

Nan Zhao

List of Publications by Year in descending order

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305
papers

11,575
citations

30070

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94
g-index

307
all docs

307
docs citations

307
times ranked

7520
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Channel Modeling for UAV Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2804-2821.	39.4	551
2	UAV-Assisted Emergency Networks in Disasters. IEEE Wireless Communications, 2019, 26, 45-51.	9.0	443
3	Integrated Networking, Caching, and Computing for Connected Vehicles: A Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2018, 67, 44-55.	6.3	433
4	Software-Defined Networks with Mobile Edge Computing and Caching for Smart Cities: A Big Data Deep Reinforcement Learning Approach. , 2017, 55, 31-37.		295
5	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5141-5152.	9.2	277
6	UAV Trajectory Optimization for Data Offloading at the Edge of Multiple Cells. IEEE Transactions on Vehicular Technology, 2018, 67, 6732-6736.	6.3	270
7	Caching UAV Assisted Secure Transmission in Hyper-Dense Networks Based on Interference Alignment. IEEE Transactions on Communications, 2018, 66, 2281-2294.	7.8	263
8	Joint Trajectory and Precoding Optimization for UAV-Assisted NOMA Networks. IEEE Transactions on Communications, 2019, 67, 3723-3735.	7.8	236
9	Deep-Reinforcement-Learning-Based Optimization for Cache-Enabled Opportunistic Interference Alignment Wireless Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 10433-10445.	6.3	233
10	UAV-Relaying-Assisted Secure Transmission With Caching. IEEE Transactions on Communications, 2019, 67, 3140-3153.	7.8	216
11	Multiple UAVs as Relays: Multi-Hop Single Link Versus Multiple Dual-Hop Links. IEEE Transactions on Wireless Communications, 2018, 17, 6348-6359.	9.2	202
12	Adaptive Power Allocation Schemes for Spectrum Sharing in Interference-Alignment-Based Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3700-3714.	6.3	182
13	Interference Alignment and Its Applications: A Survey, Research Issues, and Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1779-1803.	39.4	163
14	Opportunistic communications in interference alignment networks with wireless power transfer. IEEE Wireless Communications, 2015, 22, 88-95.	9.0	161
15	Fog Vehicular Computing: Augmentation of Fog Computing Using Vehicular Cloud Computing. IEEE Vehicular Technology Magazine, 2017, 12, 55-64.	3.4	158
16	When UAV Meets IRS: Expanding Air-Ground Networks via Passive Reflection. IEEE Wireless Communications, 2021, 28, 164-170.	9.0	153
17	Joint Precoding Optimization for Secure SWIPT in UAV-Aided NOMA Networks. IEEE Transactions on Communications, 2020, 68, 5028-5040.	7.8	149
18	Big Data Analytics in Mobile Cellular Networks. IEEE Access, 2016, 4, 1985-1996.	4.2	140

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19	Transceiver Design and Multihop D2D for UAV IoT Coverage in Disasters. IEEE Internet of Things Journal, 2019, 6, 1803-1815.	8.7	132
20	Physical layer security issues in interference- alignment-based wireless networks. , 2016, 54, 162-168.		125
21	IRS-Assisted Secure UAV Transmission via Joint Trajectory and Beamforming Design. IEEE Transactions on Communications, 2022, 70, 1140-1152.	7.8	122
22	Placement and Power Allocation for NOMA-UAV Networks. IEEE Wireless Communications Letters, 2019, 8, 965-968.	5.0	121
23	Optimization or Alignment: Secure Primary Transmission Assisted by Secondary Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 905-917.	14.0	118
24	Security Enhancement for NOMA-UAV Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3994-4005.	6.3	116
25	Energy-efficient design for mmWave-enabled NOMA-UAV networks. Science China Information Sciences, 2021, 64, 1.	4.3	113
26	Wireless Energy Harvesting Using Signals From Multiple Fading Channels. IEEE Transactions on Communications, 2017, 65, 5027-5039.	7.8	112
27	Exploiting Interference for Energy Harvesting: A Survey, Research Issues, and Challenges. IEEE Access, 2017, 5, 10403-10421.	4.2	107
28	Wireless energy harvesting in interference alignment networks. , 2015, 53, 72-78.		104
29	Optimal Transceiver Design for SWIPT in γ -User MIMO Interference Channels. IEEE Transactions on Wireless Communications, 2016, 15, 430-445.	9.2	98
30	Communications, caching, and computing oriented small cell networks with interference alignment. , 2016, 54, 29-35.		93
31	Artificial Noise Assisted Secure Interference Networks With Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2018, 67, 1087-1098.	6.3	93
32	Green UAV communications for 6G: A survey. Chinese Journal of Aeronautics, 2022, 35, 19-34.	5.3	91
33	Energy Efficiency Optimization With SWIPT in MIMO Broadcast Channels for Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2605-2619.	8.7	88
34	Secure Social Networks in 5G Systems with Mobile Edge Computing, Caching, and Device-to-Device Communications. IEEE Wireless Communications, 2018, 25, 103-109.	9.0	87
35	Over-the-Air Computation for IoT Networks: Computing Multiple Functions With Antenna Arrays. IEEE Internet of Things Journal, 2018, 5, 5296-5306.	8.7	87
36	Exploiting Adversarial Jamming Signals for Energy Harvesting in Interference Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1267-1280.	9.2	86

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37	Interference-Alignment and Soft-Space-Reuse Based Cooperative Transmission for Multi-cell Massive MIMO Networks. IEEE Transactions on Wireless Communications, 2018, 17, 1907-1922.	9.2	86
38	SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. IEEE Internet of Things Journal, 2021, 8, 15070-15080.	8.7	82
39	Interference Alignment Based on Antenna Selection With Imperfect Channel State Information in Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 5497-5511.	6.3	81
40	Secrecy Analysis for Cooperative NOMA Networks With Multi-Antenna Full-Duplex Relay. IEEE Transactions on Communications, 2019, 67, 5574-5587.	7.8	81
41	Joint Beamforming and Jamming Optimization for Secure Transmission in MISO-NOMA Networks. IEEE Transactions on Communications, 2019, 67, 2294-2305.	7.8	77
42	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.	11.3	75
43	Robust Federated Learning With Noisy Communication. IEEE Transactions on Communications, 2020, 68, 3452-3464.	7.8	73
44	Dynamic Contract Incentive Mechanism for Cooperative Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 10970-10982.	6.3	71
45	Multi-Agent Deep Reinforcement Learning for Task Offloading in UAV-Assisted Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 6949-6960.	9.2	71
46	UAV-Enabled SWIPT in IoT Networks for Emergency Communications. IEEE Wireless Communications, 2020, 27, 140-147.	9.0	69
47	Secure NOMA-Based UAV-MEC Network Towards a Flying Eavesdropper. IEEE Transactions on Communications, 2022, 70, 3364-3376.	7.8	67
48	Outage Probability and Optimal Cache Placement for Multiple Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12373-12378.	6.3	66
49	A Novel Interference Alignment Scheme Based on Sequential Antenna Switching in Wireless Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5008-5021.	9.2	65
50	Adaptive Energy-Efficient Power Allocation in Green Interference-Alignment-Based Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 4268-4281.	6.3	62
51	Enhancing QoE-Aware Wireless Edge Caching With Software-Defined Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6912-6925.	9.2	62
52	Dynamic IoT Device Clustering and Energy Management With Hybrid NOMA Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 4622-4630.	11.3	61
53	Beamforming for Simultaneous Wireless Information and Power Transfer in Two-Way Relay Channels. IEEE Access, 2017, 5, 9235-9250.	4.2	60
54	Anti-Eavesdropping Schemes for Interference Alignment (IA)-Based Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5719-5732.	9.2	59

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55	Ant colony optimization algorithm with mutation mechanism and its applications. Expert Systems With Applications, 2010, 37, 4805-4810.	7.6	57
56	WUB-IP: A High-Precision UWB Positioning Scheme for Indoor Multiuser Applications. IEEE Systems Journal, 2019, 13, 279-288.	4.6	57
57	Joint Optimization of Cooperative Spectrum Sensing and Resource Allocation in Multi-channel Cognitive Radio Sensor Networks. Circuits, Systems, and Signal Processing, 2016, 35, 2563-2583.	2.0	56
58	UAV-Aided Air-to-Ground Cooperative Nonorthogonal Multiple Access. IEEE Internet of Things Journal, 2020, 7, 2704-2715.	8.7	55
59	Covert Communication in UAV-Assisted Air-Ground Networks. IEEE Wireless Communications, 2021, 28, 190-197.	9.0	55
60	Caching Unmanned Aerial Vehicle-Enabled Small-Cell Networks: Employing Energy-Efficient Methods That Store and Retrieve Popular Content. IEEE Vehicular Technology Magazine, 2019, 14, 71-79.	3.4	54
61	Communication-Based Train Control System Performance Optimization Using Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2017, 66, 10705-10717.	6.3	53
62	Joint 3D Trajectory Design and Time Allocation for UAV-Enabled Wireless Power Transfer Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 9265-9278.	6.3	52
63	Secure Transmission via Joint Precoding Optimization for Downlink MISO NOMA. IEEE Transactions on Vehicular Technology, 2019, 68, 7603-7615.	6.3	50
64	Beamforming and Jamming Optimization for IRS-Aided Secure NOMA Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1557-1569.	9.2	50
65	Cognitive Radio Engine Design Based on Ant Colony Optimization. Wireless Personal Communications, 2012, 65, 15-24.	2.7	49
66	Optimization of cache-enabled opportunistic interference alignment wireless networks: A big data deep reinforcement learning approach. , 2017, , .		49
67	A Novel Spectrum Sharing Scheme Assisted by Secondary NOMA Relay. IEEE Wireless Communications Letters, 2018, 7, 732-735.	5.0	49
68	Intelligent Signal Classification in Industrial Distributed Wireless Sensor Networks Based Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 4946-4956.	11.3	49
69	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Networks. , 2018, , .		47
70	Caching D2D Connections in Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12326-12338.	6.3	47
71	A robust modulation classification method using convolutional neural networks. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.7	47
72	Joint Subcarrier and Subsymbol Allocation-Based Simultaneous Wireless Information and Power Transfer for Multiuser GFDM in IoT. IEEE Internet of Things Journal, 2019, 6, 5999-6006.	8.7	47

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73	Secure Transmission via Beamforming Optimization for NOMA Networks. IEEE Wireless Communications, 2020, 27, 193-199.	9.0	47
74	Uplink Precoding Optimization for NOMA Cellular-Connected UAV Networks. IEEE Transactions on Communications, 2020, 68, 1271-1283.	7.8	47
75	Hybrid Beamforming Design and Resource Allocation for UAV-Aided Wireless-Powered Mobile Edge Computing Networks With NOMA. IEEE Journal on Selected Areas in Communications, 2021, 39, 3271-3286.	14.0	47
76	Distributed Few-Shot Learning for Intelligent Recognition of Communication Jamming. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 395-405.	10.8	47
77	Energy Efficiency Optimization in SWIPT Enabled WSNs for Smart Agriculture. IEEE Transactions on Industrial Informatics, 2021, 17, 4335-4344.	11.3	46
78	Energy Efficiency Optimization for CoMP-SWIPT Heterogeneous Networks. IEEE Transactions on Communications, 2018, 66, 6368-6383.	7.8	45
79	Disrupting MIMO Communications With Optimal Jamming Signal Design. IEEE Transactions on Wireless Communications, 2015, 14, 5313-5325.	9.2	44
80	Secure Primary Transmission Assisted by a Secondary Full-Duplex NOMA Relay. IEEE Transactions on Vehicular Technology, 2019, 68, 7214-7219.	6.3	44
81	Robust global motion estimation for video security based on improved k-means clustering. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 439-448.	4.9	44
82	Coordinated Direct and Relay Transmission With NOMA and Network Coding in Nakagami- m Fading Channels. IEEE Transactions on Communications, 2021, 69, 207-222.	7.8	44
83	Joint 3D Trajectory and Power Optimization for UAV-Aided mmWave MIMO-NOMA Networks. IEEE Transactions on Communications, 2021, 69, 2346-2358.	7.8	44
84	Power-Constrained Edge Computing With Maximum Processing Capacity for IoT Networks. IEEE Internet of Things Journal, 2019, 6, 4330-4343.	8.7	43
85	A nonlinear ultrasonic method for real-time bolt looseness monitoring using PZT transducer-enabled vibro-acoustic modulation. Journal of Intelligent Material Systems and Structures, 2020, 31, 364-376.	2.5	42
86	Multi-Agent Deep Reinforcement Learning for Trajectory Design and Power Allocation in Multi-UAV Networks. IEEE Access, 2020, 8, 139670-139679.	4.2	40
87	Power Consumption Minimization of UAV Relay in NOMA Networks. IEEE Wireless Communications Letters, 2020, 9, 666-670.	5.0	39
88	NOMA-based UAV-aided networks for emergency communications. China Communications, 2020, 17, 54-66.	3.2	39
89	Enhancing Video Rate Adaptation With Mobile Edge Computing and Caching in Software-Defined Mobile Networks. IEEE Transactions on Wireless Communications, 2018, 17, 7013-7026.	9.2	38
90	Secure Transmission for Multi-UAV-Assisted Mobile Edge Computing Based on Reinforcement Learning. IEEE Transactions on Network Science and Engineering, 2023, 10, 1270-1282.	6.4	38

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91	Human Localization Using Multi-Source Heterogeneous Data in Indoor Environments. IEEE Access, 2017, 5, 812-822.	4.2	37
92	Spectrum Sensing Based on Maximum Generalized Correntropy Under Symmetric Alpha Stable Noise. IEEE Transactions on Vehicular Technology, 2019, 68, 10262-10266.	6.3	36
93	Computation Offloading for Edge-Assisted Federated Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 9330-9344.	6.3	36
94	Contract design for relay incentive mechanism under dual asymmetric information in cooperative networks. Wireless Networks, 2018, 24, 3029-3044.	3.0	34
95	Radio Frequency Fingerprint Collaborative Intelligent Identification Using Incremental Learning. IEEE Transactions on Network Science and Engineering, 2022, 9, 3222-3233.	6.4	34
96	UAV-Relayed Covert Communication Towards a Flying Warden. IEEE Transactions on Communications, 2021, 69, 7659-7672.	7.8	33
97	Optimal Transceiver Design for Interference Alignment Based Cognitive Radio Networks. IEEE Communications Letters, 2015, 19, 1442-1445.	4.1	32
98	Base Station Selection for Massive MIMO Networks With Two-Stage Precoding. IEEE Wireless Communications Letters, 2017, 6, 598-601.	5.0	32
99	Over-the-Air Computation for Cooperative Wideband Spectrum Sensing and Performance Analysis. IEEE Transactions on Vehicular Technology, 2018, 67, 10603-10614.	6.3	32
100	Data-Driven Deep Learning for Signal Classification in Industrial Cognitive Radio Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 3412-3421.	11.3	32
101	Decoupling or Learning: Joint Power Splitting and Allocation in MC-NOMA With SWIPT. IEEE Transactions on Communications, 2020, 68, 5834-5848.	7.8	31
102	Indoor WLAN Intelligent Target Intrusion Sensing Using Ray-Aided Generative Adversarial Network. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 61-73.	4.9	31
103	Interference alignment with delayed channel state information and dynamic AR-model channel prediction in wireless networks. Wireless Networks, 2015, 21, 1227-1242.	3.0	30
104	Power Allocation for Cache-Aided Small-Cell Networks With Limited Backhaul. IEEE Access, 2017, 5, 1272-1283.	4.2	30
105	Resource Allocation and Trajectory Optimization for UAV-Enabled Multi-User Covert Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1989-1994.	6.3	30
106	A Novel Two-Stage Entropy-Based Robust Cooperative Spectrum Sensing Scheme with Two-Bit Decision in Cognitive Radio. Wireless Personal Communications, 2013, 69, 1551-1565.	2.7	29
107	Antijamming Schemes for Interference-Alignment-Based Wireless Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 1271-1283.	6.3	29
108	Population declining ant colony optimization algorithm and its applications. Expert Systems With Applications, 2009, 36, 6276-6281.	7.6	28

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109	Energy-efficient cooperative spectrum sensing schemes for cognitive radio networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013, 2013, .	2.4	28
110	Deep Reinforcement Learning (DRL)-based Resource Management in Software-Defined and Virtualized Vehicular Ad Hoc Networks. , 2017, , .		27
111	Securing Aerial-Ground Transmission for NOMA-UAV Networks. <i>IEEE Network</i> , 2020, 34, 171-177.	6.9	27
112	Location Parameter Estimation of Moving Aerial Target in Space-Air-Ground-Integrated Networks-Based IoV. <i>IEEE Internet of Things Journal</i> , 2022, 9, 5696-5707.	8.7	26
113	Multi-Antenna Covert Communication via Full-Duplex Jamming Against a Warden With Uncertain Locations. <i>IEEE Transactions on Wireless Communications</i> , 2021, 20, 5467-5480.	9.2	26
114	Joint Location and Transmit Power Optimization for NOMA-UAV Networks via Updating Decoding Order. <i>IEEE Wireless Communications Letters</i> , 2021, 10, 136-140.	5.0	25
115	A Novel Energy Detection Algorithm for Spectrum Sensing in Cognitive Radio. <i>Information Technology Journal</i> , 2010, 9, 1659-1664.	0.3	25
116	Time-Varying Massive MIMO Channel Estimation: Capturing, Reconstruction, and Restoration. <i>IEEE Transactions on Communications</i> , 2019, 67, 7558-7572.	7.8	24
117	Learn to Coloring: Fast Response to Perturbation in UAV-Assisted Disaster Relief Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 3505-3509.	6.3	24
118	Intelligent passive detection of aerial target in space-air-ground integrated networks. <i>China Communications</i> , 2022, 19, 52-63.	3.2	24
119	Resource Allocation in Software-Defined and Information-Centric Vehicular Networks with Mobile Edge Computing. , 2017, , .		23
120	Energy-efficient resource allocation in software-defined mobile networks with mobile edge computing and caching. , 2017, , .		23
121	Spectrum Trading for Satellite Communication Systems with Dynamic Bargaining. <i>IEEE Transactions on Communications</i> , 2018, , 1-1.	7.8	23
122	Secure Transmission via Power Allocation in NOMA-UAV Networks With Circular Trajectory. <i>IEEE Transactions on Vehicular Technology</i> , 2020, 69, 10033-10045.	6.3	23
123	Angle-Domain NOMA Over Multicell Millimeter Wave Massive MIMO Networks. <i>IEEE Transactions on Communications</i> , 2020, 68, 2277-2292.	7.8	23
124	Robust H ₂ Power Control for CDMA Systems in User-Centric and Network-Centric Manners. <i>ETRI Journal</i> , 2009, 31, 399-407.	2.0	20
125	Adaptive Aggregate Transmission for Device-to-Multi-Device Aided Cooperative NOMA Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2022, 40, 1355-1370.	14.0	20
126	A population declining mutated ant colony optimization multiuser detector for MC-CDMA. <i>IEEE Communications Letters</i> , 2010, 14, 497-499.	4.1	19

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127	An energy-efficient cooperative spectrum sensing scheme for cognitive radio networks. , 2012, , .		19
128	Simultaneous wireless information and power transfer in interference alignment networks. , 2014, , .		19
129	UAV-Aided Covert Communication With a Multi-Antenna Jammer. IEEE Transactions on Vehicular Technology, 2021, 70, 11619-11631.	6.3	19
130	UAV-Assisted Time-Efficient Data Collection via Uplink NOMA. IEEE Transactions on Communications, 2021, 69, 7851-7863.	7.8	19
131	Energy-Efficiency Optimization for D2D Communications Underlying UAV-Assisted Industrial IoT Networks With SWIPT. IEEE Internet of Things Journal, 2023, 10, 1990-2002.	8.7	19
132	2-D DOA Robust Estimation of Echo Signals Based on Multiple Satellites Passive Radar in the Presence of Alpha Stable Distribution Noise. IEEE Access, 2019, 7, 16032-16042.	4.2	18
133	Robust Design for Massive CSI Acquisition in Analog Function Computation Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 2361-2373.	6.3	18
134	Computing and Relaying: Utilizing Mobile Edge Computing for P2P Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 1582-1594.	6.3	18
135	Secrecy Analysis of UAV-Based mmWave Relaying Networks. IEEE Transactions on Wireless Communications, 2021, 20, 4990-5002.	9.2	18
136	Multiuser-diversity-based interference alignment in cognitive radio networks. AEU - International Journal of Electronics and Communications, 2016, 70, 617-628.	2.9	17
137	To Align or Not to Align: Topology Management in Asymmetric Interference Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7164-7177.	6.3	17
138	Privacy Preservation via Beamforming for NOMA. IEEE Transactions on Wireless Communications, 2019, 18, 3599-3612.	9.2	17
139	Feasibility Analysis and Clustering for Interference Alignment in Full-Duplex-Based Small Cell Networks. IEEE Transactions on Communications, 2019, 67, 807-819.	7.8	17
140	Interference Alignment With Adaptive Power Allocation in Full-Duplex-Enabled Small Cell Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 3010-3015.	6.3	17
141	Robust Power Control for Cognitive Radio in Spectrum Underlay Networks. KSII Transactions on Internet and Information Systems, 2011, 5, .	0.3	17
142	UAV Relay Assisted Cooperative Jamming for Covert Communications Over Rician Fading. IEEE Transactions on Vehicular Technology, 2022, 71, 7936-7941.	6.3	17
143	Pattern Division for Massive MIMO Networks With Two-Stage Precoding. IEEE Communications Letters, 2017, 21, 1665-1668.	4.1	16
144	Proactive Jamming Toward Interference Alignment Networks: Beneficial and Adversarial Aspects. IEEE Systems Journal, 2019, 13, 412-423.	4.6	16

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145	Security Enhancement Using a Novel Two-Slot Cooperative NOMA Scheme. IEEE Transactions on Vehicular Technology, 2020, 69, 3470-3475.	6.3	16
146	Efficient Energy and Delay Tradeoff for Vessel Communications in SDN Based Maritime Wireless Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3800-3812.	8.0	16
147	Joint Altitude and Hybrid Beamforming Precoding Optimization for UAV-Enabled Multiuser mmWave MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 1713-1725.	6.3	16
148	Attacking Spectrum Sensing With Adversarial Deep Learning in Cognitive Radio-Enabled Internet of Things. IEEE Transactions on Reliability, 2023, 72, 431-444.	4.6	16
149	Learning-Based User Association for Dual-UAV Enabled Wireless Networks With D2D Connections. IEEE Access, 2019, 7, 30672-30682.	4.2	15
150	Massive MIMO Channel Estimation Over the mmWave Systems Through Parameters Learning. IEEE Communications Letters, 2019, 23, 672-675.	4.1	15
151	Resource Allocation for URLLC-Oriented Two-Way UAV Relaying. IEEE Transactions on Vehicular Technology, 2022, 71, 3344-3349.	6.3	15
152	Interference alignment based on channel prediction with delayed channel state information. , 2012, , .		14
153	Iterative LMMSE Individual Channel Estimation Over Relay Networks With Multiple Antennas. IEEE Transactions on Vehicular Technology, 2018, 67, 423-435.	6.3	14
154	Improving Spectrum Management for Satellite Communication Systems With Hunger Marketing. IEEE Wireless Communications Letters, 2019, 8, 797-800.	5.0	14
155	Performance Analysis of Spatial Modulation Aided NOMA With Full-Duplex Relay. IEEE Transactions on Vehicular Technology, 2020, 69, 5683-5687.	6.3	14
156	Dual-UAV Enabled Secure Data Collection With Propulsion Limitation. IEEE Transactions on Wireless Communications, 2021, 20, 7445-7459.	9.2	14
157	Green data transmission in power line communications. , 2012, , .		13
158	Power Optimization for Enhancing Secrecy of Cooperative User Relaying NOMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 8008-8012.	6.3	13
159	Security Enhanced Content Sharing in Social IoT: A Directed Hypergraph-Based Learning Scheme. IEEE Transactions on Vehicular Technology, 2020, 69, 4412-4425.	6.3	13
160	Cascade neural network-based joint sampling and reconstruction for image compressed sensing. Signal, Image and Video Processing, 2022, 16, 47-54.	2.7	13
161	Intelligent Reflecting Surface Assisted Interference Mitigation for Cellular-Connected UAV. IEEE Wireless Communications Letters, 2022, 11, 1708-1712.	5.0	13
162	Radio Frequency Fingerprint Collaborative Intelligent Blind Identification for Green Radios. IEEE Transactions on Green Communications and Networking, 2023, 7, 940-949.	5.5	13

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163	Antenna selection and power splitting for simultaneous wireless information and power transfer in interference alignment networks. , 2014, , .		12
164	DOA Robust Estimation of Echo Signals Based on Deep Learning Networks With Multiple Type Illuminators of Opportunity. IEEE Access, 2020, 8, 14809-14819.	4.2	12
165	Secrecy Analysis in NOMA Full-Duplex Relaying Networks With Artificial Jamming. IEEE Transactions on Vehicular Technology, 2021, 70, 8781-8794.	6.3	12
166	A hybrid ant colony optimization algorithm for optimal multiuser detection in DS-UWB system. Expert Systems With Applications, 2012, 39, 5279-5285.	7.6	11
167	Communicating or Computing Over the MAC: Function-Centric Wireless Networks. IEEE Transactions on Communications, 2019, 67, 6127-6138.	7.8	11
168	Computation Over Wide-Band Multi-Access Channels: Achievable Rates Through Sub-Function Allocation. IEEE Transactions on Wireless Communications, 2019, 18, 3713-3725.	9.2	11
169	Spectral Efficiency Enhancement in Satellite Mobile Communications: A Game-Theoretical Approach. IEEE Wireless Communications, 2020, 27, 200-205.	9.0	11
170	Popular Matching for Security-Enhanced Resource Allocation in Social Internet of Flying Things. IEEE Transactions on Communications, 2020, 68, 5087-5101.	7.8	11
171	Computation Over MAC: Achievable Function Rate Maximization in Wireless Networks. IEEE Transactions on Communications, 2020, 68, 5446-5459.	7.8	11
172	A Novel Joint Spatial-Code Clustered Interference Alignment Scheme for Large-Scale Wireless Sensor Networks. Sensors, 2015, 15, 1964-1997.	3.8	10
173	Using Multiple UAVs as Relays for Reliable Communications. , 2018, , .		10
174	Performance of SWIPT for Full-Duplex Relay System With Co-Channel Interference. IEEE Transactions on Vehicular Technology, 2020, 69, 2311-2315.	6.3	10
175	Analog"Digital Hybrid Transceiver Optimization for Data Aggregation in IoT Networks. IEEE Internet of Things Journal, 2020, 7, 11262-11275.	8.7	10
176	Cooperative SM-Based NOMA Scheme With SWIPT. IEEE Transactions on Vehicular Technology, 2021, 70, 6195-6199.	6.3	10
177	A Novel Interference Alignment Scheme With a Full-Duplex MIMO Relay. IEEE Communications Letters, 2015, 19, 1798-1801.	4.1	9
178	UAV-Aided NOMA Networks with Optimization of Trajectory and Precoding. , 2018, , .		9
179	A Reinforcement Learning Approach for D2D-Assisted Cache-Enabled HetNets. , 2019, , .		9
180	NOMA-Enhanced Computation Over Multi-Access Channels. IEEE Transactions on Wireless Communications, 2020, 19, 2252-2267.	9.2	9

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