

Rongqing Zhang

List of Publications by Year in descending order

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123
papers

3,275
citations

172207
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123
all docs

123
docs citations

123
times ranked

3117
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical Layer Security for Two-Way Untrusted Relaying With Friendly Jammers. IEEE Transactions on Vehicular Technology, 2012, 61, 3693-3704.	3.9	316
2	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. IEEE Transactions on Information Forensics and Security, 2012, 7, 310-320.	4.5	254
3	Interference Graph-Based Resource Allocation (InGRA) for D2D Communications Underlying Cellular Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 3844-3850.	3.9	107
4	Cooperation via Spectrum Sharing for Physical Layer Security in Device-to-Device Communications Underlying Cellular Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5651-5663.	6.1	107
5	A Novel Centralized TDMA-Based Scheduling Protocol for Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 411-416.	4.7	105
6	Interference Graph-Based Resource-Sharing Schemes for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 4028-4039.	3.9	103
7	Data Dissemination in VANETs: A Scheduling Approach. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2213-2223.	4.7	103
8	Flexible Energy Management Protocol for Cooperative EV-to-EV Charging. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 172-184.	4.7	102
9	Channel Prediction Based Scheduling for Data Dissemination in VANETs. IEEE Communications Letters, 2017, 21, 1409-1412.	2.5	97
10	Wireless Toward the Era of Intelligent Vehicles. IEEE Internet of Things Journal, 2019, 6, 188-202.	5.5	94
11	Relay Selection in Full-Duplex Energy-Harvesting Two-Way Relay Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 182-191.	3.5	87
12	Interference-aware graph based resource sharing for device-to-device communications underlying cellular networks. , 2013, , .		84
13	Capacity-Enhancing Full-Duplex Relay Networks based on Power-Splitting (PS-)SWIPT. IEEE Transactions on Vehicular Technology, 2017, 66, 5445-5450.	3.9	81
14	Graph Coloring Based Resource Sharing (GCRS) Scheme for D2D Communications Underlying Full-Duplex Cellular Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7506-7517.	3.9	80
15	Distributed resource allocation for device-to-device communications underlying cellular networks. , 2013, , .		70
16	Interference Hypergraph-Based Resource Allocation (IHG-RA) for NOMA-Integrated V2X Networks. IEEE Internet of Things Journal, 2019, 6, 161-170.	5.5	65
17	Energy Management Framework for Electric Vehicles in the Smart Grid: A Three-Party Game. IEEE Communications Magazine, 2016, 54, 93-101.	4.9	59
18	Physical Layer Security for Two Way Relay Communications with Friendly Jammers. , 2010, , .		58

#	ARTICLE	IF	CITATIONS
19	Cooperative Jamming for Secure UAV Communications With Partial Eavesdropper Information. IEEE Access, 2019, 7, 94593-94603.	2.6	54
20	Distributed Congestion Control Approaches for the IEEE 802.11p Vehicular Networks. IEEE Intelligent Transportation Systems Magazine, 2013, 5, 50-61.	2.6	46
21	Interference-Free Graph Based TDMA Protocol for Underwater Acoustic Sensor Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4008-4019.	3.9	45
22	Interference Hypergraph-Based 3D Matching Resource Allocation Protocol for NOMA-V2X Networks. IEEE Access, 2019, 7, 90789-90800.	2.6	43
23	Routing Protocol Design for Underwater Optical Wireless Sensor Networks: A Multiagent Reinforcement Learning Approach. IEEE Internet of Things Journal, 2020, 7, 9805-9818.	5.5	43
24	UAV-Assisted Data Collection With Nonorthogonal Multiple Access. IEEE Internet of Things Journal, 2021, 8, 501-511.	5.5	41
25	Full-Duplex UAV Relaying for Multiple User Pairs. IEEE Internet of Things Journal, 2021, 8, 4657-4667.	5.5	38
26	Secure Massive MIMO Under Imperfect CSI: Performance Analysis and Channel Prediction. IEEE Transactions on Information Forensics and Security, 2019, 14, 1610-1623.	4.5	37
27	Cooperative Jamming via Spectrum Sharing for Secure UAV Communications. IEEE Wireless Communications Letters, 2020, 9, 326-330.	3.2	36
28	Consumer-Centered Energy System for Electric Vehicles and the Smart Grid. IEEE Intelligent Systems, 2016, 31, 97-101.	4.0	34
29	Multi-Vehicle Collaborative Learning for Trajectory Prediction With Spatio-Temporal Tensor Fusion. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 236-248.	4.7	34
30	A UAV-Enabled Data Dissemination Protocol With Proactive Caching and File Sharing in V2X Networks. IEEE Transactions on Communications, 2021, 69, 3930-3942.	4.9	34
31	Hierarchical Traffic Flow Prediction Based on Spatial-Temporal Graph Convolutional Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16137-16147.	4.7	32
32	5G enabled vehicular communications and networking. China Communications, 2018, 15, iii-vi.	2.0	31
33	Truthful Mechanisms for Secure Communication in Wireless Cooperative System. IEEE Transactions on Wireless Communications, 2013, 12, 4236-4245.	6.1	30
34	UAV-Assisted Data Dissemination Scheduling in VANETs. , 2018, , .		30
35	Resonant Beam Charging-Powered UAV-Assisted Sensing Data Collection. IEEE Transactions on Vehicular Technology, 2020, 69, 1086-1090.	3.9	29
36	Graph-Based File Dispatching Protocol With D2D-Enhanced UAV-NOMA Communications in Large-Scale Networks. IEEE Internet of Things Journal, 2020, 7, 8615-8630.	5.5	29

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37	A survey on unmanned aerial vehicle relaying networks. IET Communications, 2021, 15, 1262-1272.	1.5	29
38	Antenna Clustering for Bidirectional Dynamic Network With Large-Scale Distributed Antenna Systems. IEEE Access, 2017, 5, 4037-4047.	2.6	24
39	Joint Relay and Jammer Selection for Secure Two-Way Relay Networks. , 2011, , .		23
40	Relay Selection for Bidirectional AF Relay Network With Outdated CSI. IEEE Transactions on Vehicular Technology, 2013, 62, 4357-4365.	3.9	23
41	5G-Enabled Vehicular Communications and Networking. Wireless Networks, 2019, , .	0.3	22
42	Distributed Coalition Formation of Relay and Friendly Jammers for Secure Cooperative Networks. , 2011, , .		21
43	Improve physical layer security in cooperative wireless network using distributed auction games. , 2011, , .		20
44	Network formation games for the link selection of cooperative localization in wireless networks. , 2014, , .		19
45	Interference-free pilot design and channel estimation using ZCZ sequences for MIMO-OFDM-based C-V2X communications. China Communications, 2018, 15, 47-54.	2.0	19
46	Relay Selection in Two-Way Full-Duplex Energy-Harvesting Relay Networks. , 2016, , .		17
47	Joint power and access control for physical layer security in D2D communications underlying cellular networks. , 2016, , .		17
48	Power Allocation for Two-Way Relay System Based on Sequential Second Price Auction. Wireless Personal Communications, 2012, 67, 47-62.	1.8	16
49	Interference-avoidance pilot design using ZCZ sequences for multi-cell MIMO-OFDM systems. , 2012, , .		15
50	A graph coloring resource sharing scheme for full-duplex cellular-VANET heterogeneous networks. , 2016, , .		15
51	Bidirectional dynamic networks with massive MIMO: performance analysis. IET Communications, 2017, 11, 468-476.	1.5	15
52	A unified TDMA-based scheduling protocol for Vehicle-to-Infrastructure communications. , 2013, , .		14
53	Investigation on DL and UL power control in full-duplex systems. , 2015, , .		14
54	UAV-Aided Data Dissemination Protocol with Dynamic Trajectory Scheduling in VANETs. , 2019, , .		14

#	ARTICLE	IF	CITATIONS
55	Joint Power Allocation and Splitting (JoPAS) for SWIPT in Doubly Selective Vehicular Channels. IEEE Transactions on Green Communications and Networking, 2017, 1, 494-502.	3.5	13
56	Relay in the Sky: A UAV-Aided Cooperative Data Dissemination Scheduling Strategy in VANETs. , 2019, , .		13
57	UAV-Assisted Data Dissemination with Proactive Caching and File Sharing in V2X Networks. , 2019, , .		13
58	Generalized User Grouping in NOMA Based on Overlapping Coalition Formation Game. IEEE Journal on Selected Areas in Communications, 2021, 39, 969-981.	9.7	13
59	Stable Matching Based Cooperative V2V Charging Mechanism for Electric Vehicles. , 2017, , .		12
60	Flexible Energy Management Protocol for Cooperative EV-to-EV Charging. , 2016, , .		11
61	Cooperative Content Download-and-Share: Motivating D2D in Cellular Networks. IEEE Communications Letters, 2017, 21, 1831-1834.	2.5	11
62	Cooperation via Spectrum Sharing for Physical Layer Security in Device-to-Device Communications Underlying Cellular Networks. , 2015, , .		10
63	Anomaly detection for cellular networks using big data analytics. IET Communications, 2019, 13, 3351-3359.	1.5	10
64	Capacity Analysis of Bidirectional AF Relay Selection with Imperfect Channel State Information. IEEE Wireless Communications Letters, 2013, 2, 255-258.	3.2	9
65	Resource sharing for device-to-device communications underlying full-duplex cellular networks. , 2014, , .		9
66	Overlapping Coalition Formation Game Based Opportunistic Cooperative Localization Scheme for Wireless Networks. IEEE Transactions on Communications, 2017, , 1-1.	4.9	9
67	Density-aware deployment with multi-layer UAV-V2X communication networks. IET Communications, 2020, 14, 2709-2715.	1.5	9
68	Joint power control and subchannel allocation for OFDMA femtocell networks using distributed auction game. , 2012, , .		8
69	Joint Transmit Power and Trajectory Optimization for Two-Way Multi-Hop UAV Relaying Networks. , 2020, , .		8
70	Mobility Prediction-Based Joint Task Assignment and Resource Allocation in Vehicular Fog Computing. , 2020, , .		8
71	Generalized User Grouping in NOMA: An Overlapping Perspective. IEEE Transactions on Wireless Communications, 2021, 20, 2876-2887.	6.1	8
72	Relay Selection in Power Splitting Based Energy-Harvesting Half-Duplex Relay Networks. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
73	Graph based resource allocation for physical layer security in full-duplex cellular networks. , 2017, , .		6
74	Secrecy-Based Resource Allocation for Vehicular Communication Networks with Outdated CSI. , 2017, , .		6
75	Interference Hypergraph-Based Resource Allocation (IHG-RA) for NOMA-Integrated V2X Networks. , 2018, , .		6
76	Full-Duplex Energy-Harvesting Relay Networks: Capacity-Maximizing Relay Selection. Journal of Communications and Information Networks, 2018, 3, 79-85.	3.5	6
77	Performance Analysis of Secure Communication in Massive MIMO with Imperfect Channel State Information. , 2018, , .		6
78	A Priority-Based Autonomous Intersection Management (AIM) Scheme for Connected Automated Vehicles (CAVs). Vehicles, 2021, 3, 533-544.	1.7	6
79	Distributed multi-priority congestion control approach for IEEE 802.11p vehicular networks. , 2012, , .		5
80	An Interference-Free Graph Based TDMA Scheduling Protocol for Vehicular Ad-Hoc Networks. , 2017, , .		5
81	Interference Hypergraph-Based 3D Matching Resource Allocation Protocol for NOMA-V2X Networks. , 2019, , .		5
82	Low-Rate Non-Intrusive Appliance Load Monitoring Based on Graph Signal Processing. , 2019, , .		5
83	Contract-Based Charging Protocol for Electric Vehicles With Vehicular Fog Computing: An Integrated Charging and Computing Perspective. IEEE Internet of Things Journal, 2023, 10, 7667-7680.	5.5	5
84	Power allocation for two-way relay system based on sequential second price auction. , 2011, , .		4
85	Relay selection based on coalitional game for secure wireless networks. IET Communications, 2014, 8, 1355-1363.	1.5	4
86	Heuristic IG-TDMA protocol for underwater acoustic sensor networks. , 2015, , .		4
87	Non-Intrusive Load Disaggregation Using Semi-Supervised Learning Method. , 2019, , .		4
88	Joint User Grouping and Power Allocation for NOMA-Based UAV Relaying Networks. , 2021, , .		4
89	Collision Recognition in Multihop IEEE 802.15.4-Compliant Wireless Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 8542-8552.	5.5	3
90	Graph-Based File Dispatching Protocol With D2D-Aided UAV-NOMA Communications in Large-Scale Networks. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
91	Electromagnetic situation analysis and judgment based on deep learning. IET Communications, 2021, 15, 1455-1466.	1.5	3
92	Hybrid NOMA User Grouping for Short Packet Communications in IoT Network with Different Types of Devices. , 2022, , .		3
93	Cooperative data dissemination via space-time network coding in vehicular networks. , 2013, , .		2
94	Sequence Set Design with Min-Max Criterion Using Majorization-Minimization. , 2019, , .		2
95	Spectral efficiency analysis for massive MIMO systems in Ricean fading channels. IET Communications, 2019, 13, 3193-3200.	1.5	2
96	UAV-Assisted Data Collection with Non-Orthogonal Multiple Access. , 2020, , .		2
97	Joint User Scheduling and UAV Trajectory Optimization for Full-Duplex UAV Relaying. , 2021, , .		2
98	An efficient multi-sensor fusion and tracking protocol in a vehicle-road collaborative system. IET Communications, 2021, 15, 2330.	1.5	2
99	Machine Learning-Based Generalized User Grouping in NOMA. , 2020, , .		2
100	Multi-Agent Reinforcement Learning-Based Autonomous Intersection Management Protocol with Attention Mechanism. , 2022, , .		2
101	Enforce truth-telling in wireless relay networks for secure communication. , 2011, , .		1
102	Frequency Resource Sharing and Allocation Scheme Based on Coalition Formation Game in Hybrid D2D-Cellular Network. International Journal of Antennas and Propagation, 2015, 2015, 1-10.	0.7	1
103	Interference-area-based resource allocation for full-duplex communications. , 2016, , .		1
104	Zero-Forcing Based Limited Feedback Hybrid Precoding in mmWave Communications. , 2019, , .		1
105	Network Beamforming in Energy-Harvesting Relay Networks. , 2019, , .		1
106	Wireless-Vehicle Combination: Advanced PHY Techniques in VCN. Wireless Networks, 2019, , 41-85.	0.3	1
107	Towards Adaptive Semantic Segmentation By Progressive Feature Refinement. , 2020, , .		1
108	Cross-Domain Semantic Segmentation of Urban Scenes via Multi-Level Feature Alignment. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
109	Occlusion-Aware Discriminative Networks for Visual Object Tracking. , 2020, , .		1
110	Hop Count Distribution for Minimum Hop-Count Routing in Finite Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5317-5332.	6.1	1
111	Capacity-based MIMO mode switching scheme between STBC and DSTBC for relay-assisted cellular networks. , 2013, , .		0
112	Cooperation via Spectrum Sharing for Physical Layer Security in Device-to-Device Communications Underlying Cellular Networks. , 2014, , .		0
113	A Cross-Layer Design for Data-Centric Storage in Underwater Acoustic Sensor Networks. , 2015, , .		0
114	Spectral Efficiency of Bidirectional Dynamic Networks with Massive MIMO. , 2016, , .		0
115	Cross-object coding and allocation (COCA) for distributed storage systems. , 2017, , .		0
116	Uplink Spectral Efficiency Analysis in Vehicle-to-Infrastructure Massive MIMO systems. , 2019, , .		0
117	Relay Selection Strategy (RSS) Design for In-Vehicle Storage (IVS) System. , 2019, , .		0
118	Wireless-Vehicle Combination: Effective MAC Designs in VCN. Wireless Networks, 2019, , 87-134.	0.3	0
119	Introduction to 5G-Enabled VCN. Wireless Networks, 2019, , 1-9.	0.3	0
120	Wireless-Vehicle Integration: VCN-Based Applications. Wireless Networks, 2019, , 135-177.	0.3	0
121	Generalized User Grouping in NOMA Based on Overlapping Coalition Formation Game. , 2020, , .		0
122	An Efficient Multi-Sensor Fusion Protocol in a Vehicle-Road Collaborative System. , 2021, , .		0
123	FPoL: Federated Learning-Enabled Collaborative Packing Leakage Detection System. , 2022, , .		0