

Maged Elkashlan

List of Publications by Year in descending order

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141
papers

13,398
citations

34076

52
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24961

109
g-index

142
all docs

142
docs citations

142
times ranked

7071
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Non-Orthogonal Multiple Access in LTE and 5G Networks. IEEE Communications Magazine, 2017, 55, 185-191.	4.9	1,484
2	Nonorthogonal Multiple Access for 5G and Beyond. Proceedings of the IEEE, 2017, 105, 2347-2381.	16.4	961
3	Safeguarding 5G wireless communication networks using physical layer security. IEEE Communications Magazine, 2015, 53, 20-27.	4.9	838
4	Cooperative Non-orthogonal Multiple Access With Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2016, 34, 938-953.	9.7	820
5	Multicell MIMO Communications Relying on Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2020, 19, 5218-5233.	6.1	589
6	Intelligent Reflecting Surface Aided MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2020, 38, 1719-1734.	9.7	507
7	Enhancing the Physical Layer Security of Non-Orthogonal Multiple Access in Large-Scale Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1656-1672.	6.1	485
8	User Association in 5G Networks: A Survey and an Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 1018-1044.	24.8	462
9	Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Communications Magazine, 2021, 59, 14-20.	4.9	354
10	Nonorthogonal Multiple Access in Large-Scale Underlay Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 10152-10157.	3.9	307
11	Latency Minimization for Intelligent Reflecting Surface Aided Mobile Edge Computing. IEEE Journal on Selected Areas in Communications, 2020, 38, 2666-2682.	9.7	305
12	Secure Transmission with Optimal Power Allocation in Untrusted Relay Networks. IEEE Wireless Communications Letters, 2014, 3, 289-292.	3.2	247
13	Relay Selection for Security Enhancement in Cognitive Relay Networks. IEEE Wireless Communications Letters, 2015, 4, 46-49.	3.2	246
14	On the Security of Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 3790-3795.	3.9	221
15	Non-Orthogonal Multiple Access in Large-Scale Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 2667-2680.	9.7	176
16	Secure Communications for UAV-Enabled Mobile Edge Computing Systems. IEEE Transactions on Communications, 2020, 68, 376-388.	4.9	163
17	Joint Subchannel and Power Allocation for NOMA Enhanced D2D Communications. IEEE Transactions on Communications, 2017, 65, 5081-5094.	4.9	157
18	Cognitive Amplify-and-Forward Relay Networks Over Nakagami- m Fading. IEEE Transactions on Vehicular Technology, 2012, 61, 2368-2374.	3.9	155

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19	Joint Blocklength and Location Optimization for URLLC-Enabled UAV Relay Systems. IEEE Communications Letters, 2019, 23, 498-501.	2.5	149
20	Secure Transmission With Antenna Selection in MIMO Nakagami- m Fading Channels. IEEE Transactions on Wireless Communications, 2014, 13, 6054-6067.	6.1	142
21	Cognitive Relay Networks With Multiple Primary Transceivers Under Spectrum-Sharing. IEEE Signal Processing Letters, 2012, 19, 741-744.	2.1	133
22	User-Centric C-RAN Architecture for Ultra-Dense 5G Networks: Challenges and Methodologies. , 2018, 56, 14-20.		132
23	Fairness of User Clustering in MIMO Non-Orthogonal Multiple Access Systems. IEEE Communications Letters, 2016, , 1-1.	2.5	129
24	Secure Multiuser Communications in Multiple Amplify-and-Forward Relay Networks. IEEE Transactions on Communications, 2014, 62, 3299-3310.	4.9	120
25	Joint Power and Blocklength Optimization for URLLC in a Factory Automation Scenario. IEEE Transactions on Wireless Communications, 2020, 19, 1786-1801.	6.1	115
26	Joint Altitude, Beamwidth, Location, and Bandwidth Optimization for UAV-Enabled Communications. IEEE Communications Letters, 2018, 22, 1716-1719.	2.5	112
27	Physical Layer Security of Maximal Ratio Combining in Two-Wave With Diffuse Power Fading Channels. IEEE Transactions on Information Forensics and Security, 2014, 9, 247-258.	4.5	107
28	Proactive Relay Selection With Joint Impact of Hardware Impairment and Co-Channel Interference. IEEE Transactions on Communications, 2015, 63, 1594-1606.	4.9	107
29	Resource Allocation for Intelligent Reflecting Surface Aided Wireless Powered Mobile Edge Computing in OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 5389-5407.	6.1	103
30	Distributed Energy Efficient Fair User Association in Massive MIMO Enabled HetNets. IEEE Communications Letters, 2015, 19, 1770-1773.	2.5	97
31	Advanced spectrum sharing in 5G cognitive heterogeneous networks. IEEE Wireless Communications, 2016, 23, 94-101.	6.6	95
32	Outage Probability of Multiuser Relay Networks in Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2010, 59, 2120-2132.	3.9	91
33	Joint Pilot and Payload Power Allocation for Massive-MIMO-Enabled URLLC IIoT Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 816-830.	9.7	88
34	MIMO Wiretap Channels: Secure Transmission Using Transmit Antenna Selection and Receive Generalized Selection Combining. IEEE Communications Letters, 2013, 17, 1754-1757.	2.5	87
35	Active RIS Versus Passive RIS: Which is Superior With the Same Power Budget?. IEEE Communications Letters, 2022, 26, 1150-1154.	2.5	86
36	Analyzing Grant-Free Access for URLLC Service. IEEE Journal on Selected Areas in Communications, 2021, 39, 741-755.	9.7	85

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37	Energy-Efficient D2D Communications Underlying NOMA-Based Networks With Energy Harvesting. IEEE Communications Letters, 2018, 22, 914-917.	2.5	84
38	Exploiting Direct Links for Physical Layer Security in Multiuser Multirelay Networks. IEEE Transactions on Wireless Communications, 2016, 15, 3856-3867.	6.1	82
39	Physical Layer Security in Three-Tier Wireless Sensor Networks: A Stochastic Geometry Approach. IEEE Transactions on Information Forensics and Security, 2016, 11, 1128-1138.	4.5	82
40	Achievable Data Rate for URLLC-Enabled UAV Systems With 3-D Channel Model. IEEE Wireless Communications Letters, 2019, 8, 1587-1590.	3.2	82
41	Resource Allocation for Secure URLLC in Mission-Critical IoT Scenarios. IEEE Transactions on Communications, 2020, 68, 5793-5807.	4.9	81
42	Security Enhancement of Cooperative Single Carrier Systems. IEEE Transactions on Information Forensics and Security, 2015, 10, 90-103.	4.5	75
43	Two-Way Relaying With Multi-Antenna Sources: Beamforming and Antenna Selection. IEEE Transactions on Vehicular Technology, 2012, 61, 3996-4008.	3.9	72
44	Two-Dimensional Optimization on User Association and Green Energy Allocation for HetNets With Hybrid Energy Sources. IEEE Transactions on Communications, 2015, 63, 4111-4124.	4.9	66
45	Generalized Selection Combining for Cognitive Relay Networks Over Nakagami- m Fading. IEEE Transactions on Signal Processing, 2015, 63, 1993-2006.	3.2	63
46	Analyzing Large-Scale Multiuser Molecular Communication via 3-D Stochastic Geometry. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 118-133.	1.4	62
47	Power Control for Multi-Cell Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Wireless Communications, 2018, 17, 927-942.	6.1	62
48	Multiuser MIMO Relay Networks in Nakagami- m Fading Channels. IEEE Transactions on Communications, 2012, 60, 3298-3310.	4.9	61
49	Modeling and Simulation of Molecular Communication Systems with a Reversible Adsorption Receiver. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2016, , 1-1.	1.4	61
50	Joint Transmit Power and Placement Optimization for URLLC-Enabled UAV Relay Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8003-8007.	3.9	61
51	Opportunistic User Association for Multi-Service HetNets Using Nash Bargaining Solution. IEEE Communications Letters, 2014, 18, 463-466.	2.5	60
52	Multiuser Cognitive Relay Networks: Joint Impact of Direct and Relay Communications. IEEE Transactions on Wireless Communications, 2014, 13, 5043-5055.	6.1	58
53	Simultaneous Wireless Information and Power Transfer in K -Tier Heterogeneous Cellular Networks. IEEE Transactions on Wireless Communications, 2016, 15, 5804-5818.	6.1	57
54	Massive MIMO in Spectrum Sharing Networks: Achievable Rate and Power Efficiency. IEEE Systems Journal, 2017, 11, 20-31.	2.9	51

#	ARTICLE	IF	CITATIONS
55	Wireless Energy Harvesting and Spectrum Sharing in Cognitive Radio. , 2014, , .		50
56	Artificial-Noise Aided Secure Transmission in Large Scale Spectrum Sharing Networks. IEEE Transactions on Communications, 2016, 64, 2116-2129.	4.9	50
57	Two-way relay networks with wireless power transfer: design and performance analysis. IET Communications, 2016, 10, 1810-1819.	1.5	49
58	Spectral and Energy Efficiency of Uplink D2D Underlaid Massive MIMO Cellular Networks. IEEE Transactions on Communications, 2017, 65, 3780-3793.	4.9	49
59	Modeling and Analysis of Wireless Power Transfer in Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2016, 64, 5290-5303.	4.9	46
60	Stochastic Learning-Based Robust Beamforming Design for RIS-Aided Millimeter-Wave Systems in the Presence of Random Blockages. IEEE Transactions on Vehicular Technology, 2021, 70, 1057-1061.	3.9	45
61	Transmit Antenna Selection for Interference Management in Cognitive Relay Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 3250-3262.	3.9	43
62	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.	6.1	43
63	4G/5G Spectrum Sharing: Efficient 5G Deployment to Serve Enhanced Mobile Broadband and Internet of Things Applications. IEEE Vehicular Technology Magazine, 2018, 13, 28-39.	2.8	43
64	Exact and Asymptotic SER of Distributed TAS/MRC in MIMO Relay Networks. IEEE Transactions on Wireless Communications, 2011, 10, 751-756.	6.1	42
65	Spectrum and Energy Efficiency in Massive MIMO Enabled HetNets: A Stochastic Geometry Approach. IEEE Communications Letters, 2015, 19, 2294-2297.	2.5	42
66	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.	7.3	41
67	Full-Duplex Spectrum Sharing in Cooperative Single Carrier Systems. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 68-82.	4.9	40
68	Clustered Millimeter-Wave Networks With Non-Orthogonal Multiple Access. IEEE Transactions on Communications, 2019, 67, 4350-4364.	4.9	39
69	Joint Power, Altitude, Location and Bandwidth Optimization for UAV With Underlaid D2D Communications. IEEE Wireless Communications Letters, 2019, 8, 524-527.	3.2	39
70	Selection Relaying with Transmit Beamforming: A Comparison of Fixed and Variable Gain Relaying. IEEE Transactions on Communications, 2011, 59, 1720-1730.	4.9	38
71	Cognitive MIMO Relay Networks With Generalized Selection Combining. IEEE Transactions on Wireless Communications, 2014, 13, 4911-4922.	6.1	37
72	Secure communication in cellular networks: The benefits of millimeter wave mobile broadband. , 2014, , .		36

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73	Safeguarding massive MIMO aided hetnets using physical layer security. , 2015, , .		36
74	Cascaded TAS/MRC in MIMO Multiuser Relay Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3829-3839.	6.1	34
75	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.	6.1	33
76	Communication-and-Computing Latency Minimization for UAV-Enabled Virtual Reality Delivery Systems. IEEE Transactions on Communications, 2021, 69, 1723-1735.	4.9	33
77	Massive Multiuser MIMO in Heterogeneous Cellular Networks With Full Duplex Small Cells. IEEE Transactions on Communications, 2017, 65, 4704-4719.	4.9	32
78	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.	6.1	32
79	Offloading Optimization for Low-Latency Secure Mobile Edge Computing Systems. IEEE Wireless Communications Letters, 2020, 9, 480-484.	3.2	29
80	Enabling Energy Efficient Molecular Communication via Molecule Energy Transfer. IEEE Communications Letters, 2017, 21, 254-257.	2.5	27
81	Physical Layer Security in Uplink NOMA Multi-Antenna Systems With Randomly Distributed Eavesdroppers. IEEE Access, 2019, 7, 70422-70435.	2.6	27
82	Optimal Power Allocation for Multiuser Secure Communication in Cooperative Relaying Networks. IEEE Wireless Communications Letters, 2016, 5, 516-519.	3.2	26
83	Low-Latency C-RAN: An Next-Generation Wireless Approach. IEEE Vehicular Technology Magazine, 2018, 13, 48-56.	2.8	26
84	On the SER of Fixed Gain Amplify-and-Forward Relaying with Beamforming in Nakagami-m Fading. IEEE Communications Letters, 2010, 14, 942-944.	2.5	25
85	Reed Solomon Codes for Molecular Communication With a Full Absorption Receiver. IEEE Communications Letters, 2017, 21, 1245-1248.	2.5	25
86	SER of Multiple Amplify-and-Forward Relays with Selection Diversity. IEEE Transactions on Communications, 2011, 59, 2078-2083.	4.9	24
87	Millimeter Wave Power Transfer and Information Transmission. , 2015, , .		24
88	Edge Caching in Dense Heterogeneous Cellular Networks With Massive MIMO-Aided Self-Backhaul. IEEE Transactions on Wireless Communications, 2018, 17, 6360-6372.	6.1	24
89	A Small World Network Model for Energy Efficient Wireless Networks. IEEE Communications Letters, 2013, 17, 1928-1931.	2.5	23
90	Matching With Peer Effects for Context-Aware Resource Allocation in D2D Communications. IEEE Communications Letters, 2017, 21, 837-840.	2.5	23

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91	The Non-Coherent Ultra-Dense C-RAN Is Capable of Outperforming Its Coherent Counterpart at a Limited Fronthaul Capacity. IEEE Journal on Selected Areas in Communications, 2018, 36, 2549-2560.	9.7	23
92	Fifty Years of Noise Modeling and Mitigation in Power-Line Communications. IEEE Communications Surveys and Tutorials, 2021, 23, 41-69.	24.8	23
93	On the Exact and Asymptotic SER of Receive Diversity With Multiple Amplify-and-Forward Relays. IEEE Transactions on Vehicular Technology, 2010, 59, 4602-4608.	3.9	22
94	A Comparison of Two MIMO Relaying Protocols in Nakagami- m Fading. IEEE Transactions on Vehicular Technology, 2012, 61, 1416-1422.	3.9	20
95	MIMO Relaying: Distributed TAS/MRC in Nakagami- m Fading. IEEE Transactions on Communications, 2011, 59, 2678-2682.	4.9	19
96	Impact of Primary Network on Secondary Network with Generalized Selection Combining. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	3.9	19
97	Resource Allocation for URLLC in 5G Mission-Critical IoT Networks. , 2019, , .		19
98	Detection of Jamming Attack in Non-Coherent Massive SIMO Systems. IEEE Transactions on Information Forensics and Security, 2019, 14, 2387-2399.	4.5	19
99	Statistics of general order selection in correlated Nakagami fading channels. IEEE Transactions on Communications, 2008, 56, 344-346.	4.9	18
100	Interference Mitigation in Large-Scale Multiuser Molecular Communication. IEEE Transactions on Communications, 2019, 67, 4088-4103.	4.9	18
101	3D Stochastic Geometry Model for Large-Scale Molecular Communication Systems. , 2016, , .		17
102	Dynamic Aerial Base Station Placement for Minimum-Delay Communications. IEEE Internet of Things Journal, 2021, 8, 1623-1635.	5.5	17
103	Analysis of Random Access in NB-IoT Networks With Three Coverage Enhancement Groups: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2021, 20, 549-564.	6.1	17
104	Optimization of Grant-Free NOMA With Multiple Configured-Grants for mURLLC. IEEE Journal on Selected Areas in Communications, 2022, 40, 1222-1236.	9.7	16
105	User association in massive MIMO and mmWave enabled HetNets powered by renewable energy. , 2016, , .		15
106	Spectrum Sensing of OFDM Signals in the Presence of Carrier Frequency Offset. IEEE Transactions on Vehicular Technology, 2016, 65, 6798-6803.	3.9	14
107	Cognitive Single-Carrier Systems: Joint Impact of Multiple Licensed Transceivers. IEEE Transactions on Wireless Communications, 2014, 13, 6741-6755.	6.1	13
108	Reconfigurable Intelligent Surface-Aided MISO Systems with Statistical CSI: Channel Estimation, Analysis and Optimization : (Invited Paper). , 2021, , .		11

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109	Spectrum Sharing Single-Carrier in the Presence of Multiple Licensed Receivers. IEEE Transactions on Wireless Communications, 2013, 12, 5223-5235.	6.1	10
110	Massive MIMO in K-Tier Heterogeneous Cellular Networks: Coverage and Rate. , 2015, , .		10
111	Power- and Rate-Adaptation Improves the Effective Capacity of C-RAN for Nakagami- m Fading Channels. IEEE Transactions on Vehicular Technology, 2018, 67, 10841-10855.	3.9	10
112	Molecular communication with a reversible adsorption receiver. , 2016, , .		9
113	Uplink Interference Management in Massive MIMO Enabled Heterogeneous Cellular Networks. IEEE Wireless Communications Letters, 2016, 5, 560-563.	3.2	8
114	Ergodic capacity of cognitive TAS/GSC relaying in Nakagami- m fading channels. , 2014, , .		7
115	Variance-constrained capacity of the molecular timing channel with synchronization error. , 2014, , .		6
116	Throughput and Energy Efficiency for S-FFR in Massive MIMO Enabled Heterogeneous C-RAN. , 2016, , .		5
117	Joint Power Allocation in Interference-Limited Networks via Distributed Coordinated Learning. , 2018, , .		5
118	Random Access Performance for Three Coverage Enhancement Groups in NB-IoT Networks. , 2019, , .		5
119	Secure transmission via transmit antenna selection in MIMO wiretap channels. , 2012, , .		4
120	Downlink and Uplink Transmission in K-Tier Heterogeneous Cellular Network with Simultaneous Wireless Information and Power Transfer. , 2015, , .		4
121	SE and EE of Uplink D2D Underlaid Massive MIMO Cellular Networks with Power Control. , 2017, , .		4
122	Decentralized Dynamic Allocation of Subchannels in Multiple Access Networks. IEEE Communications Letters, 2008, 12, 761-763.	2.5	3
123	On the security of cooperative single carrier systems. , 2014, , .		3
124	Generalized selection combining in cognitive MIMO relay networks. , 2014, , .		3
125	Guest Editorial Location-Awareness for Radios and Networks, Part I. IEEE Journal on Selected Areas in Communications, 2015, 33, 1285-1287.	9.7	3
126	Partial Channel Quality Information Feedback in Multiuser Relay Networks Over Nakagami- m Fading. IEEE Transactions on Wireless Communications, 2015, 14, 4783-4796.	6.1	3

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127	Transceiver Observations in Asymmetric and Symmetric Diffusive Molecular Communication Systems. , 2018, , .		3
128	Markov Model Based Energy Harvesting for RACH Analysis in NB-IoT Network. , 2019, , .		3
129	RACH in Self-Powered NB-IoT Networks: Energy Availability and Performance Evaluation. IEEE Transactions on Communications, 2021, 69, 1750-1764.	4.9	3
130	Minimizing Task Offloading Delay in NOMA-MEC Wireless Systems. , 2022, , .		3
131	Selection based resource allocation for decentralized multi-user communications. Physical Communication, 2008, 1, 194-208.	1.2	2
132	New Diversity Combining Receivers for Cooperative Multiplexing in Wireless Multiuser Relay Networks. International Journal of Wireless Information Networks, 2013, 20, 170-182.	1.8	2
133	Massive MIMO-Enabled HetNets with Full Duplex Small Cells. , 2017, , .		2
134	Massive MIMO in K-Tier Heterogeneous Cellular Networks: Coverage and Rate. , 2014, , .		1
135	Millimeter Wave Power Transfer and Information Transmission. , 2014, , .		1
136	Enhancing the Reliability of Large-Scale Multiuser Molecular Communication Systems. , 2018, , .		1
137	Transmit Power Minimization for Secure Short-packet Transmission in a Mission-Critical IoT Scenario. , 2020, , .		1
138	Beamforming-Based Mitigation of Hovering Inaccuracy in UAV-Aided RFET. IEEE Transactions on Communications, 2022, 70, 2691-2706.	4.9	1
139	Secure Multi-Antenna Transmission in Three-Tier Wireless Sensor Networks. , 2014, , .		0
140	Downlink and Uplink Transmission in K-Tier Heterogeneous Cellular Network with Simultaneous Wireless Information and Power Transfer. , 2014, , .		0
141	Secure Multi-Antenna Transmission in Three-Tier Wireless Sensor Networks. , 2015, , .		0