Khaled Maaiuf Rabie

List of Publications by Year
in descending order

135 papers	2,751 citations	279798 23 h-index	276875 41 g-index
135 all docs	135 docs citations	135 times ranked	2333 citing authors

#	Article	IF	Citations
1	Low-Power Wide Area Network Technologies for Internet-of-Things: A Comparative Review. IEEE Internet of Things Journal, 2019, 6, 2225-2240.	8.7	206
2	Detection of advanced persistent threat using machine-learning correlation analysis. Future Generation Computer Systems, 2018, 89, 349-359.	7.5	181
3	A Novel AI-enabled Framework to Diagnose Coronavirus COVID-19 using Smartphone Embedded Sensors: Design Study. , 2020, , .		181
4	Physical Layer Security With RF Energy Harvesting in AF Multi-Antenna Relaying Networks. IEEE Transactions on Communications, 2016, 64, 3025-3038.	7.8	111
5	Half-Duplex and Full-Duplex AF and DF Relaying With Energy-Harvesting in Log-Normal Fading. IEEE Transactions on Green Communications and Networking, 2017, 1, 468-480.	5.5	69
6	Physical Layer Security in Vehicular Networks with Reconfigurable Intelligent Surfaces. , 2020, , .		69
7	Joint Impacts of Imperfect CSI and Imperfect SIC in Cognitive Radio-Assisted NOMA-V2X Communications. IEEE Access, 2020, 8, 128629-128645.	4.2	63
8	Dynamic Peak-Based Threshold Estimation Method for Mitigating Impulsive Noise in Power-Line Communication Systems. IEEE Transactions on Power Delivery, 2013, 28, 2201-2208.	4.3	62
9	A Unified Framework for HS-UAV NOMA Networks: Performance Analysis and Location Optimization. IEEE Access, 2020, 8, 13329-13340.	4.2	58
10	A Comparison Between Orthogonal and Non-Orthogonal Multiple Access in Cooperative Relaying Power Line Communication Systems. IEEE Access, 2017, 5, 10118-10129.	4.2	56
11	Security and Reliability Performance Analysis of Cooperative Multi-Relay Systems With Nonlinear Energy Harvesters and Hardware Impairments. IEEE Access, 2019, 7, 102644-102661.	4.2	41
12	Preprocessing-Based Impulsive Noise Reduction for Power-Line Communications. IEEE Transactions on Power Delivery, 2014, 29, 1648-1658.	4.3	40
13	Broadband PLC for Clustered Advanced Metering Infrastructure (AMI) Architecture. Energies, 2016, 9, 569.	3.1	40
14	Physical Layer Security of Cooperative NOMA for IoT Networks Under I/Q Imbalance. IEEE Access, 2020, 8, 51189-51199.	4.2	38
15	Joint Effects of Residual Hardware Impairments and Channel Estimation Errors on SWIPT Assisted Cooperative NOMA Networks. IEEE Access, 2019, 7, 135499-135513.	4.2	36
16	Hardware- and Interference-Limited Cognitive IoT Relaying NOMA Networks With Imperfect SIC Over Generalized Non-Homogeneous Fading Channels. IEEE Access, 2020, 8, 72942-72956.	4.2	36
17	For More Energy-Efficient Dual-Hop DF Relaying Power-Line Communication Systems. IEEE Systems Journal, 2018, 12, 2005-2016.	4.6	35
18	Smart Wireless Power Transmission System for Autonomous EV Charging. IEEE Access, 2019, 7, 112240-112248.	4.2	34

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19	On Improving Communication Robustness in PLC Systems for More Reliable Smart Grid Applications. IEEE Transactions on Smart Grid, 2015, 6, 2746-2756.	9.0	33
20	Reconfigurable Intelligent Surface Enabled IoT Networks in Generalized Fading Channels. , 2020, , .		33
21	UAV Relaying Enabled NOMA Network With Hybrid Duplexing and Multiple Antennas. IEEE Access, 2020, 8, 186993-187007.	4.2	33
22	Root-Based Nonlinear Companding Technique for Reducing PAPR of Precoded OFDM Signals. IEEE Access, 2018, 6, 4618-4629.	4.2	30
23	Enhanced Amplify-and-Forward Relaying in Non-Gaussian PLC Networks. IEEE Access, 2017, 5, 4087-4094.	4.2	29
24	Energy-harvesting in cooperative AF relaying networks over log-normal fading channels. , 2016, , .		28
25	Toward Physical-Layer Security for Internet of Vehicles: Interference-Aware Modeling. IEEE Internet of Things Journal, 2021, 8, 443-457.	8.7	28
26	Improving energy efficiency in dual-hop cooperative PLC relaying systems. , 2016, , .		26
27	Enhanced Nonlinear Companding Scheme for Reducing PAPR of OFDM Systems. IEEE Systems Journal, 2019, 13, 65-75.	4.6	26
28	Quantized Peak-Based Impulsive Noise Blanking in Power-Line Communications. IEEE Transactions on Power Delivery, 2014, 29, 1630-1638.	4.3	25
29	Throughput Analysis of Multipair Two-Way Replaying Networks With NOMA and Imperfect CSI. IEEE Access, 2020, 8, 128942-128953.	4.2	25
30	Improving the Reliability of Optimised Link State Routing in a Smart Grid Neighbour Area Network based Wireless Mesh Network Using Multiple Metrics. Energies, 2017, 10, 287.	3.1	24
31	Secrecy Performance Analysis of SIMO Systems Over Correlated $kappa$ â€“mu Shadowed Fading Channels. IEEE Access, 2019, 7, 86090-86101.	4.2	24
32	Two-Stage Non-Orthogonal Multiple Access Over Power Line Communication Channels. IEEE Access, 2018, 6, 17368-17376.	4.2	23
33	Hybrid Power-Line/Wireless Communication Systems For Indoor Applications. , 2018, , .		23
34	Massive MIMO systems for 5G: A systematic mapping study on antenna design challenges and channel estimation open issues. IET Communications, 2021, 15, 1677-1690.	2.2	23
35	Effective Noise Cancellation Using Single-Carrier FDMA Transmission in Power-Line Channels. IEEE Transactions on Power Delivery, 2014, 29, 2110-2117.	4.3	22
36	Wireless Power Transfer in Cooperative DF Relaying Networks with Log-Normal Fading. , 2016, , .		22

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37	Channel characterisation of cooperative relaying power line communication systems. , 2016, , .		22
38	On the Performance Analysis of WPT-Based Dual-Hop AF Relaying Networks in <inline-formula> <tex-math notation="LaTeX">$alpha$ </tex-math> </inline-formula>-<inline-formula> <tex-math notation="LaTeX">mu </tex-math> </inline-formula> Fading. IEEE Access, 2018, 6, 37138-37149.	4.2	22
39	Full-Duplex Energy-Harvesting Enabled Relay Networks in Generalized Fading Channels. IEEE Wireless Communications Letters, 2019, 8, 384-387.	5.0	22
40	Power allocation scheme for maximizing spectral efficiency and energy efficiency tradeoff for uplink NOMA systems in B5G/6G. Physical Communication, 2020, 43, 101227.	2.1	22
41	Improving blanking/clipping based impulsive noise mitigation over powerline channels. , 2013, , .		20
42	Constant envelope OFDM transmission over impulsive noise power-line communication channels. , 2015, , .		20
43	Combined Conformal Strongly-Coupled Magnetic Resonance for Efficient Wireless Power Transfer. Energies, 2017, 10, 498.	3.1	20
44	Achievable Physical-Layer Security Over Composite Fading Channels. IEEE Access, 2020, 8, 195772-195787.	4.2	20
45	Experimental Study of 6LoPLC for Home Energy Management Systems. Energies, 2016, 9, 1046.	3.1	19
46	Physical layer security of cooperative relaying power-line communication systems. , 2016, , .		19
47	Energy-Per-Bit Performance Analysis of Relay-Assisted Power Line Communication Systems. IEEE Transactions on Green Communications and Networking, 2018, 2, 360-368.	5.5	19
48	A New Approach to Peak Threshold Estimation for Impulsive Noise Reduction Over Power Line Fading Channels. IEEE Systems Journal, 2019, 13, 1682-1693.	4.6	19
49	Dual-Iterative Hybrid Beamforming Design for Millimeter-Wave Massive Multi-User MIMO Systems With Sub-Connected Structure. IEEE Transactions on Vehicular Technology, 2020, 69, 13482-13496.	6.3	19
50	Smart Handoff Technique for Internet of Vehicles Communication using Dynamic Edge-Backup Node. Electronics (Switzerland), 2020, 9, 524.	3.1	19
51	On the Secrecy Capacity of Fisher-Snedecor F Fading Channels. , 2018, , .		18
52	Performance of NOMA-Enabled Cognitive Satellite-Terrestrial Networks With Non-Ideal System Limitations. IEEE Access, 2021, 9, 35932-35946.	4.2	18
53	Physical Layer Security in RIS-assisted Networks in Fisher-Snedecor Composite Fading. , 2020, , .		18
54	On Companding and Optimization of OFDM Signals for Mitigating Impulsive Noise in Power-Line Communication Systems. IEEE Access, 2017, 5, 21818-21830.	4.2	17

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55	Vector OFDM Transmission Over Non-Gaussian Power Line Communication Channels. IEEE Systems Journal, 2018, 12, 2344-2352.	4.6	17
56	Outage Probability of the EH-Based Full-Duplex AF and DF Relaying Systems in $alpha-mu$ Environment. , 2018, , .		17
57	Disguised executable files in spear-phishing emails. , 2018, , .		17
58	Near-Optimal Design for Hybrid Beamforming in mmWave Massive Multi-User MIMO Systems. IEEE Access, 2020, 8, 129153-129168.	4.2	17
59	Optimization of Time Synchronization and Algorithms with TDOA Based Indoor Positioning Technique for Internet of Things. Sensors, 2020, 20, 6513.	3.8	17
60	Communication systems of high‑speed railway: A survey. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4189.	3.9	17
61	Joint Full-Duplex and Roadside Unit Selection for NOMA-Enabled V2X Communications: Ergodic Rate Performance. IEEE Access, 2020, 8, 140348-140360.	4.2	16
62	Interference Analysis for Vehicle-to-Vehicle Communications at 28 GHz. Electronics (Switzerland), 2020, 9, 262.	3.1	16
63	Bi-Directional Coordination of Plug-In Electric Vehicles with Economic Model Predictive Control. Energies, 2017, 10, 1507.	3.1	15
64	Secure analysis of multi‑antenna cooperative networks with residual transceiver HIs and CEEs. IET Communications, 2019, 13, 2649-2659.	2.2	15
65	Security Analysis of Multi-Antenna NOMA Networks Under I/Q Imbalance. Electronics (Switzerland), 2019, 8, 1327.	3.1	15
66	Performance Analysis of Massive MIMO-OFDM System Incorporated with Various Transforms for Image Communication in 5G Systems. Electronics (Switzerland), 2022, 11, 621.	3.1	15
67	Performance analysis of adaptive hybrid nonlinear preprocessors for impulsive noise mitigation over power-line channels. , 2015, , .		14
68	Performance evaluation of multi-hop relaying over non-gaussian PLC channels. Journal of Communications and Networks, 2017, 19, 531-538.	2.6	14
69	Masreliez-Equalized VOFDM in Non-Gaussian Channels: Power Line Communication Systems. IEEE Systems Journal, 2018, 12, 2803-2811.	4.6	14
70	Polar codes based OFDM-PLC systems in the presence of middleton class-A noise. , 2016, , .		13
71	Performance Analysis of Cooperative and Non-Cooperative Relaying over VLC Channels. Sensors, 2020, 20, 3660.	3.8	13
72	Energy-Efficient Vector OFDM PLC Systems With Dynamic Peak-Based Threshold Estimation. IEEE Access, 2017, 5, 10723-10733.	4.2	12

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73	Outage probability and energy efficiency of DF relaying power line communication networks: Cooperative and non-cooperative. , 2017, , .		12
74	Performance Analysis of Integrated Power-Line&#x002F;Visible-Light Communication Systems with AF Relaying. , 2018, , .		12
75	Implementation-Friendly and Energy-Efficient Symbol-by-Symbol Detection Scheme for IEEE 802.15.4 O-QPSK Receivers. IEEE Access, 2020, 8, 158402-158415.	4.2	12
76	Optimisation of indoor hybrid PLC/VLC/RF communication systems. IET Communications, 2020, 14, 117-126.	2.2	12
77	Ergodic Capacity Analysis of Wireless Powered AF Relaying Systems over alpha-Âµ Fading Channels. , 2017, , .		10
78	The Nâˆ'Fisher-Snedecor F Cascaded Fading Model. , 2018, , .		10
79	Physical Layer Security in Vehicular Communication Networks in the Presence of Interference. , 2019, , .		10
80	I/Q Imbalance and Imperfect SIC on Two-Way Relay NOMA Systems. Electronics (Switzerland), 2020, 9, 249.	3.1	10
81	Outage probability analysis of WPT systems with multiple-antenna access point. , 2016, , .		9
82	PAPR reduction of wavelet-OFDM systems using pilot symbols. , 2018, , .		9
83	LSTM-Based Distributed Conditional Generative Adversarial Network for Data-Driven 5G-Enabled Maritime UAV Communications. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-16.	8.0	9
84	A New Technique for Reducing Size of a WPT System Using Two-Loop Strongly-Resonant Inductors. Energies, 2017, 10, 1614.	3.1	8
85	On the Performance of DF-based Power-Line/Visible-Light Communication Systems. , 2018, , .		8
86	An Efficient Resource Allocation Algorithm for Device-To-Device Communications. Applied Sciences (Switzerland), 2019, 9, 3816.	2.5	8
87	Efficient Hybrid Beamforming Design in mmWave Massive MU-MIMO DF Relay Systems With the Mixed-Structure. IEEE Access, 2021, 9, 66141-66153.	4.2	8
88	Deep Learning-Based Secure MIMO Communications with Imperfect CSI for Heterogeneous Networks. Sensors, 2020, 20, 1730.	3.8	7
89	Performance Analysis of Dual-Hop Hybrid RF-UOWC NOMA Systems. Sensors, 2022, 22, 4521.	3.8	7
90	Quantized peak based impulsive noise blanking in powerline communications. , 2013, , .		6

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91	Threshold and scaling factor optimization for enhancing impulsive noise cancellation in PLC systems. , 2014, , .		6
92	Single-carrier FDMA with blanking/clipping for mitigating impulsive noise over PLC channels. , 2014, , .		6
93	EE Optimization for Downlink NOMA-Based Multi-Tier CRANs. IEEE Transactions on Vehicular Technology, 2021, 70, 5880-5891.	6.3	6
94	On enhancing the performance of the DPTE-based noise cancellation method utilizing the PTS PAPR reduction scheme in PLC systems. , 2014, , .		5
95	MC-CDMA Transmission with Blanking Nonlinearity for Impulsive Noise Power-Line Communication Channels. , 2015, , .		5
96	Improved DPTE technique for impulsive noise mitigation over power-line communication channels. AEU - International Journal of Electronics and Communications, 2015, 69, 1847-1853.	2.9	5
97	A New Framework Combining Local-Region Division and Feature Selection for Micro-Expressions Recognition. IEEE Access, 2020, 8, 94499-94509.	4.2	5
98	Efficient SLM based impulsive noise reduction in powerline OFDM communication systems. , 2013, , .		4
99	Performance analysis of secrecy capacity for two hop AF relay networks with zero forcing. , 2015, , .		4
100	A method to enhance the performance of successive cancellation decoding in polar codes. , 2016, , .		4
101	Wireless Power and Communication Transmission for Industrial Robots. , 2018, , .		4
102	On the Concatenations of Polar Codes and Non-Binary LDPC Codes. IEEE Access, 2018, 6, 65088-65097.	4.2	4
103	IEEE Access Special Section Editorial: Advances in Power Line Communication and its Applications. IEEE Access, 2019, 7, 133371-133374.	4.2	4
104	Cognitive Non-ideal NOMA Satellite-Terrestrial Networks with Channel and Hardware Imperfections. , 2021, , .		4
105	Performance Analysis of SWIPT Networks over Composite Fading Channels. , 2020, , .		4
106	Efficient iterative massive MIMO detection using Chebyshev acceleration. Physical Communication, 2022, 52, 101651.	2.1	4
107	Performance limits of wireless powered cooperative NOMA over generalized fading. Transactions on Emerging Telecommunications Technologies, 0, , .	3.9	4
108	Wireless Power Transfer over Non-Gaussian Channels with Multiple-Antenna Access Point. , 2015, , .		3

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109	Mapping Design for 2^{M} -Ary Bit-Interleaved Polar Coded Modulation. IEEE Access, 2019, 7, 116774-116784.	4.2	3
110	Energy-per-bit performance analysis of relay-based visible-light communication systems. Physical Communication, 2019, 35, 100699.	2.1	3
111	Average Secrecy Capacity of SIMO k-Î¼ Shadowed Fading Channels with Multiple Eavesdroppers. , 2020, , .		3
112	EMC Measurements in Indoor Power Line Communication Environments. Lecture Notes in Electrical Engineering, 2019, , 189-200.	0.4	3
113	Outage Analysis for Tag Selection in Reciprocal Backscatter Communication Systems. IEEE Wireless Communications Letters, 2022, 11, 210-214.	5.0	3
114	A Low-Complexity Soft-Output Signal Data Detection Algorithm for UL Massive MIMO Systems. , 2021, , .		3
115	DFT Spread-Optical Pulse Amplitude Modulation for Visible Light Communication Systems. IEEE Access, 2022, 10, 15956-15967.	4.2	3
116	Analysis of Optimized Threshold with SLM based Blanking Non-Linearity for Impulsive Noise Reduction in Power Line Communication Systems. , 2018, , .		2
117	Optimization of Impulsive Noise Mitigation Scheme for PAPR Reduced OFDM Signals over Powerline Channels. , 2018, , .		2
118	Impulsive Noise Modeling and Cancellation Strategies Over Power Line Channels. Lecture Notes in Electrical Engineering, 2019, , 163-175.	0.4	2
119	Wireless Powered Cognitive Cooperative Networks: Outage Performance. , 2019, , .		2
120	Experimental Results on the Mitigation of Turbulence in Free Space Optics using Spatial Diversity. , 2020, , .		2
121	Channel Modeling for Overhead Line Equipment for Train Communication. , 2020, , .		2
122	Underlay CR-NOMA Relaying Networks over Non-Homogeneous Generalized Fading Channels. , 2020, , .		2
123	On the Construction of Polar Codes in the Middleton Class-A Channels. , 2020, , .		2
124	More robust decode-and-forward relaying over impulsive noise power line channels. , 2017, , .		1
125	On the Reliability of Decode-and-Forward Two-Relay Diversity-enabled NOMA Networks. , 2019, , .		1
126	OFDM Systems Design Using Harmonic Wavelets. , 2019, , .		1

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127	Underlay Hybrid Satellite-Terrestrial Relay Networks under Realistic Hardware and Channel Conditions. , 2021, , .		1
128	Ergodic Capacity of Cognitive Satellite-Terrestrial Relay Networks with Practical Limitations. , 2021, , .		1
129	A Cost-Effective Identity-Based Signature Scheme for Vehicular Ad Hoc Network Using Hyperelliptic Curve Cryptography. Wireless Communications and Mobile Computing, 2022, 2022, 1-8.	1.2	1
130	Impulsive Noise Blanking Using Quantized PAPR Estimates in Powerline Communications. , 2013, , .		0
131	On the performance of multi-user DS-CDMA systems over power-line channels. , 2014, , .		0
132	Wireless Power Transfer over Non-Gaussian Channels with Multiple-Antenna Access Point. , 2014, , .		0
133	Orthogonal poly-phase MC-CDMA over multipath power-line channels with Middleton class-A noise. , 2015, , .		0
134	Multiuser steered signed quadrature spatial modulation for millimeterâ€wave massive multipleâ€input multipleâ€output with hybrid beamforming. Transactions on Emerging Telecommunications Technologies, 0, , .	3.9	0
135	Reinforcement Learning-Based Resource Allocation for M2M Communications over Cellular Networks. , 2022, , .		0