.0	13
29	Uniting GaN Electronics and Photonics on A Single Chip. Journal of Lightwave Technology, 2021, 39, 6269-6275.	4.6	15
30	Cell-Free Massive MIMO Systems With Non-Ideal Hardware: Phase Drifts and Distortion Noise. IEEE Transactions on Vehicular Technology, 2021, 70, 11604-11618.	6.3	3
31	Proactive eavesdropping of wireless powered suspicious interference networks. Science China Information Sciences, 2021, 64, 1.	4.3	2
32	Trajectory optimization and resource allocation for UAV-assisted relaying communications. Wireless Networks, 2020, 26, 739-749.	3.0	20
33	On the Performance of Cell-Free Massive MIMO With Mixed-ADC Under Rician Fading Channels. IEEE Communications Letters, 2020, 24, 43-47.	4.1	56
34	Secure Wireless Powered Cooperative Communication Networks With Finite Energy Storage. IEEE Transactions on Vehicular Technology, 2020, 69, 1008-1022.	6.3	12
35	Multi-Armed Bandit-Based Client Scheduling for Federated Learning. IEEE Transactions on Wireless Communications, 2020, 19, 7108-7123.	9.2	155
36	Joint resource optimisation in cell-free massive MIMO with low-resolution ADCs. IET Communications, 2020, 14, 1894-1901.	2.2	2

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37	A user matching and power allocation scheme for downlink MIMO-NOMA communication system. <i>Physical Communication</i> , 2020, 42, 101174.	2.1	1
38	Sum-rate maximization in uplink cell-free massive multiinput multioutput system with jamming. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020, 31, e4044.	3.9	0
39	Neural-Network-Based Root Mean Delay Spread Model for Ubiquitous Indoor Internet-of-Things Scenarios. <i>IEEE Internet of Things Journal</i> , 2020, 7, 5580-5589.	8.7	8
40	Model-Driven Beamforming Neural Networks. <i>IEEE Wireless Communications</i> , 2020, 27, 68-75.	9.0	12
41	Comparison of the Hydration Characteristics of Ultra-High-Performance and Normal Cementitious Materials. <i>Materials</i> , 2020, 13, 2594.	2.9	7
42	Secure Communication via Multiple RF-EH Untrusted Relays With Finite Energy Storage. <i>IEEE Internet of Things Journal</i> , 2020, 7, 1476-1487.	8.7	11
43	Enabling Collaborative Computing Sustainably Through Computational Latency-Based Pricing. <i>IEEE Transactions on Sustainable Computing</i> , 2020, 5, 541-551.	3.1	7
44	Deep Learning-based Prediction of Traffic Accident Risk in Vehicular Networks. , 2020, , .		1
45	Directivity Enhancement of Planar Endfire Circularly Polarized Antenna Using V-Shaped 1.5-Wavelength Dipoles. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1420-1423.	4.0	23
46	Energy-Effective Data Gathering for UAV-Aided Wireless Sensor Networks. <i>Sensors</i> , 2019, 19, 2506.	3.8	28
47	Energy Efficiency Based Joint Computation Offloading and Resource Allocation in Multi-Access MEC Systems. <i>IEEE Access</i> , 2019, 7, 117054-117062.	4.2	67
48	Statistical Sparse Channel Modeling for Measured and Simulated Wireless Temporal Channels. <i>IEEE Transactions on Wireless Communications</i> , 2019, 18, 5868-5881.	9.2	8
49	Secure Transmission for SWIPT IoT Systems With Full-Duplex IoT Devices. <i>IEEE Internet of Things Journal</i> , 2019, 6, 10915-10933.	8.7	63
50	Jammer-Assisted Legitimate Eavesdropping in Wireless Powered Suspicious Communication Networks. <i>IEEE Access</i> , 2019, 7, 20363-20380.	4.2	25
51	Vehicle Accident Risk Prediction Based on AdaBoost-SO in VANETs. <i>IEEE Access</i> , 2019, 7, 14549-14557.	4.2	30
52	Outage Minimized Resource Allocation for Multiuser OFDM Systems With SWIPT. <i>IEEE Access</i> , 2019, 7, 79714-79725.	4.2	18
53	Programmable Hierarchical C-RAN: From Task Scheduling to Resource Allocation. <i>IEEE Transactions on Wireless Communications</i> , 2019, 18, 2003-2016.	9.2	37
54	FMCNN: A Factorization Machine Combined Neural Network for Driving Safety Prediction in Vehicular Communication. <i>IEEE Access</i> , 2019, 7, 11698-11706.	4.2	11

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55	Energy-Saving Computation Offloading by Joint Data Compression and Resource Allocation for Mobile-Edge Computing. IEEE Communications Letters, 2019, 23, 704-707.	4.1	64
56	Priority-Based Massive Random Access of M2M Communications in LTE Networks: Throughput Analysis and optimization. , 2019, , .		1
57	Modelling and Optimization Algorithm for Dynamic Volume of Access to VOD Business in Ubiquitous Wireless Environment. , 2019, , .		0
58	Wireless Virtual Embedding Algorithm Considering Inter-cell Interference in 5G Ultra-dense Network. , 2019, , .		1
59	Quality of Service Assisted Mapping Strategy in Virtualization Environment. , 2019, , .		0
60	A Multi-channel Cooperative Demand-Aware Media Access Control Scheme in Vehicular Ad-Hoc Network. Wireless Personal Communications, 2019, 104, 325-337.	2.7	6
61	A novel user behavior analysis and prediction algorithm based on mobile social environment. Wireless Networks, 2019, 25, 791-803.	3.0	11
62	Mapping strategy for virtual networks in one stage. IET Communications, 2019, 13, 2207-2215.	2.2	10
63	A Connectivity-Based Multi-Lane Routing Optimization Algorithm in Vehicular Communication. Wireless Personal Communications, 2018, 100, 1339-1353.	2.7	0
64	Novel Node-Ranking Approach and Multiple Topology Attributes-Based Embedding Algorithm for Single-Domain Virtual Network Embedding. IEEE Internet of Things Journal, 2018, 5, 108-120.	8.7	116
65	Sparse Channel Modelling Using Multi-Measurement Vector Compressive Sensing. , 2018, , .		2
66	Vehicle Accident Risk Prediction Over AdaBoost from VANETs. , 2018, , .		4
67	Toward a M2M-Based Internet of Vehicles Framework for Wireless Monitoring Applications. IEEE Access, 2018, 6, 67699-67708.	4.2	6
68	Multipath TCP Path Scheduling optimization Based on Q-Learning in Vehicular Heterogeneous Networks. , 2018, , .		5
69	Location Aware and Node Ranking Value-Assisted Embedding Algorithm for One-Stage Embedding in Multiple Distributed Virtual Network Embedding. IEEE Access, 2018, 6, 78425-78436.	4.2	7
70	A Driving Risk Prediction Algorithm Based on PCA -BP Neural Network in Vehicular Communication. , 2018, , .		9
71	Congestion-Optimal WiFi Offloading with User Mobility Management in Smart Communications. Wireless Communications and Mobile Computing, 2018, 2018, 1-15.	1.2	14
72	ER-VNE: A Joint Energy and Revenue Embedding Algorithm for Embedding Virtual Networks. IEEE Access, 2018, 6, 47815-47827.	4.2	7

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73	Envisioning an Endfire Circularly Polarized Antenna: Presenting a Planar Antenna with a Wide Beamwidth and Enhanced Front-to-Back Ratio. IEEE Antennas and Propagation Magazine, 2018, 60, 70-79.	1.4	15
74	Off-Body Spatial Diversity Reception Using Circular and Linear Polarization: Measurement and Modeling. IEEE Communications Letters, 2018, 22, 209-212.	4.1	23
75	Queue-Aware Small Cell Activation for Energy Efficiency in Two-Tier Heterogeneous Networks. , 2017, , .		2
76	Wireless Information and Power Transfer Design for Energy Cooperation Distributed Antenna Systems. IEEE Access, 2017, 5, 8094-8105.	4.2	29
77	M2M Access With Dynamic Cognitive Virtual Operators: A Data Aggregator's Perspective. IEEE Access, 2017, 5, 5662-5677.	4.2	2
78	Outage Performance for Cooperative NOMA Transmission with an AF Relay. IEEE Communications Letters, 2017, 21, 2428-2431.	4.1	130
79	Multi-pair massive MIMO relay networks: power scaling laws and user scheduling strategy. IET Communications, 2017, 11, 1619-1625.	2.2	2
80	Queue-Aware Optimal Bandwidth Allocation in Heterogeneous Networks. IEEE Wireless Communications Letters, 2017, 6, 730-733.	5.0	2
81	Measurement and Modeling of Wireless Off-Body Propagation Characteristics Under Hospital Environment at 6-8.5 GHz. IEEE Access, 2017, 5, 10915-10923.	4.2	16
82	Environment-Driven Opportunity Forwarding Cross-Layer Optimization for Ubiquitous Wireless Networks. Wireless Personal Communications, 2017, 92, 1177-1191.	2.7	1
83	Embedding virtual networks using a novel node-ranking approach via exploiting topology attributes and global network resources. , 2017, , .		3
84	Multi-authority attribute-based access control scheme in mHealth cloud with unbounded attribute universe and decryption outsourcing. , 2017, , .		7
85	Direction-Of-Arrival Estimation and Tracking Based on a Sequential Implementation of C-SPICE with an Off-Grid Model. Sensors, 2017, 17, 2718.	3.8	5
86	An efficient embedding algorithm for virtual network via exploiting topology attributes and global network resources. , 2017, , .		1
87	A Sum-of-Squares and Semidefinite Programming Approach for Maximum Likelihood DOA Estimation. Sensors, 2016, 16, 2191.	3.8	1
88	Body obstruction characteristics for off-body channel under hospital environment at 6-8.5 GHz. , 2016, , .		3
89	Smart Health Service System: Objectives, Framework and Solution. , 2016, , .		0
90	Route optimization algorithm based on multi-lanes in VANET. , 2016, , .		1

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91	Unified low-layer power allocation and high-layer mode control for video delivery in device-to-device network with multi-antenna relays. IET Communications, 2016, 10, 1196-1205.	2.2	6
92	Wideband dual-mode planar endfire antenna with circular polarisation. Electronics Letters, 2016, 52, 1000-1001.	1.0	30
93	Outage Balancing in Downlink Non-Orthogonal Multiple Access With Statistical Channel State Information. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	55
94	A Novel Planar Endfire Circularly Polarized Antenna With Wide Axial-Ratio Beamwidth and Wide Impedance Bandwidth. IEEE Transactions on Antennas and Propagation, 2016, 64, 4554-4559.	5.1	55
95	Study on Cognitive Opportunistic Relaying with the Interference from Primary User over Nakagami-m Fading Channels. Wireless Personal Communications, 2016, 91, 793-810.	2.7	0
96	Study on cognitive DF relaying cooperation with the mutual interference between primary and secondary users over Nakagami-m fading channels. International Journal of Communication Systems, 2016, 29, 579-601.	2.5	7
97	On-chip integration of suspended InGaN/GaN multiple-quantum-well devices with versatile functionalities. Optics Express, 2016, 24, 6004.	3.4	54
98	Optimal Biased Association Scheme with Heterogeneous User Distribution in HetNets. Wireless Personal Communications, 2016, 90, 575-594.	2.7	4
99	Pilot contamination reduction based on MSE performance of channel estimation. , 2015, , .		3
100	Beamforming and interference cancellation schemes for D2D communications. , 2015, , .		3
101	Outage probability of device-to-device communication assisted by one-way amplify-and-forward relaying. IET Communications, 2015, 9, 271-282.	2.2	20
102	Optimal Harvest-Use-Store Strategy for Energy Harvesting Wireless Systems. IEEE Transactions on Wireless Communications, 2015, 14, 698-710.	9.2	60
103	Planar Endfire Circularly Polarized Antenna Using Combined Magnetic Dipoles. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1263-1266.	4.0	89
104	Time-Varying Doppler Frequency Offset Estimation Method for LTE-TDD Uplink with Multi-user in HST Scenario. Wireless Personal Communications, 2015, 82, 1127-1146.	2.7	1
105	Pairwise Transmission Using Superposition Coding for Relay-Assisted Downlink Communications. IEEE Transactions on Wireless Communications, 2015, 14, 2788-2801.	9.2	5
106	Research of Resource Optimization Technology Based on Connectivity Probability in Vehicular Network. Wireless Personal Communications, 2015, 85, 1451-1469.	2.7	0
107	Second-order statistics of multiuser relay cooperation systems over Nakagami-m fading channels. International Journal of Communication Systems, 2014, 27, 2931-2955.	2.5	1
108	Synergy routing and dynamic spectrum allocation in multi-hop cognitive radio networks. IET Networks, 2014, 3, 82-87.	1.8	5

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109	Numerical analysis of planar dual-band off-centered slot-dipole composite antenna. , 2014, , .		0
110	Quality-Driven Capacity-Aware Resources Optimization Design for Ubiquitous Wireless Networks. Wireless Personal Communications, 2014, 77, 329-344.	2.7	3
111	Performance Analysis of the Primary User in the Secondary User Relay Assisted Spectrum Sharing Networks. Wireless Personal Communications, 2014, 75, 2411-2428.	2.7	2
112	Optimal Performance of Cognitive Random Access Networks With Multi-Packet Reception. IEEE Communications Letters, 2014, 18, 1807-1810.	4.1	1
113	Power Scaling of Uplink Massive MIMO Systems With Arbitrary-Rank Channel Means. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 966-981.	10.8	435
114	Throughput Differentiation and Optimization Via TXOP in IEEE 802.11e EDCA Networks. Wireless Personal Communications, 2014, 78, 543-560.	2.7	0
115	Cognitive opportunistic relaying systems with mobile nodes: average outage rates and outage durations. IET Communications, 2014, 8, 789-799.	2.2	7
116	On impact of relay placement for energy-efficient cooperative networks. IET Communications, 2014, 8, 140-151.	2.2	3
117	Outage Probability and Ergodic Capacity Analysis for Two-Way Relaying System with Different Relay Selection Protocols. Wireless Personal Communications, 2013, 72, 2047-2067.	2.7	3
118	Spectrum Capacity for Ad Hoc Networks Using Cognitive Radios: An Analytical Model. Wireless Personal Communications, 2013, 71, 2097-2109.	2.7	3
119	Analyzing electromagnetic scattering using characteristic basis function method with compressed sensing. , 2013, , .		7
120	“ <i>N</i> ” <i>R</i> th dual best relays opportunistic cooperation schemes and performance analyses over Nakagami- <i>m</i> fading channels. IET Communications, 2013, 7, 349-359.	2.2	2
121	Pareto-optimal power allocation of device-to-device communication with two-way decode-and-forward helping relay. , 2013, , .		2
122	Adaptive resource allocation method over OFDMA system for H.264 SVC transmission. , 2012, , .		1
123	Robust video stabilization based on particle filtering with weighted feature points. IEEE Transactions on Consumer Electronics, 2012, 58, 570-577.	3.6	27
124	The spectrum allocation of primary user based on Bayesian game. , 2012, , .		1
125	Angle of Arrival Statistics for a 3-D Cylinder Model. Wireless Personal Communications, 2012, 64, 847-857.	2.7	4
126	Precoding and decoding design for two-way MIMO AF multiple-relay system. Journal of Electronics, 2012, 29, 177-189.	0.2	0

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127	Design concept of compact multilayer ultra-wideband antipodal slot antenna. , 2010, , .		0
128	A Novel Rake Receiver Using RLS Adaptive Algorithm for DS-UWB Systems. , 2010, , .		2
129	Dual-band balanced antipodal dipole-slot antenna. , 2010, , .		0
130	Numerical analysis of a novel antenna array for ultra-wideband polarization diversity applications. , 2010, , .		1
131	Experimental study on indoor channel model for wireless sensor networks and Internet of Things. , 2010, , .		4
132	Numerical study of symmetrical ultra-wideband antipodal slot antenna. , 2010, , .		1
133	MAC-Layer Scheduling Based on Service Coefficients in Heterogeneous Wireless Networks. , 2009, , .		2
134	Super-wideband antipodal slot antenna. , 2009, , .		5
135	Optimization and Scheduling of Spectrum Sensing Periods in Heterogeneous Wireless Networks. , 2009, , .		0
136	A novel composite right/left-handed transmission line with zero-order resonant frequency. Microwave and Optical Technology Letters, 2009, 51, 1592-1595.	1.4	1
137	Channel capacity analysis of spectrum-sharing with imperfect channel sensing. , 2009, , .		6
138	Half-circular antipodal slot antenna with super-wideband performance. , 2009, , .		1
139	Novel antipodal ultra-wideband slot antenna with low cross-polarization performance. , 2008, , .		0
140	Generalized Path Loss Model for Wireless Channels in Homogenous Propagation Environments. , 2007, , .		1
141	On Extrapolation of Electromagnetic Responses in Time and Frequency Domains. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 28, 677-688.	0.6	0
142	The Dielectric and the Temperature-rising Characteristics of Ore Fines Materials in Microwave Field. , 0, , 115-121.		0