

Mohamed-Slim Alouini

List of Publications by Year in descending order

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1,733
papers

59,393
citations

2795

94
h-index

3714

179
g-index

1753
all docs

1753
docs citations

1753
times ranked

16467
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access, 2019, 7, 116753-116773.	2.6	1,743
2	On the Energy Detection of Unknown Signals Over Fading Channels. IEEE Transactions on Communications, 2007, 55, 21-24.	4.9	1,595
3	Smart Radio Environments Empowered by Reconfigurable Intelligent Surfaces: How It Works, State of Research, and The Road Ahead. IEEE Journal on Selected Areas in Communications, 2020, 38, 2450-2525.	9.7	1,365
4	End-to-end performance of transmission systems with relays over rayleigh-fading channels. IEEE Transactions on Wireless Communications, 2003, 2, 1126-1131.	6.1	1,191
5	Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	1,020
6	What should 6G be?. Nature Electronics, 2020, 3, 20-29.	13.1	845
7	Capacity of Rayleigh fading channels under different adaptive transmission and diversity-combining techniques. IEEE Transactions on Vehicular Technology, 1999, 48, 1165-1181.	3.9	822
8	On the energy detection of unknown signals over fading channels. , 0, .		790
9	A Performance Study of Dual-Hop Transmissions With Fixed Gain Relays. IEEE Transactions on Wireless Communications, 2004, 3, 1963-1968.	6.1	694
10	A new simple model for land mobile satellite channels: first- and second-order statistics. IEEE Transactions on Wireless Communications, 2003, 2, 519-528.	6.1	673
11	Adaptive Modulation over Nakagami Fading Channels. Wireless Personal Communications, 2000, 13, 119-143.	1.8	658
12	A unified approach to the performance analysis of digital communication over generalized fading channels. Proceedings of the IEEE, 1998, 86, 1860-1877.	16.4	655
13	A Survey of Channel Modeling for UAV Communications. IEEE Communications Surveys and Tutorials, 2018, 20, 2804-2821.	24.8	551
14	Outage probability of multihop transmission over Nakagami fading channels. IEEE Communications Letters, 2003, 7, 216-218.	2.5	479
15	Optimal Power Allocation for Relayed Transmissions Over Rayleigh-Fading Channels. IEEE Transactions on Wireless Communications, 2004, 3, 1999-2004.	6.1	478
16	A unified approach for calculating error rates of linearly modulated signals over generalized fading channels. IEEE Transactions on Communications, 1999, 47, 1324-1334.	4.9	472
17	Harmonic Mean and End-to-End Performance of Transmission Systems With Relays. IEEE Transactions on Communications, 2004, 52, 130-135.	4.9	419
18	Area spectral efficiency of cellular mobile radio systems. IEEE Transactions on Vehicular Technology, 1999, 48, 1047-1066.	3.9	409

#	ARTICLE	IF	CITATIONS
19	How much feedback is multi-user diversity really worth?. , 2004, , .		391
20	An MGF-based performance analysis of generalized selection combining over Rayleigh fading channels. IEEE Transactions on Communications, 2000, 48, 401-415.	4.9	378
21	FSO-Based Vertical Backhaul/Fronthaul Framework for 5G+ Wireless Networks. , 2018, 56, 218-224.		375
22	A New Formula for the BER of Binary Modulations with Dual-Branch Selection over Generalized-K Composite Fading Channels. IEEE Transactions on Communications, 2011, 59, 2654-2658.	4.9	348
23	Modeling and Analysis of Cellular Networks Using Stochastic Geometry: A Tutorial. IEEE Communications Surveys and Tutorials, 2017, 19, 167-203.	24.8	348
24	Performance Analysis of Free-Space Optical Links Over MÃ;laga (\mathcal{M}) Turbulence Channels With Pointing Errors. IEEE Transactions on Wireless Communications, 2016, 15, 91-102.	6.1	312
25	Sum of gamma variates and performance of wireless communication systems over Nakagami-fading channels. IEEE Transactions on Vehicular Technology, 2001, 50, 1471-1480.	3.9	294
26	Analytical Modeling of Mode Selection and Power Control for Underlay D2D Communication in Cellular Networks. IEEE Transactions on Communications, 2014, 62, 4147-4161.	4.9	288
27	Largest eigenvalue of complex wishart matrices and performance analysis of MIMO MRC systems. IEEE Journal on Selected Areas in Communications, 2003, 21, 418-426.	9.7	285
28	Underwater optical wireless communications, networking, and localization: A survey. Ad Hoc Networks, 2019, 94, 101935.	3.4	285
29	Asymptotic Max-Min SINR Analysis of Reconfigurable Intelligent Surface Assisted MISO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 7748-7764.	6.1	283
30	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. IEEE Open Journal of the Communications Society, 2020, 1, 1-32.	4.4	279
31	48 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. Optics Express, 2015, 23, 23302.	1.7	266
32	Intelligent Reflecting Surface-Assisted Multi-User MISO Communication: Channel Estimation and Beamforming Design. IEEE Open Journal of the Communications Society, 2020, 1, 661-680.	4.4	252
33	Impact of Pointing Errors on the Performance of Mixed RF/FSO Dual-Hop Transmission Systems. IEEE Wireless Communications Letters, 2013, 2, 351-354.	3.2	249
34	A Survey of NOMA: Current Status and Open Research Challenges. IEEE Open Journal of the Communications Society, 2020, 1, 179-189.	4.4	247
35	Joint Trajectory and Precoding Optimization for UAV-Assisted NOMA Networks. IEEE Transactions on Communications, 2019, 67, 3723-3735.	4.9	236
36	20-meter underwater wireless optical communication link with 15 Gbps data rate. Optics Express, 2016, 24, 25502.	1.7	234

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37	Effect of channel estimation error on M-QAM BER performance in Rayleigh fading. IEEE Transactions on Communications, 1999, 47, 1856-1864.	4.9	225
38	Capacity of MIMO Rician channels. IEEE Transactions on Wireless Communications, 2006, 5, 112-122.	6.1	218
39	Next Generation Terahertz Communications: A Rendezvous of Sensing, Imaging, and Localization. IEEE Communications Magazine, 2020, 58, 69-75.	4.9	218
40	Physical Layer Security for Cooperative NOMA Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 4645-4649.	3.9	203
41	A Key 6G Challenge and Opportunityâ€”Connecting the Base of the Pyramid: A Survey on Rural Connectivity. Proceedings of the IEEE, 2020, 108, 533-582.	16.4	203
42	Performance Analysis of Mixed Nakagami- m and Gammaâ€”Gamma Dual-Hop FSO Transmission Systems. IEEE Photonics Journal, 2015, 7, 1-20.	1.0	202
43	Multiple UAVs as Relays: Multi-Hop Single Link Versus Multiple Dual-Hop Links. IEEE Transactions on Wireless Communications, 2018, 17, 6348-6359.	6.1	202
44	23 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. Optics Express, 2015, 23, 20743.	1.7	178
45	Deep Denoising Neural Network Assisted Compressive Channel Estimation for mmWave Intelligent Reflecting Surfaces. IEEE Transactions on Vehicular Technology, 2020, 69, 9223-9228.	3.9	177
46	A recursive algorithm for the exact BER computation of generalized hierarchical QAM constellations. IEEE Transactions on Information Theory, 2003, 49, 297-307.	1.5	170
47	A unified approach to the probability of error for noncoherent and differentially coherent modulations over generalized fading channels. IEEE Transactions on Communications, 1998, 46, 1625-1638.	4.9	165
48	Outage probability of diversity systems over generalized fading channels. IEEE Transactions on Communications, 2000, 48, 1783-1787.	4.9	165
49	CubeSat Communications: Recent Advances and Future Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 1839-1862.	24.8	163
50	Performance analysis of two-hop relayed transmissions over Rayleigh fading channels. , 0, , .		160
51	Practical Switching-Based Hybrid FSO/RF Transmission and Its Performance Analysis. IEEE Photonics Journal, 2014, 6, 1-13.	1.0	159
52	Performance Analysis of Multiuser Selection Diversity. IEEE Transactions on Vehicular Technology, 2006, 55, 1848-1861.	3.9	158
53	On Optimizing VLC Networks for Downlink Multi-User Transmission: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2947-2976.	24.8	158
54	Unified Statistical Channel Model for Turbulence-Induced Fading in Underwater Wireless Optical Communication Systems. IEEE Transactions on Communications, 2019, 67, 2893-2907.	4.9	158

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55	An Overview of Signal Processing Techniques for Terahertz Communications. Proceedings of the IEEE, 2021, 109, 1628-1665.	16.4	158
56	Communicating Using Spatial Mode Multiplexing: Potentials, Challenges, and Perspectives. IEEE Communications Surveys and Tutorials, 2019, 21, 3175-3203.	24.8	154
57	On the Performance Analysis of Dual-Hop Mixed FSO/RF Systems. IEEE Transactions on Wireless Communications, 2016, 15, 3679-3689.	6.1	153
58	Analysis and optimization of switched diversity systems. IEEE Transactions on Vehicular Technology, 2000, 49, 1813-1831.	3.9	145
59	Reconfigurable Intelligent Surfaces for Localization: Position and Orientation Error Bounds. IEEE Transactions on Signal Processing, 2021, 69, 5386-5402.	3.2	144
60	Secrecy Capacity Analysis Over α - μ Fading Channels. IEEE Communications Letters, 2017, 21, 1445-1448.	2.5	142
61	Terahertz communication: The opportunities of wireless technology beyond 5G. , 2018, , .		141
62	Performance analysis of multibranch switched diversity systems. IEEE Transactions on Communications, 2003, 51, 782-794.	4.9	134
63	On Secure NOMA Systems With Transmit Antenna Selection Schemes. IEEE Access, 2017, 5, 17450-17464.	2.6	134
64	Performance of coherent receivers with hybrid SC/MRC over Nakagami-m fading channels. IEEE Transactions on Vehicular Technology, 1999, 48, 1155-1164.	3.9	133
65	Roadmap to free space optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A184.	0.9	131
66	Free-Space Optical Communications: Capacity Bounds, Approximations, and a New Sphere-Packing Perspective. IEEE Transactions on Communications, 2016, 64, 1176-1191.	4.9	128
67	On the Jamming Power Allocation for Secure Amplify-and-Forward Relaying via Cooperative Jamming. IEEE Journal on Selected Areas in Communications, 2013, 31, 1741-1750.	9.7	127
68	Outdoor FSO Communications Under Fog: Attenuation Modeling and Performance Evaluation. IEEE Photonics Journal, 2016, 8, 1-22.	1.0	127
69	Product of the Powers of Generalized Nakagami-m Variates and Performance of Cascaded Fading Channels. , 2009, , .		125
70	A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels. IEEE Transactions on Communications, 2012, 60, 862-875.	4.9	124
71	A Comparative Study on the Performance of MIMO MRC Systems With and Without Cochannel Interference. IEEE Transactions on Communications, 2004, 52, 1417-1425.	4.9	122
72	Terahertz Massive MIMO With Holographic Reconfigurable Intelligent Surfaces. IEEE Transactions on Communications, 2021, 69, 4732-4750.	4.9	122

#	ARTICLE	IF	CITATIONS
73	Spectral and Energy Efficiency of IRS-Assisted MISO Communication With Hardware Impairments. IEEE Wireless Communications Letters, 2020, 9, 1366-1369.	3.2	119
74	Outage Analysis for Underlay Cognitive Networks Using Incremental Regenerative Relaying. IEEE Transactions on Vehicular Technology, 2013, 62, 721-734.	3.9	117
75	Effect of Primary User Traffic on Sensing-Throughput Tradeoff for Cognitive Radios. IEEE Transactions on Wireless Communications, 2011, 10, 1063-1068.	6.1	116
76	Intelligent Surfaces for 6G Wireless Networks: A Survey of Optimization and Performance Analysis Techniques. IEEE Access, 2020, 8, 202795-202818.	2.6	116
77	Design of 5G Full Dimension Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 726-740.	4.9	115
78	Performance analysis of incremental opportunistic relaying over identically and non-identically distributed cooperative paths. IEEE Transactions on Wireless Communications, 2009, 8, 1953-1961.	6.1	114
79	Terahertz-Band Ultra-Massive Spatial Modulation MIMO. IEEE Journal on Selected Areas in Communications, 2019, 37, 2040-2052.	9.7	113
80	Joint Reflecting and Precoding Designs for SER Minimization in Reconfigurable Intelligent Surfaces Assisted MIMO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 5561-5574.	6.1	113
81	A unified performance analysis of digital communication with dual selective combining diversity over correlated Rayleigh and Nakagami-m fading channels. IEEE Transactions on Communications, 1999, 47, 33-43.	4.9	112
82	Channel Capacity of Adaptive Transmission With Maximal Ratio Combining in Correlated Rayleigh Fading. IEEE Transactions on Wireless Communications, 2004, 3, 1124-1133.	6.1	112
83	Wireless Energy Harvesting Using Signals From Multiple Fading Channels. IEEE Transactions on Communications, 2017, 65, 5027-5039.	4.9	112
84	Handover Management in 5G and Beyond: A Topology Aware Skipping Approach. IEEE Access, 2016, 4, 9073-9081.	2.6	111
85	Coverage, Probability of SNR Gain, and DOR Analysis of RIS-Aided Communication Systems. IEEE Wireless Communications Letters, 2020, 9, 1268-1272.	3.2	110
86	Secrecy Outage Analysis for Cooperative NOMA Systems With Relay Selection Schemes. IEEE Transactions on Communications, 2019, 67, 6282-6298.	4.9	108
87	On Secure Underlay MIMO Cognitive Radio Networks With Energy Harvesting and Transmit Antenna Selection. IEEE Transactions on Green Communications and Networking, 2017, 1, 192-203.	3.5	106
88	On the Capacity-Fairness Tradeoff in Multiuser Diversity Systems. IEEE Transactions on Vehicular Technology, 2007, 56, 1901-1907.	3.9	105
89	On the Performance of Free-Space Optical Communication Systems Over Double Generalized Gamma Channel. IEEE Journal on Selected Areas in Communications, 2015, 33, 1829-1840.	9.7	105
90	Spatiotemporal Stochastic Modeling of IoT Enabled Cellular Networks: Scalability and Stability Analysis. IEEE Transactions on Communications, 2017, , 1-1.	4.9	105

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91	An adaptive modulation scheme for simultaneous voice and data transmission over fading channels. IEEE Journal on Selected Areas in Communications, 1999, 17, 837-850.	9.7	104
92	Dual diversity over correlated log-normal fading channels. IEEE Transactions on Communications, 2002, 50, 1946-1959.	4.9	104
93	Cost-effective hybrid RF/FSO backhaul solution for next generation wireless systems. IEEE Wireless Communications, 2015, 22, 98-104.	6.6	103
94	A State-of-the-Art Survey on Multidimensional Scaling-Based Localization Techniques. IEEE Communications Surveys and Tutorials, 2019, 21, 3565-3583.	24.8	103
95	Aerial Base Station Deployment in 6G Cellular Networks Using Tethered Drones: The Mobility and Endurance Tradeoff. IEEE Vehicular Technology Magazine, 2020, 15, 103-111.	2.8	103
96	GMD-Based Hybrid Beamforming for Large Reconfigurable Intelligent Surface Assisted Millimeter-Wave Massive MIMO. IEEE Access, 2020, 8, 19530-19539.	2.6	103
97	Optimal Design of Dual-Hop VLC/RF Communication System With Energy Harvesting. IEEE Communications Letters, 2016, 20, 1979-1982.	2.5	102
98	Deep Learning in the Industrial Internet of Things: Potentials, Challenges, and Emerging Applications. IEEE Internet of Things Journal, 2021, 8, 11016-11040.	5.5	102
99	Secure Transmission for Intelligent Reflecting Surface-Assisted mmWave and Terahertz Systems. IEEE Wireless Communications Letters, 2020, 9, 1743-1747.	3.2	101
100	Outage Analysis of Practical FSO/RF Hybrid System With Adaptive Combining. IEEE Communications Letters, 2015, 19, 1366-1369.	2.5	100
101	BER computation of 4/M-QAM hierarchical constellations. IEEE Transactions on Broadcasting, 2001, 47, 228-239.	2.5	99
102	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. Optics Letters, 2017, 42, 2455.	1.7	99
103	Capacity of correlated MIMO Rayleigh channels. IEEE Transactions on Wireless Communications, 2006, 5, 143-155.	6.1	97
104	On Secrecy Performance of Mixed RF-FSO Systems. IEEE Photonics Journal, 2017, 9, 1-14.	1.0	97
105	Accurate Closed-Form Approximations to Channel Distributions of RIS-Aided Wireless Systems. IEEE Wireless Communications Letters, 2020, 9, 1985-1989.	3.2	93
106	Secrecy Outage Analysis of Mixed RF-FSO Downlink SWIPT Systems. IEEE Transactions on Communications, 2018, 66, 6384-6395.	4.9	92
107	Fourier-Based Transmit Beampattern Design Using MIMO Radar. IEEE Transactions on Signal Processing, 2014, 62, 2226-2235.	3.2	91
108	On the performance analysis of composite multipath/shadowing channels using the G-distribution. IEEE Transactions on Communications, 2009, 57, 1162-1170.	4.9	90

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109	Light based underwater wireless communications. Japanese Journal of Applied Physics, 2018, 57, 08PA06.	0.8	89
110	Ergodic Capacity of Cognitive Radio Under Imperfect Channel-State Information. IEEE Transactions on Vehicular Technology, 2012, 61, 2108-2119.	3.9	88
111	Dual-Hop FSO Transmission Systems Over Gamma-Gamma Turbulence With Pointing Errors. IEEE Transactions on Wireless Communications, 2017, 16, 784-796.	6.1	88
112	Capacity of Nakagami multipath fading channels. , 0, , .		87
113	4-Gbit/s visible light communication link based on 16-QAM OFDM transmission over remote phosphor-film converted white light by using blue laser diode. Optics Express, 2015, 23, 33656.	1.7	87
114	Velocity-Aware Handover Management in Two-Tier Cellular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1851-1867.	6.1	87
115	Security-Reliability Trade-Off Analysis for Multiuser SIMO Mixed RF/FSO Relay Networks With Opportunistic User Scheduling. IEEE Transactions on Wireless Communications, 2016, 15, 5904-5918.	6.1	86
116	Ergodic Capacity Analysis of Free-Space Optical Links With Nonzero Boresight Pointing Errors. IEEE Transactions on Wireless Communications, 2015, 14, 4248-4264.	6.1	84
117	Exponential-type bounds on the generalized Marcum Q-function with application to error probability analysis over fading channels. IEEE Transactions on Communications, 2000, 48, 359-366.	4.9	83
118	On the Outage Performance of Full-Duplex Selective Decode-and-Forward Relaying. IEEE Communications Letters, 2013, 17, 1180-1183.	2.5	82
119	MIMO Radar Transmit Beampattern Design Without Synthesising the Covariance Matrix. IEEE Transactions on Signal Processing, 2014, 62, 2278-2289.	3.2	82
120	A Stochastic Geometry Model for Multi-Hop Highway Vehicular Communication. IEEE Transactions on Wireless Communications, 2016, 15, 2276-2291.	6.1	82
121	Visible Light Communications via Intelligent Reflecting Surfaces: Metasurfaces vs Mirror Arrays. IEEE Open Journal of the Communications Society, 2021, 2, 1-20.	4.4	82
122	Exploiting Randomly Located Blockages for Large-Scale Deployment of Intelligent Surfaces. IEEE Journal on Selected Areas in Communications, 2021, 39, 1043-1056.	9.7	82
123	Comparison of the level crossing rate and average fade duration of Rayleigh, Rice and Nakagami fading models with mobile channel data. , 0, , .		81
124	Secrecy Analysis for Cooperative NOMA Networks With Multi-Antenna Full-Duplex Relay. IEEE Transactions on Communications, 2019, 67, 5574-5587.	4.9	81
125	Exact BER computation for cross QAM constellations. IEEE Transactions on Wireless Communications, 2005, 4, 3039-3050.	6.1	80
126	Accurate Outage Analysis of Incremental Decode-and-Forward Opportunistic Relaying. IEEE Transactions on Wireless Communications, 2011, 10, 1021-1025.	6.1	79

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127	Performance Evaluation of Underwater Wireless Optical Communications Links in the Presence of Different Air Bubble Populations. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	79
128	MRC and GSC Diversity Combining With an Output Threshold. IEEE Transactions on Vehicular Technology, 2005, 54, 1081-1090.	3.9	78
129	Adaptive Hierarchical Modulation for Simultaneous Voice and Multiclass Data Transmission Over Fading Channels. IEEE Transactions on Vehicular Technology, 2006, 55, 1181-1194.	3.9	78
130	Toward the Internet of Underground Things: A Systematic Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 3443-3466.	24.8	78
131	On the Power and Offset Allocation for Rate Adaptation of Spatial Multiplexing in Optical Wireless MIMO Channels. IEEE Transactions on Communications, 2013, 61, 1535-1543.	4.9	76
132	Optimized LTE Cell Planning With Varying Spatial and Temporal User Densities. IEEE Transactions on Vehicular Technology, 2016, 65, 1575-1589.	3.9	76
133	Sum and Difference of Two Squared Correlated Nakagami Variates in Connection With the McKay Distribution. IEEE Transactions on Communications, 2004, 52, 1367-1376.	4.9	75
134	A new simple model for composite fading channels: Second order statistics and channel capacity. , 2010, , .		75
135	Hybrid Radio/Free-Space Optical Design for Next Generation Backhaul Systems. IEEE Transactions on Communications, 2016, 64, 2563-2577.	4.9	75
136	Instantly decodable network coding for real-time device-to-device communications. Eurasip Journal on Advances in Signal Processing, 2016, 2016, .	1.0	75
137	Performance analysis of generalized selection combining with threshold test per branch (T-GSC). IEEE Transactions on Vehicular Technology, 2002, 51, 1018-1029.	3.9	74
138	Performance analysis of cellular mobile systems with successive co-channel interference cancellation. IEEE Transactions on Wireless Communications, 2003, 2, 29-40.	6.1	74
139	Novel asymptotic results on the high-order statistics of the channel capacity over generalized fading channels. , 2012, , .		74
140	On the Asymptotic Capacity of Dual-Aperture FSO Systems With Generalized Pointing Error Model. IEEE Transactions on Wireless Communications, 2016, 15, 6502-6512.	6.1	74
141	Secrecy Outage Analysis of Mixed RF-FSO Systems With Channel Imperfection. IEEE Photonics Journal, 2018, 10, 1-13.	1.0	74
142	On the capacity of generalized-k fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 2441-2445.	6.1	73
143	MIMO-Radar Waveform Covariance Matrix for High SINR and Low Side-Lobe Levels. IEEE Transactions on Signal Processing, 2014, 62, 2056-2065.	3.2	73
144	An Overview of Physical Layer Security in Wireless Communication Systems With CSIT Uncertainty. IEEE Access, 2016, 4, 6121-6132.	2.6	73

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145	Ultramassive MIMO Systems at Terahertz Bands: Prospects and Challenges. IEEE Vehicular Technology Magazine, 2020, 15, 33-42.	2.8	73
146	Secrecy Outage of Max ϵ -Min TAS Scheme in MIMO-NOMA Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 6981-6990.	3.9	72
147	On Secrecy Outage of Relay Selection in Underlay Cognitive Radio Networks Over Nakagami- m Fading Channels. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 614-627.	4.9	71
148	Performance Analysis of Integrated Satellite-Terrestrial Multiantenna Relay Networks With Multiuser Scheduling. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 2718-2731.	2.6	71
149	Multiuser Scheduling for Asymmetric FSO/RF Links in Satellite-UAV-Terrestrial Networks. IEEE Wireless Communications Letters, 2020, 9, 1235-1239.	3.2	71
150	Elevation Beamforming With Full Dimension MIMO Architectures in 5G Systems: A Tutorial. IEEE Communications Surveys and Tutorials, 2019, 21, 3238-3273.	24.8	70
151	Space-Air-Ground Integrated Networks: Outage Performance Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 7897-7912.	6.1	70
152	Performance Analysis of Relay-Assisted All-Optical FSO Networks Over Strong Atmospheric Turbulence Channels With Pointing Errors. Journal of Lightwave Technology, 2014, 32, 4613-4620.	2.7	69
153	Optimized Smart Grid Energy Procurement for LTE Networks Using Evolutionary Algorithms. IEEE Transactions on Vehicular Technology, 2014, 63, 4508-4519.	3.9	69
154	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.	3.5	69
155	Artificial Intelligence for UAV-Enabled Wireless Networks: A Survey. IEEE Open Journal of the Communications Society, 2021, 2, 1015-1040.	4.4	69
156	Resource allocation in heterogeneous cloud radio access networks: advances and challenges. IEEE Wireless Communications, 2015, 22, 66-73.	6.6	68
157	Impact of correlation on the capacity of MIMO channels. , 0, , .		67
158	A Hybrid Energy Sharing Framework for Green Cellular Networks. IEEE Transactions on Communications, 2017, 65, 918-934.	4.9	67
159	A Closed-Form Expression for the Exact BER of Generalized PAM and QAM Constellations. IEEE Transactions on Communications, 2004, 52, 698-700.	4.9	66
160	A Novel Unified Expression for the Capacity and Bit Error Probability of Wireless Communication Systems over Generalized Fading Channels. IEEE Transactions on Communications, 2012, 60, 1862-1876.	4.9	66
161	Performance Analysis of Free-Space Optical Communication Systems With Multiuser Diversity Over Atmospheric Turbulence Channels. IEEE Photonics Journal, 2014, 6, 1-17.	1.0	66
162	Achievable Rates of UAV-Relayed Cooperative Cognitive Radio MIMO Systems. IEEE Access, 2017, 5, 5190-5204.	2.6	66

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163	Energy Harvesting Hybrid Acoustic-Optical Underwater Wireless Sensor Networks Localization. Sensors, 2018, 18, 51.	2.1	66
164	Optical camera communications: Survey, use cases, challenges, and future trends. Physical Communication, 2019, 37, 100900.	1.2	66
165	Beamforming Through Reconfigurable Intelligent Surfaces in Single-User MIMO Systems: SNR Distribution and Scaling Laws in the Presence of Channel Fading and Phase Noise. IEEE Wireless Communications Letters, 2021, 10, 77-81.	3.2	66
166	Performance Analysis of Amplify-and-Forward Two-Way Relaying with Co-Channel Interference and Channel Estimation Error. IEEE Transactions on Communications, 2013, 61, 2221-2231.	4.9	65
167	Closed-Loop Sparse Channel Estimation for Wideband Millimeter-Wave Full-Dimensional MIMO Systems. IEEE Transactions on Communications, 2019, 67, 8329-8345.	4.9	65
168	On Secure Mixed RF-FSO Systems With TAS and Imperfect CSI. IEEE Transactions on Communications, 2020, 68, 4461-4475.	4.9	65
169	Performance Bounds for Two-Way Amplify-and-Forward Relaying Based on Relay Path Selection. , 2009, , .		64
170	Effect of RF Interference on the Security-Reliability Tradeoff Analysis of Multiuser Mixed RF/FSO Relay Networks With Power Allocation. Journal of Lightwave Technology, 2017, 35, 1490-1505.	2.7	64
171	Broadband Channel Estimation for Intelligent Reflecting Surface Aided mmWave Massive MIMO Systems. , 2020, , .		64
172	Exact Performance Analysis of MIMO Cognitive Radio Systems Using Transmit Antenna Selection. IEEE Journal on Selected Areas in Communications, 2014, 32, 425-438.	9.7	63
173	Joint Optimization of Power Allocation and Load Balancing for Hybrid VLC/RF Networks. Journal of Optical Communications and Networking, 2018, 10, 553.	3.3	63
174	On the 3-D Placement of Airborne Base Stations Using Tethered UAVs. IEEE Transactions on Communications, 2020, 68, 5202-5215.	4.9	63
175	Investigation and Demonstration of High Speed Full-Optical Hybrid FSO/Fiber Communication System Under Light Sand Storm Condition. IEEE Photonics Journal, 2017, 9, 1-12.	1.0	62
176	Downlink Non-Orthogonal Multiple Access (NOMA) in Poisson Networks. IEEE Transactions on Communications, 2019, 67, 1613-1628.	4.9	62
177	On Integrated Access and Backhaul Networks: Current Status and Potentials. IEEE Open Journal of the Communications Society, 2020, 1, 1374-1389.	4.4	62
178	On Multiple Users Scheduling Using Superposition Coding over Rayleigh Fading Channels. IEEE Communications Letters, 2013, 17, 733-736.	2.5	61
179	MGF Approach to the Analysis of Generalized Two-Ray Fading Models. IEEE Transactions on Wireless Communications, 2015, , 1-1.	6.1	61
180	Performance Analysis of FSO Links over Unified Gamma-Gamma Turbulence Channels. , 2015, , .		61

#	ARTICLE	IF	CITATIONS
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