

Arumugam Nallanathan

List of Publications by Year in descending order

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492
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g-index

493
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493
docs citations

493
times ranked

9626
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonorthogonal Multiple Access for 5G and Beyond. Proceedings of the IEEE, 2017, 105, 2347-2381.	21.3	961
2	Multicell MIMO Communications Relying on Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2020, 19, 5218-5233.	9.2	589
3	Optimal power allocation for fading channels in cognitive radio networks: Ergodic capacity and outage capacity. IEEE Transactions on Wireless Communications, 2009, 8, 940-950.	9.2	541
4	Intelligent Reflecting Surface Aided MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2020, 38, 1719-1734.	14.0	507
5	Wideband spectrum sensing for cognitive radio networks: a survey. IEEE Wireless Communications, 2013, 20, 74-81.	9.0	420
6	On channel estimation and optimal training design for amplify and forward relay networks. IEEE Transactions on Wireless Communications, 2008, 7, 1907-1916.	9.2	396
7	Latency Minimization for Intelligent Reflecting Surface Aided Mobile Edge Computing. IEEE Journal on Selected Areas in Communications, 2020, 38, 2666-2682.	14.0	305
8	Multi-Agent Reinforcement Learning-Based Resource Allocation for UAV Networks. IEEE Transactions on Wireless Communications, 2020, 19, 729-743.	9.2	296
9	Exploiting Full/Half-Duplex User Relaying in NOMA Systems. IEEE Transactions on Communications, 2018, 66, 560-575.	7.8	277
10	A Framework of Robust Transmission Design for IRS-Aided MISO Communications With Imperfect Cascaded Channels. IEEE Transactions on Signal Processing, 2020, 68, 5092-5106.	5.3	269
11	Residual Transceiver Hardware Impairments on Cooperative NOMA Networks. IEEE Transactions on Wireless Communications, 2020, 19, 680-695.	9.2	239
12	On the Security of Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 3790-3795.	6.3	221
13	Artificial-Noise-Aided Secure MIMO Wireless Communications via Intelligent Reflecting Surface. IEEE Transactions on Communications, 2020, 68, 7851-7866.	7.8	202
14	UAV Communications Based on Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2019, 26, 52-57.	9.0	198
15	Intelligent Reflecting Surface Aided Multigroup Multicast MISO Communication Systems. IEEE Transactions on Signal Processing, 2020, 68, 3236-3251.	5.3	198
16	Distributed Space-Time Coding for Two-Way Wireless Relay Networks. IEEE Transactions on Signal Processing, 2009, 57, 658-671.	5.3	189
17	Robust Beamforming Design for Intelligent Reflecting Surface Aided MISO Communication Systems. IEEE Wireless Communications Letters, 2020, 9, 1658-1662.	5.0	185
18	Optimal User Scheduling and Power Allocation for Millimeter Wave NOMA Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1502-1517.	9.2	181

#	ARTICLE	IF	CITATIONS
19	Non-Orthogonal Multiple Access in Large-Scale Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2667-2680.	14.0	176
20	Performance Analysis of Two Hop Amplify-and-Forward Systems with Interference at the Relay. IEEE Communications Letters, 2010, 14, 692-694.	4.1	167
21	Optimal Sensing Time and Power Allocation in Multiband Cognitive Radio Networks. IEEE Transactions on Communications, 2011, 59, 226-235.	7.8	162
22	Spectrum Allocation and Power Control for Non-Orthogonal Multiple Access in HetNets. IEEE Transactions on Wireless Communications, 2017, 16, 5825-5837.	9.2	160
23	Joint Task Assignment and Resource Allocation for D2D-Enabled Mobile-Edge Computing. IEEE Transactions on Communications, 2019, 67, 4193-4207.	7.8	152
24	Joint Blocklength and Location Optimization for URLLC-Enabled UAV Relay Systems. IEEE Communications Letters, 2019, 23, 498-501.	4.1	149
25	An Improved K-Nearest-Neighbor Indoor Localization Method Based on Spearman Distance. IEEE Signal Processing Letters, 2016, 23, 351-355.	3.6	146
26	Host-Based Intrusion Detection for VANETs: A Statistical Approach to Rogue Node Detection. IEEE Transactions on Vehicular Technology, 2016, 65, 6703-6714.	6.3	140
27	Enhancing the Capacity of Spectrum Sharing Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 3768-3779.	6.3	139
28	Performance Analysis of NOMA With Fixed Gain Relaying Over Nakagami- m Fading Channels. IEEE Access, 2017, 5, 5445-5454.	4.2	136
29	Secure Resource Allocation for OFDMA Two-Way Relay Wireless Sensor Networks Without and With Cooperative Jamming. IEEE Transactions on Industrial Informatics, 2016, 12, 1714-1725.	11.3	129
30	On the Throughput and Spectrum Sensing Enhancement of Opportunistic Spectrum Access Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2012, 11, 97-107.	9.2	123
31	Secrecy Analysis of Ambient Backscatter NOMA Systems Under I/Q Imbalance. IEEE Transactions on Vehicular Technology, 2020, 69, 12286-12290.	6.3	120
32	Robust Transmission Design for Intelligent Reflecting Surface-Aided Secure Communication Systems With Imperfect Cascaded CSI. IEEE Transactions on Wireless Communications, 2021, 20, 2487-2501.	9.2	120
33	Cognitive Amplify-and-Forward Relaying with Best Relay Selection in Non-Identical Rayleigh Fading. IEEE Communications Letters, 2013, 17, 475-478.	4.1	119
34	Sensing Time Optimization and Power Control for Energy Efficient Cognitive Small Cell With Imperfect Hybrid Spectrum Sensing. IEEE Transactions on Wireless Communications, 2017, 16, 730-743.	9.2	119
35	Joint Power and Blocklength Optimization for URLLC in a Factory Automation Scenario. IEEE Transactions on Wireless Communications, 2020, 19, 1786-1801.	9.2	115
36	Improved MUSIC Under the Coexistence of Both Circular and Noncircular Sources. IEEE Transactions on Signal Processing, 2008, 56, 3033-3038.	5.3	113

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37	Joint Altitude, Beamwidth, Location, and Bandwidth Optimization for UAV-Enabled Communications. IEEE Communications Letters, 2018, 22, 1716-1719.	4.1	112
38	Multiple-Antenna-Assisted Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2018, 25, 17-23.	9.0	109
39	Performance Analysis of FD-NOMA-Based Decentralized V2X Systems. IEEE Transactions on Communications, 2019, 67, 5024-5036.	7.8	109
40	Exploiting Interference for Energy Harvesting: A Survey, Research Issues, and Challenges. IEEE Access, 2017, 5, 10403-10421.	4.2	107
41	Modeling and Analysis of Two-Way Relay Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2018, 66, 3784-3796.	7.8	106
42	Resource Allocation for Intelligent Reflecting Surface Aided Wireless Powered Mobile Edge Computing in OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 5389-5407.	9.2	103
43	Energy Efficient Dynamic Resource Optimization in NOMA System. IEEE Transactions on Wireless Communications, 2018, 17, 5671-5683.	9.2	102
44	Wideband Spectrum Sensing With Sub-Nyquist Sampling in Cognitive Radios. IEEE Transactions on Signal Processing, 2012, 60, 6068-6073.	5.3	101
45	Angle Domain Signal Processing-Aided Channel Estimation for Indoor 60-GHz TDD/FDD Massive MIMO Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1948-1961.	14.0	93
46	Dynamic Offloading for Multiuser Multi-CAP MEC Networks: A Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 2922-2927.	6.3	93
47	Channel estimation and training design for two-way relay networks with power allocation. IEEE Transactions on Wireless Communications, 2010, 9, 2022-2032.	9.2	92
48	User Association and Resource Allocation in Unified NOMA Enabled Heterogeneous Ultra Dense Networks. , 2018, 56, 86-92.		91
49	Angle Domain Channel Estimation in Hybrid Millimeter Wave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 8165-8179.	9.2	89
50	Joint Pilot and Payload Power Allocation for Massive-MIMO-Enabled URLLC IIoT Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 816-830.	14.0	88
51	Resource Allocation in NOMA-Based Fog Radio Access Networks. IEEE Wireless Communications, 2018, 25, 110-115.	9.0	86
52	A Machine Learning Approach for Power Allocation in HetNets Considering QoS. , 2018, , .		85
53	Analyzing Grant-Free Access for URLLC Service. IEEE Journal on Selected Areas in Communications, 2021, 39, 741-755.	14.0	85
54	Energy-Efficient D2D Communications Underlying NOMA-Based Networks With Energy Harvesting. IEEE Communications Letters, 2018, 22, 914-917.	4.1	84

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55	Physical Layer Security in Three-Tier Wireless Sensor Networks: A Stochastic Geometry Approach. IEEE Transactions on Information Forensics and Security, 2016, 11, 1128-1138.	6.9	82
56	Achievable Data Rate for URLLC-Enabled UAV Systems With 3-D Channel Model. IEEE Wireless Communications Letters, 2019, 8, 1587-1590.	5.0	82
57	Resource Allocation for Secure URLLC in Mission-Critical IoT Scenarios. IEEE Transactions on Communications, 2020, 68, 5793-5807.	7.8	81
58	To Harvest and Jam: A Paradigm of Self-Sustaining Friendly Jammers for Secure AF Relaying. IEEE Transactions on Signal Processing, 2015, 63, 6616-6631.	5.3	80
59	Pilot Design Schemes for Sparse Channel Estimation in OFDM Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 1493-1505.	6.3	78
60	Spatially Random Relay Selection for Full/Half-Duplex Cooperative NOMA Networks. IEEE Transactions on Communications, 2018, 66, 3294-3308.	7.8	77
61	Deep Reinforcement Learning Based Dynamic Trajectory Control for UAV-Assisted Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2022, 21, 3536-3550.	5.8	76
62	Optimal Training Design for Channel Estimation in Decode-and-Forward Relay Networks With Individual and Total Power Constraints. IEEE Transactions on Signal Processing, 2008, 56, 5937-5949.	5.3	75
63	Physical Layer Security Jamming: Theoretical Limits and Practical Designs in Wireless Networks. IEEE Access, 2017, 5, 3603-3611.	4.2	75
64	Secure Cache-Aided Multi-Relay Networks in the Presence of Multiple Eavesdroppers. IEEE Transactions on Communications, 2019, 67, 7672-7685.	7.8	75
65	Two-way relaying networks with wireless power transfer: Policies design and throughput analysis. , 2014, , .		74
66	Performance Analysis of Non-Regenerative Massive-MIMO-NOMA Relay Systems for 5G. IEEE Transactions on Communications, 2017, 65, 4777-4790.	7.8	74
67	Reinforcement Learning for Real-Time Optimization in NB-IoT Networks. IEEE Journal on Selected Areas in Communications, 2019, 37, 1424-1440.	14.0	73
68	Cooperative Wideband Spectrum Sensing Over Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 1382-1394.	6.3	72
69	A Unified Spatial Framework for UAV-Aided MmWave Networks. IEEE Transactions on Communications, 2019, 67, 8801-8817.	7.8	72
70	UAV-Aided Multi-Way NOMA Networks With Residual Hardware Impairments. IEEE Wireless Communications Letters, 2020, 9, 1538-1542.	5.0	72
71	Analyzing Random Access Collisions in Massive IoT Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6853-6870.	9.2	71
72	Outage and Diversity of Cognitive Relaying Systems under Spectrum Sharing Environments in Nakagami-m Fading. IEEE Communications Letters, 2012, 16, 2075-2078.	4.1	70

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73	Efficient Beamforming Training for 60-GHz Millimeter-Wave Communications: A Novel Numerical Optimization Framework. IEEE Transactions on Vehicular Technology, 2014, 63, 703-717.	6.3	70
74	Blind Carrier Frequency Offset Estimation for Interleaved OFDMA Uplink. IEEE Transactions on Signal Processing, 2012, 60, 3616-3627.	5.3	69
75	Outage Behaviors of NOMA-Based Satellite Network Over Shadowed-Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 6818-6821.	6.3	69
76	Effect of Feedback Delay on Amplify-and-Forward Relay Networks With Beamforming. IEEE Transactions on Vehicular Technology, 2011, 60, 1265-1271.	6.3	68
77	Wireless Powered Cooperative Jamming for Secrecy Multi-AF Relaying Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7971-7984.	9.2	68
78	QoE-Based Resource Allocation for Multi-Cell NOMA Networks. IEEE Transactions on Wireless Communications, 2018, 17, 6160-6176.	9.2	68
79	Robust subspace blind channel estimation for cyclic prefixed MIMO OFDM systems: algorithm, identifiability and performance analysis. IEEE Journal on Selected Areas in Communications, 2008, 26, 378-388.	14.0	67
80	Overcoming the Sensing-Throughput Tradeoff in Cognitive Radio Networks. , 2010, , .		67
81	Secure NOMA-Based UAV-MEC Network Towards a Flying Eavesdropper. IEEE Transactions on Communications, 2022, 70, 3364-3376.	7.8	67
82	Joint channel and frequency offset estimation in distributed MIMO flat-fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 648-656.	9.2	66
83	Random Access Analysis for Massive IoT Networks Under a New Spatio-Temporal Model: A Stochastic Geometry Approach. IEEE Transactions on Communications, 2018, 66, 5788-5803.	7.8	66
84	Distributed Space-Time coding for Two-Way Wireless Relay Networks. , 2008, , .		65
85	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
86	Pilot Design for Sparse Channel Estimation in OFDM-Based Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 982-987.	6.3	64
87	Optimal Power Allocation for Fading Channels in Cognitive Radio Networks under Transmit and Interference Power Constraints. , 2008, , .		63
88	Deep Sensing for Future Spectrum and Location Awareness 5G Communications. IEEE Journal on Selected Areas in Communications, 2015, 33, 1331-1344.	14.0	62
89	Analyzing Large-Scale Multiuser Molecular Communication via 3-D Stochastic Geometry. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 118-133.	2.1	62
90	Adaptive Compressive Spectrum Sensing for Wideband Cognitive Radios. IEEE Communications Letters, 2012, 16, 1812-1815.	4.1	61

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91	Energy Detection Based Spectrum Sensing for Cognitive Radios Over Time-Frequency Doubly Selective Fading Channels. IEEE Transactions on Signal Processing, 2015, 63, 402-417.	5.3	61
92	Modeling and Simulation of Molecular Communication Systems with a Reversible Adsorption Receiver. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, , 1-1.	2.1	61
93	Joint Transmit Power and Placement Optimization for URLLC-Enabled UAV Relay Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8003-8007.	6.3	61
94	Blind maximum likelihood CFO estimation for OFDM systems via polynomial rooting. IEEE Signal Processing Letters, 2006, 13, 73-76.	3.6	60
95	Cache-Enabling UAV Communications: Network Deployment and Resource Allocation. IEEE Transactions on Wireless Communications, 2020, 19, 7470-7483.	9.2	59
96	A Joint Resource Allocation Scheme for Multiuser Two-Way Relay Networks. IEEE Transactions on Communications, 2011, 59, 2970-2975.	7.8	58
97	A Practical Semidynamic Clustering Scheme Using Affinity Propagation in Cooperative Picocells. IEEE Transactions on Vehicular Technology, 2015, 64, 4372-4377.	6.3	58
98	Modeling and Analysis of D2D Millimeter-Wave Networks With Poisson Cluster Processes. IEEE Transactions on Communications, 2017, 65, 5574-5588.	7.8	58
99	Blind Channel Estimation for MIMO OFDM Systems via Nonredundant Linear Precoding. IEEE Transactions on Signal Processing, 2007, 55, 784-789.	5.3	57
100	Simultaneous Wireless Information and Power Transfer in K -Tier Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5804-5818.	9.2	57
101	Integrating Communications and Control for UAV Systems: Opportunities and Challenges. IEEE Access, 2018, 6, 67519-67527.	4.2	57
102	Secure Communications in a Unified Non-Orthogonal Multiple Access Framework. IEEE Transactions on Wireless Communications, 2020, 19, 2163-2178.	9.2	57
103	User Association and Power Allocation for Multi-Cell Non-Orthogonal Multiple Access Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5284-5298.	9.2	56
104	Joint Trajectory and Communication Design for Secure UAV Networks. IEEE Communications Letters, 2019, 23, 636-639.	4.1	55
105	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
106	Blind Channel Estimation for OFDM Systems via a Generalized Precoding. IEEE Transactions on Vehicular Technology, 2007, 56, 1155-1164.	6.3	52
107	Joint Downlink/Uplink Design for Wireless Powered Networks With Interference. IEEE Access, 2017, 5, 1534-1547.	4.2	52
108	RACH Preamble Repetition in NB-IoT Network. IEEE Communications Letters, 2018, 22, 1244-1247.	4.1	52

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109	Cooperative Spectrum Sensing Strategies for Cognitive Radio Mesh Networks. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 56-67.	10.8	51
110	Security-Aware Resource Allocation With Delay Constraint for NOMA-Based Cognitive Radio Network. IEEE Transactions on Information Forensics and Security, 2018, 13, 366-376.	6.9	50
111	Relaying technologies for smart grid communications. IEEE Wireless Communications, 2012, 19, 52-59.	9.0	49
112	Two-way relay networks with wireless power transfer: design and performance analysis. IET Communications, 2016, 10, 1810-1819.	2.2	49
113	Optimal Throughput Fairness Tradeoffs for Downlink Non-Orthogonal Multiple Access Over Fading Channels. IEEE Transactions on Wireless Communications, 2018, 17, 3556-3571.	9.2	49
114	Trajectory Optimization for UAV Emergency Communication With Limited User Equipment Energy: A Safe-DQN Approach. IEEE Transactions on Green Communications and Networking, 2021, 5, 1236-1247.	5.5	49
115	Energy-Efficient Resource Allocation and Trajectory Design for UAV Relaying Systems. IEEE Transactions on Communications, 2020, 68, 6483-6498.	7.8	48
116	Packet Error Probability and Effective Throughput for Ultra-Reliable and Low-Latency UAV Communications. IEEE Transactions on Communications, 2021, 69, 73-84.	7.8	48
117	Amplify-and-Forward Relaying with Optimal and Suboptimal Transmit Antenna Selection. IEEE Transactions on Wireless Communications, 2011, 10, 1874-1885.	9.2	47
118	Caching Placement and Resource Allocation for Cache-Enabling UAV NOMA Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 12897-12911.	6.3	47
119	Resource Allocation in Uplink NOMA-IoT Networks: A Reinforcement-Learning Approach. IEEE Transactions on Wireless Communications, 2021, 20, 5083-5098.	9.2	47
120	Optimal training sequences for channel estimation in bi-directional relay networks with multiple antennas. IEEE Transactions on Communications, 2010, 58, 474-479.	7.8	46
121	Stochastic Geometry Modeling of Cellular V2X Communication Over Shared Channels. IEEE Transactions on Vehicular Technology, 2019, 68, 11873-11887.	6.3	45
122	Joint Pilot Allocation and Robust Transmission Design for Ultra-Dense User-Centric TDD C-RAN With Imperfect CSI. IEEE Transactions on Wireless Communications, 2018, 17, 2038-2053.	9.2	43
123	Modeling and Analysis of MmWave V2X Networks With Vehicular Platoon Systems. IEEE Journal on Selected Areas in Communications, 2019, 37, 2851-2866.	14.0	42
124	Learning-Based Signal Detection for MIMO Systems With Unknown Noise Statistics. IEEE Transactions on Communications, 2021, 69, 3025-3038.	7.8	42
125	Secrecy and Energy Efficiency in Massive MIMO Aided Heterogeneous C-RAN: A New Look at Interference. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1375-1389.	10.8	41
126	Opportunistic Access Point Selection for Mobile Edge Computing Networks. IEEE Transactions on Wireless Communications, 2021, 20, 695-709.	9.2	41

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127	Full-Duplex Spectrum Sharing in Cooperative Single Carrier Systems. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 68-82.	7.9	40
128	Wireless Powered Cognitive Radio Networks With Compressive Sensing and Matrix Completion. IEEE Transactions on Communications, 2017, 65, 1464-1476.	7.8	40
129	Clustered Millimeter-Wave Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2019, 67, 4350-4364.	7.8	39
130	Joint Power, Altitude, Location and Bandwidth Optimization for UAV With Underlaid D2D Communications. IEEE Wireless Communications Letters, 2019, 8, 524-527.	5.0	39
131	Spectrum Sensing for Cognitive Radios in Time-Variant Flat-Fading Channels: A Joint Estimation Approach. IEEE Transactions on Communications, 2014, 62, 2665-2680.	7.8	38
132	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
133	Dilated Convolution Based CSI Feedback Compression for Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 11216-11221.	6.3	38
134	Computational Intelligence and Deep Learning for Next-Generation Edge-Enabled Industrial IoT. IEEE Transactions on Network Science and Engineering, 2023, 10, 2881-2893.	6.4	38
135	Outdated Access Point Selection for Mobile Edge Computing With Cochannel Interference. IEEE Transactions on Vehicular Technology, 2022, 71, 7445-7455.	6.3	37
136	Scattered Pilots and Virtual Carriers Based Frequency Offset Tracking for OFDM Systems: Algorithms, Identifiability, and Performance Analysis. IEEE Transactions on Communications, 2008, 56, 619-629.	7.8	36
137	Safeguarding massive MIMO aided hetnets using physical layer security. , 2015, , .		36
138	Energy-Efficient Chance-Constrained Resource Allocation for Multicast Cognitive OFDM Network. IEEE Journal on Selected Areas in Communications, 2016, 34, 1298-1306.	14.0	36
139	Cache-Enabled HetNets With Millimeter Wave Small Cells. IEEE Transactions on Communications, 2018, 66, 5497-5511.	7.8	36
140	Amplify-and-Forward Relay Transmission with End-to-End Antenna Selection. , 2010, , .		35
141	Optimal Power Allocation for Fading Channels in Cognitive Radio Networks: Delay-Limited Capacity and Outage Capacity. IEEE Vehicular Technology Conference, 2008, , .	0.4	34
142	A Multi-Cell Beamforming Design by Uplink-Downlink Max-Min SINR Duality. IEEE Transactions on Wireless Communications, 2012, , 1-10.	9.2	34
143	Robust Radar Emitter Recognition Based on the Three-Dimensional Distribution Feature and Transfer Learning. Sensors, 2016, 16, 289.	3.8	33
144	Full-Duplex Small Cells for Next Generation Heterogeneous Cellular Networks: A Case Study of Outage and Rate Coverage Analysis. IEEE Access, 2017, 5, 8025-8038.	4.2	33

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145	Robust Beamforming Design for Ultra-Dense User-Centric C-RAN in the Face of Realistic Pilot Contamination and Limited Feedback. IEEE Transactions on Wireless Communications, 2019, 18, 780-795.	9.2	33
146	Throughput Maximization for Full-Duplex UAV Aided Small Cell Wireless Systems. IEEE Wireless Communications Letters, 2020, 9, 475-479.	5.0	33
147	Clustered UAV Networks With Millimeter Wave Communications: A Stochastic Geometry View. IEEE Transactions on Communications, 2020, 68, 4342-4357.	7.8	33
148	Fixed Gain Amplify-and-Forward Relaying with Co-Channel Interference. , 2011, , .		32
149	A Bayesian Approach for Nonlinear Equalization and Signal Detection in Millimeter-Wave Communications. IEEE Transactions on Wireless Communications, 2015, 14, 3794-3809.	9.2	32
150	Massive Multiuser MIMO in Heterogeneous Cellular Networks With Full Duplex Small Cells. IEEE Transactions on Communications, 2017, 65, 4704-4719.	7.8	32
151	Weighted Sum-Rate Maximization for the Ultra-Dense User-Centric TDD C-RAN Downlink Relying on Imperfect CSI. IEEE Transactions on Wireless Communications, 2019, 18, 1182-1198.	9.2	32
152	Low-Complexity Robust Beamforming Design for IRS-Aided MISO Systems With Imperfect Channels. IEEE Communications Letters, 2021, 25, 1697-1701.	4.1	32
153	Optimizing DF Cognitive Radio Networks With Full-Duplex-Enabled Energy Access Points. IEEE Transactions on Wireless Communications, 2017, 16, 4683-4697.	9.2	31
154	Secure Mobile Edge Computing Networks in the Presence of Multiple Eavesdroppers. IEEE Transactions on Communications, 2022, 70, 500-513.	7.8	31
155	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
156	Ergodic Rate Analysis of Cooperative Ambient Backscatter Communication. IEEE Wireless Communications Letters, 2019, 8, 1679-1682.	5.0	30
157	Energy-Efficient Subchannel Matching and Power Allocation in NOMA Autonomous Driving Vehicular Networks. IEEE Wireless Communications, 2019, 26, 88-93.	9.0	30
158	Improved Cooperative Spectrum Sensing in Cognitive Radio. IEEE Vehicular Technology Conference, 2008, , .	0.4	29
159	Deep Sensing for Space-Time Doubly Selective Channels: When a Primary User Is Mobile and the Channel Is Flat Rayleigh Fading. IEEE Transactions on Signal Processing, 2016, 64, 3362-3375.	5.3	29
160	Adaptive UAV-Trajectory Optimization Under Quality of Service Constraints: A Model-Free Solution. IEEE Access, 2020, 8, 112253-112265.	4.2	29
161	Physical Layer Security in the Presence of Interference. IEEE Wireless Communications Letters, 2017, 6, 802-805.	5.0	29
162	Blind Channel Estimation for Cyclic-Prefixed Single-Carrier Systems by Exploiting Real Symbol Characteristics. IEEE Transactions on Vehicular Technology, 2007, 56, 2487-2498.	6.3	28

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163	Optimization of Cooperative Spectrum Sensing in Cognitive Radio. IEEE Transactions on Vehicular Technology, 2011, 60, 1578-1589.	6.3	28
164	Energy-efficient cooperative spectrum sensing schemes for cognitive radio networks. Eurasip Journal on Wireless Communications and Networking, 2013, 2013, .	2.4	28
165	Harvest-and-jam: Improving security for wireless energy harvesting cooperative networks. , 2014, , .		28
166	Transmit Power Pool Design for Grant-Free NOMA-IoT Networks via Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 7626-7641.	9.2	28
167	Performance of DS-UWB Multiple-Access Systems With Diversity Reception in Dense Multipath Environments. IEEE Transactions on Vehicular Technology, 2006, 55, 1269-1280.	6.3	27
168	Enabling Energy Efficient Molecular Communication via Molecule Energy Transfer. IEEE Communications Letters, 2017, 21, 254-257.	4.1	27
169	Artificial Intelligence-Based Resource Allocation in Ultradense Networks: Applying Event-Triggered Q-Learning Algorithms. IEEE Vehicular Technology Magazine, 2019, 14, 56-63.	3.4	27
170	System Optimization of Federated Learning Networks With a Constrained Latency. IEEE Transactions on Vehicular Technology, 2022, 71, 1095-1100.	6.3	27
171	Optimal Power Allocation for Multiuser Secure Communication in Cooperative Relaying Networks. IEEE Wireless Communications Letters, 2016, 5, 516-519.	5.0	26
172	Eavesdropper Localization in Random Walk Channels. IEEE Communications Letters, 2016, 20, 1776-1779.	4.1	26
173	Dynamic Computation Offloading for MIMO Mobile Edge Computing Systems With Energy Harvesting. IEEE Transactions on Vehicular Technology, 2021, 70, 5172-5177.	6.3	26
174	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
175	Efficient and Robust Cluster Identification for Ultra-wideband Propagations Inspired by Biological Ant Colony Clustering. IEEE Transactions on Communications, 2014, , 1-1.	7.8	25
176	An Energy-Efficient Full-Duplex MAC Protocol for Distributed Wireless Networks. IEEE Wireless Communications Letters, 2016, 5, 44-47.	5.0	25
177	Reed Solomon Codes for Molecular Communication With a Full Absorption Receiver. IEEE Communications Letters, 2017, 21, 1245-1248.	4.1	25
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