Nan Zhao

List of Publications by Year
in descending order

305 papers	11,575 citations	30070 54 h-index	39675 94 g-index
307 all docs	307 docs citations	307 times ranked	7520 citing authors

#	Article	IF	Citations
1	Energy-Efficiency Optimization for D2D Communications Underlaying UAV-Assisted Industrial IoT Networks With SWIPT. IEEE Internet of Things Journal, 2023, 10, 1990-2002.	8.7	19
2	Joint Trajectory and Power Optimization for Jamming-Aided NOMA-UAV Secure Networks. IEEE Systems Journal, 2023, 17, 732-743.	4.6	9
3	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
4	Radio Frequency Fingerprint Collaborative Intelligent Blind Identification for Green Radios. IEEE Transactions on Green Communications and Networking, 2023, 7, 940-949.	5.5	13
5	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
6	Radio Frequency Fingerprint Collaborative Intelligent Identification Using Incremental Learning. IEEE Transactions on Network Science and Engineering, 2022, 9, 3222-3233.	6.4	34
7	Beamforming and Jamming Optimization for IRS-Aided Secure NOMA Networks. IEEE Transactions on Wireless Communications, 2022, 21, 1557-1569.	9.2	50
8	Location Parameter Estimation of Moving Aerial Target in Spaceâ€“Airâ€“Ground-Integrated Networks-Based IoV. IEEE Internet of Things Journal, 2022, 9, 5696-5707.	8.7	26
9	Green UAV communications for 6G: A survey. Chinese Journal of Aeronautics, 2022, 35, 19-34.	5.3	91
10	Cascade neural network-based joint sampling and reconstruction for image compressed sensing. Signal, Image and Video Processing, 2022, 16, 47-54.	2.7	13
11	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
12	Joint Altitude and Hybrid Beamspace Precoding Optimization for UAV-Enabled Multiuser mmWave MIMO System. IEEE Transactions on Vehicular Technology, 2022, 71, 1713-1725.	6.3	16
13	Extreme Eigenvalues-Based Detectors for Spectrum Sensing in Cognitive Radio Networks. IEEE Transactions on Communications, 2022, 70, 538-551.	7.8	8
14	Reliable Detection of Transmit-Antenna Number for MIMO Systems in Cognitive Radio-Enabled Internet of Things. IEEE Internet of Things Journal, 2022, 9, 11324-11335.	8.7	3
15	Joint User Grouping and Power Optimization for Secure mmWave-NOMA Systems. IEEE Transactions on Wireless Communications, 2022, 21, 3307-3320.	9.2	6
16	IRS-Assisted Secure UAV Transmission via Joint Trajectory and Beamforming Design. IEEE Transactions on Communications, 2022, 70, 1140-1152.	7.8	122
17	A Cost-Efficient Skipping Based Spectrum Sensing Scheme Via Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 2220-2224.	6.3	4
18	Transmit Antenna Number Identification for MIMO Cognitive Radio Systems in the Presence of Alpha-Stable Noise. IEEE Transactions on Vehicular Technology, 2022, 71, 2798-2808.	6.3	0

#	Article	IF	Citations
19	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
20	Intelligent passive detection of aerial target in space-air-ground integrated networks. China Communications, 2022, 19, 52-63.	3.2	24
21	Adaptive Aggregate Transmission for Device-to-Multi-Device Aided Cooperative NOMA Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 1355-1370.	14.0	20
22	Resource Allocation for URLLC-Oriented Two-Way UAV Relaying. IEEE Transactions on Vehicular Technology, 2022, 71, 3344-3349.	6.3	15
23	UAV Relay Assisted Cooperative Jamming for Covert Communications Over Rician Fading. IEEE Transactions on Vehicular Technology, 2022, 71, 7936-7941.	6.3	17
24	Hierarchical Coded Matrix Multiplication in Heterogeneous Multihop Networks. IEEE Transactions on Communications, 2022, 70, 3597-3612.	7.8	2
25	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
26	UAV-Assisted Edge Caching Under Uncertain Demand: A Data-Driven Distributionally Robust Joint Strategy. IEEE Transactions on Communications, 2022, 70, 3499-3511.	7.8	9
27	Secure NOMA-Based UAV-MEC Network Towards a Flying Eavesdropper. IEEE Transactions on Communications, 2022, 70, 3364-3376.	7.8	67
28	Novel kinematic model of a SCARA-type robot with bi-directional angular positioning deviation of rotary axes. International Journal of Advanced Manufacturing Technology, 2022, 120, 4901-4915.	3.0	3
29	Interference Management of Analog Function Computation in Multicluster Networks. IEEE Transactions on Communications, 2022, 70, 4607-4623.	7.8	3
30	Proactive Dynamic Spectrum Sharing for URLLC Services Under Uncertain Environment via Deep Reinforcement Learning. , 2022, , .		0
31	Intelligent Reflecting Surface Assisted Interference Mitigation for Cellular-Connected UAV. IEEE Wireless Communications Letters, 2022, 11, 1708-1712.	5.0	13
32	Adversarial Attacks on Deep Neural Networks Based Modulation Recognition. , 2022, , .		2
33	Placement Optimization of UAV Relaying for Covert Communication. IEEE Transactions on Vehicular Technology, 2022, 71, 12327-12332.	6.3	2
34	Dynamic incentive mechanism in mobile crowdsourcing networks by combining reputation and contract theory. International Journal of Distributed Sensor Networks, 2022, 18, 155013292211043.	2.2	2
35	SWIPT Cooperative Spectrum Sharing for 6G-Enabled Cognitive IoT Network. IEEE Internet of Things Journal, 2021, 8, 15070-15080.	8.7	82
36	Data-Driven Deep Learning for Signal Classification in Industrial Cognitive Radio Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 3412-3421.	11.3	32

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37	Joint Location and Transmit Power Optimization for NOMA-UAV Networks via Updating Decoding Order. IEEE Wireless Communications Letters, 2021, 10, 136-140.	5.0	25
38	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
39	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
40	UAV-Relayed Covert Communication Towards a Flying Warden. IEEE Transactions on Communications, 2021, 69, 7659-7672.	7.8	33
41	Impact and Calibration of Nonlinear Reciprocity Mismatch in Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 6418-6435.	9.2	8
42	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
43	UAV-Aided Covert Communication With a Multi-Antenna Jammer. IEEE Transactions on Vehicular Technology, 2021, 70, 11619-11631.	6.3	19
44	Joint Sparse Observation and Coding Design for Multiple Phenomena Monitoring. IEEE Transactions on Communications, 2021, 69, 6987-7002.	7.8	1
45	UAV-Assisted Time-Efficient Data Collection via Uplink NOMA. IEEE Transactions on Communications, 2021, 69, 7851-7863.	7.8	19
46	Computation Over Multi-Access Channels: Multi-Hop Implementation and Resource Allocation. IEEE Transactions on Communications, 2021, 69, 1038-1052.	7.8	8
47	Resource Allocation and Trajectory Optimization for UAV-Enabled Multi-User Covert Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1989-1994.	6.3	30
48	Time-Efficient Uplink Data Collection for UAV-assisted NOMA networks. , 2021, , .		2
49	Secrecy Analysis for NOMA networks With a Full-Duplex Jamming Relay. , 2021, , .		2
50	Energy-efficient design for mmWave-enabled NOMA-UAV networks. Science China Information Sciences, 2021, 64, 1.	4.3	113
51	Joint 3D Trajectory and Power Optimization for UAV-Aided mmWave MIMO-NOMA Networks. IEEE Transactions on Communications, 2021, 69, 2346-2358.	7.8	44
52	Multi-Antenna Covert Communication With Jamming in the Presence of a Mobile Warden. , 2021, , .		2
53	Peak-to-Average Power Ratio Reduction for High-Mobility Massive MIMO With Angle-Domain Doppler Suppression. IEEE Wireless Communications Letters, 2021, 10, 735-739.	5.0	1
54	Cooperative UAV-Assisted Secure Uplink Communications With Propulsion Power Limitation. , 2021, , .		2

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55	Lightweight Continuous Authentication via Intelligently Arranged Pseudo-Random Access in 5G-and-Beyond. IEEE Transactions on Communications, 2021, 69, 4011-4023.	7.8	8
56	Cooperative SM-Based NOMA Scheme With SWIPT. IEEE Transactions on Vehicular Technology, 2021, 70, 6195-6199.	6.3	10
57	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
58	A Deep Learning-Based Approach to Resource Allocation in UAV-aided Wireless Powered MEC Networks. , 2021, , .		6
59	Secure Analysis in UAV-Based mmWave Relaying Networks with Cooperative Jamming. , 2021, , .		2
60	Energy Efficiency Optimization in SWIPT Enabled WSNs for Smart Agriculture. IEEE Transactions on Industrial Informatics, 2021, 17, 4335-4344.	11.3	46
61	UAV-Aided Multi-Antenna Covert Communication Against Multiple Wardens. , 2021, , .		7
62	Toward Optimal Rate-Delay Tradeoff for Computation Over Multiple Access Channel. IEEE Transactions on Communications, 2021, 69, 4335-4346.	7.8	6
63	Multi-Antenna Covert Communication via Full-Duplex Jamming Against a Warden With Uncertain Locations. IEEE Transactions on Wireless Communications, 2021, 20, 5467-5480.	9.2	26
64	Secrecy Analysis of UAV-Based mmWave Relaying Networks. IEEE Transactions on Wireless Communications, 2021, 20, 4990-5002.	9.2	18
65	Covert Communication in UAV-Assisted Air-Ground Networks. IEEE Wireless Communications, 2021, 28, 190-197.	9.0	55
66	Secrecy Analysis in NOMA Full-Duplex Relaying Networks With Artificial Jamming. IEEE Transactions on Vehicular Technology, 2021, 70, 8781-8794.	6.3	12
67	Computation Offloading for Edge-Assisted Federated Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 9330-9344.	6.3	36
68	Special Issue on Unmanned Aerial Vehicle (UAV)-Enabled Green Communications and Networking. IEEE Transactions on Green Communications and Networking, 2021, 5, 1232-1235.	5.5	4
69	Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. IEEE Internet of Things Journal, 2021, 8, 14458-14470.	8.7	7
70	Dual-UAV Enabled Secure Data Collection With Propulsion Limitation. IEEE Transactions on Wireless Communications, 2021, 20, 7445-7459.	9.2	14
71	When UAV Meets IRS: Expanding Air-Ground Networks via Passive Reflection. IEEE Wireless Communications, 2021, 28, 164-170.	9.0	153
72	A Proactive Joint Strategy on Trajectory and Caching for UAV-Assisted Networks: A Data-Driven Distributionally Robust Approach. , 2021, , .		3

#	Article	IF	Citations
73	Secure Beamforming Optimization for IRS-NOMA Networks via Artificial Jamming. , 2021, , .		3
74	Exploiting Aerial Computing for Air-to-Ground Coverage Enhancement. IEEE Wireless Communications, 2021, 28, 50-58.	9.0	5
75	UAV-aided Secure NOMA Transmission via Trajectory and Resource Optimization. , 2021, , .		1
76	Hybrid Beamforming Optimization for UAV-Enabled mmWave Beamspace MIMO System. , 2021, , .		1
77	Joint Trajectory and Beamforming Optimization for Secure UAV Transmission Aided by IRS. , 2021, , .		4
78	Power Optimization for Secure mmWave-NOMA Network with Hybrid SU-CU Grouping. , 2021, , .		1
79	Finite-Blocklength Multi-Antenna Covert Communication Aided By A UAV Relay. , 2021, , .		3
80	A Joint Strategy for CUAV-based Traffic Offloading via Deep Reinforcement Learning. , 2021, , .		1
81	Secure Transmission via Beamforming Optimization for NOMA Networks. IEEE Wireless Communications, 2020, 27, 193-199.	9.0	47
82	Capturing the Sparsity and Tracking the Channels for Massive MIMO Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 685-699.	6.3	5
83	Computing and Relaying: Utilizing Mobile Edge Computing for P2P Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 1582-1594.	6.3	18
84	Spectral Efficiency Enhancement in Satellite Mobile Communications: A Game-Theoretical Approach. IEEE Wireless Communications, 2020, 27, 200-205.	9.0	11
85	UAV-Aided Air-to-Ground Cooperative Nonorthogonal Multiple Access. IEEE Internet of Things Journal, 2020, 7, 2704-2715.	8.7	55
86	Performance of SWIPT for Full-Duplex Relay System With Co-Channel Interference. IEEE Transactions on Vehicular Technology, 2020, 69, 2311-2315.	6.3	10
87	A nonlinear ultrasonic method for real-time bolt looseness monitoring using PZT transducerâ€“enabled vibro-acoustic modulation. Journal of Intelligent Material Systems and Structures, 2020, 31, 364-376.	2.5	42
88	Uplink Precoding Optimization for NOMA Cellular-Connected UAV Networks. IEEE Transactions on Communications, 2020, 68, 1271-1283.	7.8	47
89	Blind Parameter Estimation of M-FSK Signals in the Presence of Alpha-Stable Noise. IEEE Transactions on Communications, 2020, 68, 7647-7659.	7.8	4
90	Securing Aerial-Ground Transmission for NOMA-UAV Networks. IEEE Network, 2020, 34, 171-177.	6.9	27

#	Article	IF	Citations
91	Multi-Agent Deep Reinforcement Learning for Trajectory Design and Power Allocation in Multi-UAV Networks. IEEE Access, 2020, 8, 139670-139679.	4.2	40
92	Power Allocation for Secure Transmission in Circular Trajectory NOMA-UAV Networks. , 2020, , .		1
93	Green Traffic Off-Loading Over Uncertain Shared Spectrums With End-to-End QoS Guarantee. IEEE Transactions on Vehicular Technology, 2020, 69, 9921-9937.	6.3	7
94	Joint Precoding Optimization for Secure SWIPT in UAV-Aided NOMA Networks. IEEE Transactions on Communications, 2020, 68, 5028-5040.	7.8	149
95	Decoupling or Learning: Joint Power Splitting and Allocation in MC-NOMA With SWIPT. IEEE Transactions on Communications, 2020, 68, 5834-5848.	7.8	31
96	Power Optimization for Enhancing Secrecy of Cooperative User Relaying NOMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 8008-8012.	6.3	13
97	Popular Matching for Security-Enhanced Resource Allocation in Social Internet of Flying Things. IEEE Transactions on Communications, 2020, 68, 5087-5101.	7.8	11
98	Analogâ€“Digital Hybrid Transceiver Optimization for Data Aggregation in IoT Networks. IEEE Internet of Things Journal, 2020, 7, 11262-11275.	8.7	10
99	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
100	Robust Federated Learning With Noisy Communication. IEEE Transactions on Communications, 2020, 68, 3452-3464.	7.8	73
101	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
102	Learn to Coloring: Fast Response to Perturbation in UAV-Assisted Disaster Relief Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3505-3509.	6.3	24
103	Performance Analysis of Spatial Modulation Aided NOMA With Full-Duplex Relay. IEEE Transactions on Vehicular Technology, 2020, 69, 5683-5687.	6.3	14
104	Relaying Systems With Reciprocity Mismatch: Impact Analysis and Calibration. IEEE Transactions on Communications, 2020, 68, 4035-4049.	7.8	6
105	Deep Learning Method for Generalized Modulation Classification under Varying Noise Condition. , 2020, , .		4
106	Guest Editorial: Special Section on Social and Cognitive Mobile Computing in Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 5377-5378.	11.3	1
107	Security Enhancement for NOMA-UAV Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3994-4005.	6.3	116
108	Computation Over MAC: Achievable Function Rate Maximization in Wireless Networks. IEEE Transactions on Communications, 2020, 68, 5446-5459.	7.8	11

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109	Secure Transmission via Power Allocation in NOMA-UAV Networks With Circular Trajectory. IEEE Transactions on Vehicular Technology, 2020, 69, 10033-10045.	6.3	23
110	UAV-Enabled SWIPT in IoT Networks for Emergency Communications. IEEE Wireless Communications, 2020, 27, 140-147.	9.0	69
111	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
112	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
113	Security Enhancement Using a Novel Two-Slot Cooperative NOMA Scheme. IEEE Transactions on Vehicular Technology, 2020, 69, 3470-3475.	6.3	16
114	NOMA-Enhanced Computation Over Multi-Access Channels. IEEE Transactions on Wireless Communications, 2020, 19, 2252-2267.	9.2	9
115	Angle-Domain NOMA Over Multicell Millimeter Wave Massive MIMO Networks. IEEE Transactions on Communications, 2020, 68, 2277-2292.	7.8	23
116	Power Consumption Minimization of UAV Relay in NOMA Networks. IEEE Wireless Communications Letters, 2020, 9, 666-670.	5.0	39
117	NOMA-based UAV-aided networks for emergency communications. China Communications, 2020, 17, 54-66.	3.2	39
118	OFDM based bidirectional multi-relay SWIPT strategy for 6G IoT networks. China Communications, 2020, 17, 80-91.	3.2	9
119	A Contract-Based Incentive Mechanism for Traffic Offloading in Two-tier Heterogeneous Networks. , 2020, , .		0
120	Traffic Off-Loading over Uncertain Shared Spectrums with End-to-End Session Guarantee. , 2020, , .		0
121	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
122	Communicating or Computing Over the MAC: Function-Centric Wireless Networks. IEEE Transactions on Communications, 2019, 67, 6127-6138.	7.8	11
123	Privacy Preservation via Beamforming for NOMA. IEEE Transactions on Wireless Communications, 2019, 18, 3599-3612.	9.2	17
124	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
125	Secure Transmission via UAV Relaying with Caching. , 2019, , .		1
126	Suppressing Interference and Power Allocation Over the Multi-Cell MIMO-NOMA Networks. IEEE Communications Letters, 2019, 23, 1397-1400.	4.1	6

#	Article	IF	Citations
127	A robust modulation classification method using convolutional neural networks. Eurasip Journal on Advances in Signal Processing, 2019, 2019, .	1.7	47
128	Artificial Jamming Assisted Secure Transmission for MISO-NOMA Networks. , 2019, , .		0
129	Joint Attitude and Power Optimization for UAV-Aided Downlink Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 12437-12442.	6.3	4
130	Maritime Opportunistic Transmission: When and How Much Can DTN Node Deliver?. , 2019, , .		2
131	Robust Design for Massive CSI Acquisition in Analog Function Computation Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 2361-2373.	6.3	18
132	Spectrum Sensing Based on Maximum Generalized Correntropy Under Symmetric Alpha Stable Noise. IEEE Transactions on Vehicular Technology, 2019, 68, 10262-10266.	6.3	36
133	Modified CramÃ©r-Rao Bound for M-FSK Signal Parameter Estimation in Cauchy and Gaussian Noise. IEEE Transactions on Vehicular Technology, 2019, 68, 10283-10288.	6.3	6
134	Queue-Stable Dynamic Compression and Transmission with Mobile Edge Computing. , 2019, , .		4
135	User Selection and Transceiver Design for Secure Transmission in MIMO Interference Networks. , 2019, , .		1
136	Time-Varying Massive MIMO Channel Estimation: Capturing, Reconstruction, and Restoration. IEEE Transactions on Communications, 2019, 67, 7558-7572.	7.8	24
137	UAV-Relaying-Assisted Secure Transmission With Caching. IEEE Transactions on Communications, 2019, 67, 3140-3153.	7.8	216
138	Joint Trajectory and Precoding Optimization for UAV-Assisted NOMA Networks. IEEE Transactions on Communications, 2019, 67, 3723-3735.	7.8	236
139	Secure Transmission for Interference Networks: User Selection and Transceiver Design. IEEE Systems Journal, 2019, 13, 2839-2850.	4.6	5
140	Improving Spectrum Management for Satellite Communication Systems With Hunger Marketing. IEEE Wireless Communications Letters, 2019, 8, 797-800.	5.0	14
141	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
142	Secure Transmission via Joint Precoding Optimization for Downlink MISO NOMA. IEEE Transactions on Vehicular Technology, 2019, 68, 7603-7615.	6.3	50
143	Solutions for adopting software defined network in practice. International Journal of Communication Systems, 2019, 32, e3990.	2.5	6
144	Secure Primary Transmission Assisted by a Secondary Full-Duplex NOMA Relay. IEEE Transactions on Vehicular Technology, 2019, 68, 7214-7219.	6.3	44

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145	Secrecy Analysis for Cooperative NOMA Networks With Multi-Antenna Full-Duplex Relay. IEEE Transactions on Communications, 2019, 67, 5574-5587.	7.8	81
146	Placement and Power Allocation for NOMA-UAV Networks. IEEE Wireless Communications Letters, 2019, 8, 965-968.	5.0	121
147	Learning-Based User Association for Dual-UAV Enabled Wireless Networks With D2D Connections. IEEE Access, 2019, 7, 30672-30682.	4.2	15
148	Massive MIMO Channel Estimation Over the mmWave Systems Through Parameters Learning. IEEE Communications Letters, 2019, 23, 672-675.	4.1	15
149	UAV-Assisted Emergency Networks in Disasters. IEEE Wireless Communications, 2019, 26, 45-51.	9.0	443
150	A Reinforcement Learning Approach for D2D-Assisted Cache-Enabled HetNets. , 2019, , .		9
151	Joint Precoding Optimization for Secure Transmission in Downlink MISO-NOMA Networks. , 2019, , .		0
152	Ieee Access Special Section Editorial: Cloud and Big Data-Based Next-Generation Cognitive Radio Networks. IEEE Access, 2019, 7, 180354-180360.	4.2	0
153	Secure Transmission for UAV-Aided NOMA Networks with SWIPT via Precoding Optimization. , 2019, , .		2
154	Full-Duplex Relay Assisted Secure Transmission for NOMA Networks. , 2019, , .		5
155	Learning-Based User Association in Multi-UAV Emergency Networks with Ground D2D. , 2019, , .		5
156	Precoding Optimization for NOMA UAV with Cellular Connections. , 2019, , .		1
157	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
158	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
159	Transceiver Design and Multihop D2D for UAV IoT Coverage in Disasters. IEEE Internet of Things Journal, 2019, 6, 1803-1815.	8.7	132
160	Joint Beamforming and Jamming Optimization for Secure Transmission in MISO-NOMA Networks. IEEE Transactions on Communications, 2019, 67, 2294-2305.	7.8	77
161	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
162	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

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163	Power-Constrained Edge Computing With Maximum Processing Capacity for IoT Networks. IEEE Internet of Things Journal, 2019, 6, 4330-4343.	8.7	43
164	WUB-IP: A High-Precision UWB Positioning Scheme for Indoor Multiuser Applications. IEEE Systems Journal, 2019, 13, 279-288.	4.6	57
165	Proactive Jamming Toward Interference Alignment Networks: Beneficial and Adversarial Aspects. IEEE Systems Journal, 2019, 13, 412-423.	4.6	16
166	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
167	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
168	Caching UAV Assisted Secure Transmission in Hyper-Dense Networks Based on Interference Alignment. IEEE Transactions on Communications, 2018, 66, 2281-2294.	7.8	263
169	Iterative LMMSE Individual Channel Estimation Over Relay Networks With Multiple Antennas. IEEE Transactions on Vehicular Technology, 2018, 67, 423-435.	6.3	14
170	Energy Analysis of Co-Channel Harvesting in Wireless Networks. IEEE Communications Letters, 2018, 22, 530-533.	4.1	3
171	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
172	Optimization or Alignment: Secure Primary Transmission Assisted by Secondary Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 905-917.	14.0	118
173	A Novel Spectrum Sharing Scheme Assisted by Secondary NOMA Relay. IEEE Wireless Communications Letters, 2018, 7, 732-735.	5.0	49
174	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
175	UAV Trajectory Optimization for Data Offloading at the Edge of Multiple Cells. IEEE Transactions on Vehicular Technology, 2018, 67, 6732-6736.	6.3	270
176	Resource Allocation in Topology Management of Asymmetric Interference Networks. IEEE Systems Journal, 2018, 12, 993-1003.	4.6	7
177	Artificial Noise Assisted Secure Interference Networks With Wireless Power Transfer. IEEE Transactions on Vehicular Technology, 2018, 67, 1087-1098.	6.3	93
178	Contract design for relay incentive mechanism under dual asymmetric information in cooperative networks. Wireless Networks, 2018, 24, 3029-3044.	3.0	34
179	Deep Reinforcement Learning for Mobile Video Offloading in Heterogeneous Cellular Networks. International Journal of Mobile Computing and Multimedia Communications, 2018, 9, 34-57.	0.5	6
180	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Networks. , 2018, , .		47

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181	UAV Coverage for Downlink in Disasters: Precoding and Multi-hop D2D. , 2018, , .		6
182	Energy-Efficient Resource Allocation in SWIPT Enabled NOMA Systems. , 2018, , .		3
183	Dense D2D-Connection Establishment via Caching in Small-Cell Networks. , 2018, , .		3
184	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
185	Over-the-Air Computation for Cooperative Wideband Spectrum Sensing and Performance Analysis. IEEE Transactions on Vehicular Technology, 2018, 67, 10603-10614.	6.3	32
186	Cooperative Video Transmission Strategies via Caching in Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12204-12217.	6.3	8
187	UAV-Aided NOMA Networks with Optimization of Trajectory and Precoding. , 2018, , .		9
188	Privacy Protection via Beamforming Optimization in MISO NOMA Networks. , 2018, , .		1
189	Secure Probabilistic Caching for Stochastic Multi-User Multi-Relay Networks. , 2018, , .		1
190	Caching D2D Connections in Small-Cell Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12326-12338.	6.3	47
191	Spectrum Trading for Satellite Communication Systems with Dynamic Bargaining. IEEE Transactions on Communications, 2018, , 1-1.	7.8	23
192	Joint optimization of power splitting and allocation for SWIPT in interference alignment networks. Physical Communication, 2018, 29, 67-77.	2.1	6
193	IEEE Access Special Section Editorial: Exploiting the Benefits of Interference in Wireless Networks: Energy Harvesting and Security. IEEE Access, 2018, 6, 30612-30616.	4.2	0
194	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
195	Caching UAV Assisted Secure Transmission in Small-Cell Networks. , 2018, , .		6
196	Secondary Transceiver Design for Secure Primary Transmission. , 2018, , .		0
197	Using Multiple UAVs as Relays for Reliable Communications. , 2018, , .		10
198	Dynamic IoT Device Clustering and Energy Management With Hybrid NOMA Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 4622-4630.	11.3	61

#	Article	IF	Citations
199	Wireless Caching Aided 5G Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-1.	1.2	0
200	A Survey of Channel Modeling for UAV Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2804-2821.	39.4	551
201	Dynamic Contract Incentive Mechanism for Cooperative Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 10970-10982.	6.3	71
202	Energy Efficiency Optimization for CoMP-SWIPT Heterogeneous Networks. IEEE Transactions on Communications, 2018, 66, 6368-6383.	7.8	45
203	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
204	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
205	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
206	Cross-Entropy Optimization Oriented Antenna Selection for Clustering Management in Multiuser MIMO Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 516-523.	0.3	0
207	Antijamming Schemes for Interference-Alignment-Based Wireless Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 1271-1283.	6.3	29
208	Human Localization Using Multi-Source Heterogeneous Data in Indoor Environments. IEEE Access, 2017, 5, 812-822.	4.2	37
209	Power Allocation for Cache-Aided Small-Cell Networks With Limited Backhaul. IEEE Access, 2017, 5, 1272-1283.	4.2	30
210	To Align or Not to Align: Topology Management in Asymmetric Interference Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7164-7177.	6.3	17
211	Collusive Eavesdropping in Interference Alignment Based Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 5549-5561.	9.2	8
212	Exploiting Interference for Energy Harvesting: A Survey, Research Issues, and Challenges. IEEE Access, 2017, 5, 10403-10421.	4.2	107
213	Disrupting Anti-Jamming Interference Alignment Sensor Networks with Optimal Signal Design. , 2017, 1, 1-4.		4
214	Pattern Division for Massive MIMO Networks With Two-Stage Precoding. IEEE Communications Letters, 2017, 21, 1665-1668.	4.1	16
215	Exploiting Adversarial Jamming Signals for Energy Harvesting in Interference Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1267-1280.	9.2	86
216	Fog Vehicular Computing: Augmentation of Fog Computing Using Vehicular Cloud Computing. IEEE Vehicular Technology Magazine, 2017, 12, 55-64.	3.4	158

#	Article	IF	Citations
217	Optimization of cache-enabled opportunistic interference alignment wireless networks: A big data deep reinforcement learning approach. , 2017, , .		49
218	Wireless Energy Harvesting Using Signals From Multiple Fading Channels. IEEE Transactions on Communications, 2017, 65, 5027-5039.	7.8	112
219	A Contract-Based Model for Multiuser Cooperative Relay in Wireless Communication Networks. Wireless Personal Communications, 2017, 96, 5105-5121.	2.7	3
220	Enhancing QoE-Aware Wireless Edge Caching With Software-Defined Wireless Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6912-6925.	9.2	62
221	Software-Defined Networks with Mobile Edge Computing and Caching for Smart Cities: A Big Data Deep Reinforcement Learning Approach. , 2017, 55, 31-37.		295
222	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
223	Communication-Based Train Control System Performance Optimization Using Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2017, 66, 10705-10717.	6.3	53
224	A Joint Multiuser Detection Scheme for UWB Sensor Networks Using Waveform Division Multiple Access. IEEE Access, 2017, 5, 11717-11726.	4.2	8
225	Base Station Selection for Massive MIMO Networks With Two-Stage Precoding. IEEE Wireless Communications Letters, 2017, 6, 598-601.	5.0	32
226	An Energy-Efficient Routing Protocol for Cognitive Radio Enabled AMI Networks in Smart Grid. , 2017, , .		4
227	Video Rate Adaptation and Traffic Engineering in Mobile Edge Computing and Caching-Enabled Wireless Networks. , 2017, , .		7
228	Resource Allocation in Software-Defined and Information-Centric Vehicular Networks with Mobile Edge Computing. , 2017, , .		23
229	Deep Reinforcement Learning (DRL)-based Resource Management in Software-Defined and Virtualized Vehicular Ad Hoc Networks. , 2017, , .		27
230	Energy-efficient resource allocation in software-defined mobile networks with mobile edge computing and caching. , 2017, , .		23
231	Nonlinear characteristic and its suppression for cosite interference cancellation system. , 2017, , .		1
232	Parameter optimization and design of forward gain for cosite interference cancellation system. , 2017, , .		1
233	A cooperative video-streaming transmission strategy in information-centric networks. , 2017, , .		2
234	Contract-Based Incentive Mechanism for Mobile Crowdsourcing Networks. Algorithms, 2017, 10, 104.	2.1	5

#	Article	IF	Citations
235	Multimedia Information Publishing Platform based on Server Cluster and Internet of Screens. , 2017, , .		0
236	Interference cancellation for two interferences with single co-site interference cancellation system. , 2017, , .		0
237	Internal Collusive Eavesdropping of Interference Alignment Networks. , 2017, , .		1
238	Beneficial jamming design for interference alignment networks. , 2017, , .		1
239	Power Allocation for Interference Alignment Networks Based on Caching. , 2017, , .		2
240	Beamforming for Simultaneous Wireless Information and Power Transfer in Two-Way Relay Channels. IEEE Access, 2017, 5, 9235-9250.	4.2	60
241	Wireless energy harvesting in interference alignment networks with adversarial jammers. , 2016, , .		4
242	An anti-eavesdropping interference alignment scheme with wireless power transfer. , 2016, , .		2
243	Anti-Eavesdropping Schemes for Interference Alignment (IA)-Based Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5719-5732.	9.2	59
244	Interference Alignment and Its Applications: A Survey, Research Issues, and Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1779-1803.	39.4	163
245	Incentive Mechanisms for Cooperative Wireless Networks with Adverse Selection and Moral Hazard. International Journal of Wireless Information Networks, 2016, 23, 273-282.	2.7	3
246	Communications, caching, and computing oriented small cell networks with interference alignment. , 2016, 54, 29-35.		93
247	Resource Allocation in Topology Management of Asymmetric Wireless Interference Networks. , 2016, , .		4
248	Secure Transmission in Interference Alignment (IA)-Based Networks with Artificial Noise. , 2016, , .		5
249	Physical layer security issues in interference- alignment-based wireless networks. , 2016, 54, 162-168.		125
250	A low cost structure of radio-over-fiber system compatible with WDM-PON. , 2016, , .		2
251	Enhanced M-algorithm-based maximum likelihood detectors for spatial modulation. AEU - International Journal of Electronics and Communications, 2016, 70, 1361-1366.	2.9	7
252	Big Data Analytics in Mobile Cellular Networks. IEEE Access, 2016, 4, 1985-1996.	4.2	140

#	Article	IF	Citations
253	Multiuser-diversity-based interference alignment in cognitive radio networks. AEU - International Journal of Electronics and Communications, 2016, 70, 617-628.	2.9	17
254	Optimal Transceiver Design for SWIPT in <inline-formula><tex-math notation="LaTeX">K</tex-math></inline-formula>-User MIMO Interference Channels. IEEE Transactions on Wireless Communications, 2016, 15, 430-445.	9.2	98
255	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
256	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
257	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
258	A novel signal sparse decomposition based on modulation correlation partition. Neurocomputing, 2016, 171, 736-743.	5.9	3
259	A novel anti-jamming scheme for interference alignment (IA)-based wireless networks. , 2015, , .		6
260	Experimental realization of long-haul chaotic optical secure communications. , 2015, , .		0
261	A Rapid Convergent Low Complexity Interference Alignment Algorithm for Wireless Sensor Networks. Sensors, 2015, 15, 18526-18549.	3.8	4
262	Disrupting MIMO Communications With Optimal Jamming Signal Design. IEEE Transactions on Wireless Communications, 2015, 14, 5313-5325.	9.2	44
263	Wireless energy harvesting in interference alignment networks. , 2015, 53, 72-78.		104
264	Design and development of adaptive-generalized optical transceiver module with multi-rates supporting SONET, SDH and Gigabit-Ethernet. , 2015, , .		0
265	Intelligent jamming design for disrupting DS-CDMA systems. , 2015, , .		0
266	Opportunistic communications in interference alignment networks with wireless power transfer. IEEE Wireless Communications, 2015, 22, 88-95.	9.0	161
267	A Novel Joint Spatial-Code Clustered Interference Alignment Scheme for Large-Scale Wireless Sensor Networks. Sensors, 2015, 15, 1964-1997.	3.8	10
268	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
269	Wireless power transfer based on angle switching in interference alignment wireless networks. , 2015, , .		4
270	Adaptive Energy-Efficient Power Allocation in Green Interference-Alignment-Based Wireless Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 4268-4281.	6.3	62

#	Article	IF	Citations
271	Optimal Transceiver Design for Interference Alignment Based Cognitive Radio Networks. IEEE Communications Letters, 2015, 19, 1442-1445.	4.1	32
272	A Novel Interference Alignment Scheme With a Full-Duplex MIMO Relay. IEEE Communications Letters, 2015, 19, 1798-1801.	4.1	9
273	Experimental demonstration of security-enhanced WDM-PON based on chaotic optical communications. , 2015, , .		0
274	Opportunistic interference alignment networks for simultaneous wireless information and power transfer through user selection. , 2014, , .		5
275	Spectrum-efficient topology management of asymmetric interference alignment networks. , 2014, , .		6
276	Antenna selection and power splitting for simultaneous wireless information and power transfer in interference alignment networks. , 2014, , .		12
277	Power allocation for interference alignment based cognitive radio networks. , 2014, , .		7
278	Stochastic network collection point (NCP) selection in mobile sensor networks with cooperative communications. , 2014, , .		0
279	Simultaneous wireless information and power transfer in interference alignment networks. , 2014, , .		19
280	Energy-efficient cooperative spectrum sensing schemes for cognitive radio networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	28
281	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
282	Performance improvements of interference alignment with multiuser diversity in cognitive radio networks. , 2013, , .		2
283	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
284	Frequency scheduling based interference alignment for cognitive radio networks. , 2013, , .		5
285	A novel interference alignment scheme based on antenna selection in cognitive radio networks. , 2013, , .		5
286	Experimental Investigation on Identification of Physical Defect of WDM Optical-Fiber Links Based on Chaos Theory. , 2013, , .		1
287	An energy-efficient cooperative spectrum sensing scheme for cognitive radio networks. , 2012, , .		19
288	A novel two-stage entropy-based spectrum sensing scheme in cognitive radio. , 2012, , .		1

#	Article	IF	Citations
289	Interference alignment through antenna switching to improve quality of service in wireless networks. , 2012, , .		2
290	Green data transmission in power line communications. , 2012, , .		13
291	Interference alignment based on channel prediction with delayed channel state information. , 2012, , .		14
292	Interference alignment for overlay cognitive radio based on game theory. , 2012, , .		2
293	Cognitive Radio Engine Design Based on Ant Colony Optimization. Wireless Personal Communications, 2012, 65, 15-24.	2.7	49
294	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
295	Population Declining Ant Colony Optimization Multiuser Detection in Asynchronous CDMA Communications. Wireless Personal Communications, 2012, 62, 783-792.	2.7	6
296	Robust Power Control for Cognitive Radio in Spectrum Underlay Networks. KSII Transactions on Internet and Information Systems, 2011, 5, .	0.3	17
297	Ant colony optimization algorithm with mutation mechanism and its applications. Expert Systems With Applications, 2010, 37, 4805-4810.	7.6	57
298	A population declining mutated ant colony optimization multiuser detector for MC-CDMA. IEEE Communications Letters, 2010, 14, 497-499.	4.1	19
299	A Novel Energy Detection Algorithm for Spectrum Sensing in Cognitive Radio. Information Technology Journal, 2010, 9, 1659-1664.	0.3	25
300	Population declining ant colony optimization algorithm and its applications. Expert Systems With Applications, 2009, 36, 6276-6281.	7.6	28
301	Robust H?Power Control for CDMA Systems in User-Centric and Network-Centric Manners. ETRI Journal, 2009, 31, 399-407.	2.0	20
302	A novel hyperchaotic spreading code and its application to 2D-CDMA. , 2008, , .		1
303	Stochastic Cellular Neural Network for CDMA Multiuser Detection. Lecture Notes in Computer Science, 2007, , 651-656.	1.3	5
304	A Novel Large Capacity Image Hiding Method Based on the Orthogonal Chaotic Sequences. , 2006, , .		1
305	A Multilevel Quantifying Spread Spectrum PN Sequence Based on Chaos of Cellular Neural Network. Lecture Notes in Computer Science, 2006, , 171-177.	1.3	1