Zhaohui Yang

List of Publications by Year
in descending order

		168829	120465
125 papers	4,713 citations	31 h-index	65 g-index
125 all docs	125 docs citations	125 times ranked	3654 citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Semisupervised Federated Learning for Images Automatic Recognition in Internet of Drones. IEEE Internet of Things Journal, 2023, 10, 5733-5746.	5.5	6
2	Joint Deployment and Resource Management for VLC-Enabled RISs-Assisted UAV Networks. IEEE Transactions on Wireless Communications, 2023, 22, 746-760.	6.1	10
3	Fair Computation Efficiency for OFDMA-Based Multiaccess Edge Computing Systems. IEEE Communications Letters, 2023, 27, 916-920.	2.5	2
4	Resource Allocation in Full-Duplex UAV Enabled Multismall Cell Networks. IEEE Transactions on Mobile Computing, 2022, 21, 1049-1060.	3.9	11
5	Energy-Efficient Wireless Communications With Distributed Reconfigurable Intelligent Surfaces. IEEE Transactions on Wireless Communications, 2022, 21, 665-679.	6.1	107
6	Joint Optimization of Power and Location in Full-Duplex UAV Enabled Systems. IEEE Systems Journal, 2022, 16, 914-921.	2.9	8
7	Resource Allocation for Secure SWIPT-Enabled D2D Communications With $alpha$ Fairness. IEEE Transactions on Vehicular Technology, 2022, 71, 1101-1106.	3.9	12
8	Federated Learning in Multi-RIS-Aided Systems. IEEE Internet of Things Journal, 2022, 9, 9608-9624.	5.5	45
9	Unsourced Random Massive Access With Beam-Space Tree Decoding. IEEE Journal on Selected Areas in Communications, 2022, 40, 1146-1161.	9.7	12
10	Distributed Reinforcement Learning for Age of Information Minimization in Real-Time IoT Systems. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 501-515.	7.3	16
11	Federated Learning for 6G: Applications, Challenges, and Opportunities. Engineering, 2022, 8, 33-41.	3.2	105
12	Aerial Computing: A New Computing Paradigm, Applications, and Challenges. IEEE Internet of Things Journal, 2022, 9, 8339-8363.	5.5	38
13	Meta-Reinforcement Learning for Reliable Communication in THz/VLC Wireless VR Networks. IEEE Transactions on Wireless Communications, 2022, 21, 7778-7793.	6.1	5
14	Performance analysis for reconfigurable intelligent surface assisted downlink NOMA networks. IET Communications, 2022, 16, 1593-1605.	1.5	5
15	Safeguarding NOMA Networks via Reconfigurable Dual-Functional Surface Under Imperfect CSI. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 950-966.	7.3	13
16	Joint Channel Estimation and Signal Recovery for RIS-Empowered Multiuser Communications. IEEE Transactions on Communications, 2022, 70, 4640-4655.	4.9	49
17	Optimal Resource Management for NOMA-Based Visible Light Communication Systems With Shot Noise. IEEE Transactions on Green Communications and Networking, 2022, 6, 2015-2031.	3.5	2
18	Integrating Over-the-Air Federated Learning and Non-Orthogonal Multiple Access: What Role Can RIS Play?. IEEE Transactions on Wireless Communications, 2022, 21, 10083-10099.	6.1	26

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19	Environment Sensing Considering the Occlusion Effect: A Multi-View Approach. IEEE Transactions on Signal Processing, 2022, 70, 3598-3615.	3.2	10
20	STAR-RIS Integrated Nonorthogonal Multiple Access and Over-the-Air Federated Learning: Framework, Analysis, and Optimization. IEEE Internet of Things Journal, 2022, 9, 17136-17156.	5.5	26
21	Robust Design for STAR-RIS Secured Internet of Medical Things. , 2022, , .		4
22	Optimal Control for Digital-Twin THz/VLC Communication Networks. , 2022, , .		1
23	JMSNAS: Joint Model Split and Neural Architecture Search for Learning over Mobile Edge Networks. , 2022, , .		6
24	A Joint Learning and Communications Framework for Federated Learning Over Wireless Networks. IEEE Transactions on Wireless Communications, 2021, 20, 269-283.	6.1	663
25	Beamforming Design for Multiuser Transmission Through Reconfigurable Intelligent Surface. IEEE Transactions on Communications, 2021, 69, 589-601.	4.9	65
26	Efficient Algorithms for Cache-Throughput Analysis in Cellular-D2D 5G Networks. Computers, Materials and Continua, 2021, 67, 1759-1780.	1.5	5
27	Federated Learning in 6G Mobile Wireless Networks. Computer Communications and Networks, 2021, , 359-378.	0.8	1
28	Joint Channel Estimation and Signal Recovery in RIS-Assisted Multi-User MISO Communications. , 2021, , .		9
29	Energy Efficient Federated Learning Over Wireless Communication Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1935-1949.	6.1	438
30	Cross‑layer multipath congestion control, routing and scheduling design in ad hoc wireless networks. IET Communications, 2021, 15, 1096-1108.	1.5	5
31	Energy-Efficient Resource Allocation with Imperfect CSI in NOMA-based D2D Networks with SWIPT. , 2021, , .		3
32	Low-Complexity Channel Estimation for Intelligent Reflecting Surface-Enhanced Massive MIMO. IEEE Wireless Communications Letters, 2021, 10, 996-1000.	3.2	32
33	Performance Optimization of Distributed Primal-Dual Algorithms over Wireless Networks. , 2021, , .		1
34	Energy Efficient Reconfigurable Intelligent Surface Enabled Mobile Edge Computing Networks With NOMA. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 427-440.	4.9	59
35	Performance Analysis and Optimization for Visible Light Communication with Spatial Modulation. , 2021, , .		0
36	Optimal Control for Full-Duplex Communications with Reconfigurable Intelligent Surface. , 2021, , .		9

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37	Secure Intelligent Reflecting Surface Assisted UAV Communication Networks. , 2021, , .		11
38	Multi-Hop RIS-Empowered Terahertz Communications: A DRL-Based Hybrid Beamforming Design. IEEE Journal on Selected Areas in Communications, 2021, 39, 1663-1677.	9.7	202
39	Meta-Reinforcement Learning for Immersive Virtual Reality over THz/VLC Wireless Networks. , 2021, , .		4
40	Joint Location, Bandwidth and Power Optimization for THz-Enabled UAV Communications. IEEE Communications Letters, 2021, 25, 1984-1988.	2.5	40
41	RIS-Enhanced WPCNs: Joint Radio Resource Allocation and Passive Beamforming Optimization. IEEE Transactions on Vehicular Technology, 2021, 70, 7980-7991.	3.9	43
42	Optimization of Rate Allocation and Power Control for Rate Splitting Multiple Access (RSMA). IEEE Transactions on Communications, 2021, 69, 5988-6002.	4.9	61
43	Federated Learning for Audio Semantic Communication. Frontiers in Communications and Networks, 2021, 2, .	1.9	18
44	Device Selection of Distributed Primal-Dual Algorithms Over Wireless Networks. , 2021, , .		1
45	Federated Learning based Audio Semantic Communication over Wireless Networks. , 2021, , .		33
46	Hybrid Beamforming for Distributed Intelligent Reflecting Surfaces-Aided Systems. , 2021, , .		2
47	A Caching Strategy Towards Maximal D2D Assisted Offloading Gain. IEEE Transactions on Mobile Computing, 2020, 19, 2489-2504.	3.9	14
48	Energy Efficient UAV Communication With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2020, 69, 1913-1927.	3.9	143
49	Downlink Sum-Rate Maximization for Rate Splitting Multiple Access (RSMA). , 2020, , .		9
50	Deep Learning for Optimal Deployment of UAVs With Visible Light Communications. IEEE Transactions on Wireless Communications, 2020, 19, 7049-7063.	6.1	63
51	Cooperative Rate-Splitting for Secrecy Sum-Rate Enhancement in Multi-antenna Broadcast Channels. , 2020, , .		32
52	Hardware Impairment-Aware Data Collection and Wireless Power Transfer using a MIMO Full-Duplex UAV. , 2020, , .		7
53	Joint Transceiver Beamforming Design for Hybrid Full-Duplex and Half-Duplex Ad-Hoc Networks. IEEE Transactions on Mobile Computing, 2020, , 1-1.	3.9	2
54	Energy Efficient Rate Splitting Multiple Access (RSMA) with Reconfigurable Intelligent Surface. , 2020, , .		63

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55	Power-Efficient Transmission for User-Centric Networks With Limited Fronthaul Capacity and Computation Resource. IEEE Transactions on Communications, 2020, 68, 5649-5660.	4.9	7
56	Resource Allocation for UAV Assisted Wireless Networks with QoS Constraints. , 2020, , .		5
57	Fair Non-Orthogonal Multiple Access Communication Systems with Reconfigurable Intelligent Surface. , 2020, , .		5
58	Channel Assignment in Uplink Wireless Communication Using Machine Learning Approach. IEEE Communications Letters, 2020, 24, 787-791.	2.5	13
59	Classification of Electromyographic Hand Gesture Signals Using Modified Fuzzy C-Means Clustering and Two-Step Machine Learning Approach. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1428-1435.	2.7	33
60	Multicell Edge Coverage Enhancement Using Mobile UAV-Relay. IEEE Internet of Things Journal, 2020, 7, 7482-7494.	5.5	23
61	Hybrid Beamforming for RIS-Empowered Multi-hop Terahertz Communications: A DRL-based Method. , 2020, , .		35
62	Resource Allocation for Wireless Communications with Distributed Reconfigurable Intelligent Surfaces. , 2020, , .		7
63	Guest Editorial: Communication Technologies for Efficient Edge Learning. IEEE Communications Magazine, 2020, 58, 12-13.	4.9	5
64	Reflecting the Light: Energy Efficient Visible Light Communication with Reconfigurable Intelligent Surface. , 2020, , .		21
65	Energy Efficient Beamforming for User-Centric Virtual Cell Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 575-590.	3.5	8
66	Efficient Resource Allocation for Mobile-Edge Computing Networks With NOMA: Completion Time and Energy Minimization. IEEE Transactions on Communications, 2019, 67, 7771-7784.	4.9	77
67	Energy Efficient Resource Allocation in UAV-Enabled Mobile Edge Computing Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4576-4589.	6.1	277
68	Resource Allocation in Full-Duplex Mobile-Edge Computation Systems with NOMA and Energy Harvesting. , 2019, , .		10
69	Dynamic AP Clustering and Precoding for User-Centric Virtual Cell Networks. IEEE Transactions on Communications, 2019, 67, 2504-2516.	4.9	11
70	Dynamic Resource Allocation for LTE-Based Vehicle-to-Infrastructure Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 5017-5030.	3.9	15
71	Joint Trajectory and Communication Design for Secure UAV Networks. IEEE Communications Letters, 2019, 23, 636-639.	2.5	55
72	Device-to-Device (D2D) Communication as a Bootstrapping System in a Wireless Cellular Network. IEEE Access, 2019, 7, 6661-6678.	2.6	16

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73	Performance Optimization of Federated Learning over Wireless Networks. , 2019, , .		61
74	On Fair Secure Rate Maximization for NOMA Downlinks using Quantum Key Distribution. , 2019, , .		0
75	Gated Recurrent Units Learning for Optimal Deployment of Visible Light Communications Enabled UAVs. , 2019, , .		6
76	Sum-Rate Maximization of Uplink Rate Splitting Multiple Access (RSMA) Communication. , 2019, , .		19
77	Energy-Efficient NOMA-Based Mobile Edge Computing Offloading. IEEE Communications Letters, 2019, 23, 310-313.	2.5	129
78	Joint Power, Altitude, Location and Bandwidth Optimization for UAV With Underlaid D2D Communications. IEEE Wireless Communications Letters, 2019, 8, 524-527.	3.2	39
79	Optimal Fairness-Aware Time and Power Allocation in Wireless Powered Communication Networks. IEEE Transactions on Communications, 2018, 66, 3122-3135.	4.9	25
80	Robust Transmission Design for Multicell D2D Underlaid Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 5922-5936.	3.9	5
81	Association and Load Optimization With User Priorities in Load-Coupled Heterogeneous Networks. IEEE Transactions on Wireless Communications, 2018, 17, 324-338.	6.1	19
82	Energy Efficient Resource Allocation in Machine-to-Machine Communications With Multiple Access and Energy Harvesting for IoT. IEEE Internet of Things Journal, 2018, 5, 229-245.	5.5	157
83	Power Control for Multi-Cell Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2018, 17, 927-942.	6.1	62
84	Resource Allocation for D2D Communications Underlaying a NOMA-Based Cellular Network. IEEE Wireless Communications Letters, 2018, 7, 130-133.	3.2	120
85	Energy-Efficient D2D Communications Underlaying NOMA-Based Networks With Energy Harvesting. IEEE Communications Letters, 2018, 22, 914-917.	2.5	84
86	Power Control and Resource Allocation for Multi-Cell OFDM Networks With Load Coupling. IEEE Access, 2018, 6, 15969-15979.	2.6	3
87	Compressive Sensing-Based User Clustering for Downlink NOMA Systems With Decoding Power. IEEE Signal Processing Letters, 2018, 25, 660-664.	2.1	12
88	Pilot Reuse Among D2D Users in D2D Underlaid Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 467-482.	3.9	30
89	Energy Efficient Resource Allocation for Mobile-Edge Computation Networks with NOMA. , 2018, , .		24
90	Resource Allocation for Relay-Assisted D2D Communications with Network Coding. , 2018, , .		1

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91	Joint Power and Channel Allocation for D2D Underlaying Cellular Networks With Rician Fading. IEEE Communications Letters, 2018, 22, 2615-2618.	2.5	27
92	Joint bandwidth, caching and association optimization for D2D assisted wireless networks. , 2018, , .		5
93	Energy-Efficient Mode Selection and Resource Allocation for Relay-Assisted D2D Communications. , 2018, , .		3
94	Cache Placement in Two-Tier HetNets With Limited Storage Capacity: Cache or Buffer?. IEEE Transactions on Communications, 2018, 66, 5415-5429.	4.9	37
95	Joint Altitude, Beamwidth, Location, and Bandwidth Optimization for UAV-Enabled Communications. IEEE Communications Letters, 2018, 22, 1716-1719.	2.5	112
96	Sum Rate Maximization for VLC Systems With Simultaneous Wireless Information and Power Transfer. IEEE Photonics Technology Letters, 2017, 29, 531-534.	1.3	34
97	On the Optimality of Power Allocation for NOMA Downlinks With Individual QoS Constraints. IEEE Communications Letters, 2017, 21, 1649-1652.	2.5	162
98	Energy Efficient Non-Orthogonal Multiple Access for Machine-to-Machine Communications. IEEE Communications Letters, 2017, 21, 817-820.	2.5	45
99	Energy-Efficient Resource Allocation in D2D Underlaid Cellular Uplinks. IEEE Communications Letters, 2017, 21, 560-563.	2.5	42
100	Enhanced subcarrier-index modulation-based asymmetrically clipped optical OFDM using even subcarriers. Optics Communications, 2017, 402, 600-605.	1.0	5
101	On the Mutual Information of VLC Systems Employing Color-Shift Keying. IEEE Photonics Technology Letters, 2017, 29, 1427-1430.	1.3	3
102	Joint Time Allocation and Power Control in Multicell Networks With Load Coupling: Energy Saving and Rate Improvement. IEEE Transactions on Vehicular Technology, 2017, 66, 10470-10485.	3.9	16
103	Pilot Allocation and Power Control in D2D Underlay Massive MIMO Systems. IEEE Communications Letters, 2017, 21, 112-115.	2.5	27
104	Compressive sensing based multiuser detection for asynchronous machine-to-machine systems. , 2017, , .		2
105	Energy efficient resource allocation for machine-to-machine communications with NOMA and energy harvesting. , 2017, , .		13
106	Energy Minimization in Machine-to-Machine Systems with Energy Harvesting. , 2017, , .		3
107	Asynchronous detection for machine-to-machine systems with code division multiple access. , 2017, , .		0
108	Resource Allocation and Power Control for Power Minimization in OFDM Networks. , 2017, , .		1

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109	Precoder design in user-centric virtual cell networks. , 2017, , .		2
110	Performance analysis for full-duplex relaying D2D communications in cellular networks. , 2017, , .		3
111	Impact of LED transmitters' radiation pattern on received power distribution in a generalized indoor VLC system. Optics Express, 2017, 25, 22805.	1.7	8
112	Joint power control and user pairing for ergodic capacity maximization in V2V communications. , 2017, , .		4
113	User Association, Resource Allocation and Power Control in Load-Coupled Heterogeneous Networks. , 2016, , .		10
114	Channel Allocation and Power Control in D2D Uplink Underlaid Cellular Networks. , 2016, , .		6
115	Resource Allocation for Energy-Efficient Transmission in D2D Underlaid Cellular Networks. , 2016, , .		4
116	Resource and power allocation for Uplink LTE networks with load and power coupling. , 2016, , .		1
117	Energy-Efficient Optimization with Cell Load Coupling for OFDM Networks. , 2016, , .		3
118	Downlink Resource Allocation and Power Control for Device-to-Device Communication Underlaying Cellular Networks. IEEE Communications Letters, 2016, , 1-1.	2.5	30
119	Fair Non-Orthogonal Multiple Access for Visible Light Communication Downlinks. IEEE Wireless Communications Letters, 2016, , 1-1.	3.2	88
120	Power control and resource allocation for multi-cell OFDM networks. , 2016, , .		5
121	Power Control in D2D Underlay Massive MIMO Systems with Pilot Reuse. , 2016, , .		6
122	On the Performance of Spatial Modulation Based Optical Wireless Communications. IEEE Photonics Technology Letters, 2016, , 1-1.	1.3	25
123	Relay-Assisted Device-to-Device Communications for Video Transmission in Cellular Networks. , 2015, , .		1
124	Cell sites planning with minimized power consumption under cell load balancing constraint in LTE networks. , 2013, , .		3
125	Antenna location design for distributed antenna systems with pilot contamination. , 2013, , .		1