

Mohamed-Slim Alouini

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1,474
papers

37,413
citations

78
h-index

156
g-index

1,753
ext. papers

47,965
ext. citations

6
avg, IF

8.36
L-index

#	Paper	IF	Citations
1474	2000,		1923
1473	On the Energy Detection of Unknown Signals Over Fading Channels. <i>IEEE Transactions on Communications</i> , 2007 , 55, 21-24	6.9	1102
1472	2004,		952
1471	End-to-end performance of transmission systems with relays over Rayleigh-fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2003 , 2, 1126-1131	9.6	872
1470	Wireless Communications Through Reconfigurable Intelligent Surfaces. <i>IEEE Access</i> , 2019 , 7, 116753-116773	3.3	833
1469	Capacity of Rayleigh fading channels under different adaptive transmission and diversity-combining techniques. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1165-1181	6.8	605
1468	Smart radio environments empowered by reconfigurable AI meta-surfaces: an idea whose time has come. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2019 , 2019,	3.2	580
1467	On the energy detection of unknown signals over fading channels		545
1466	. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 2450-2525	14.2	525
1465	A performance study of dual-hop transmissions with fixed gain relays. <i>IEEE Transactions on Wireless Communications</i> , 2004 , 3, 1963-1968	9.6	516
1464	A new simple model for land mobile satellite channels: first- and second-order statistics. <i>IEEE Transactions on Wireless Communications</i> , 2003 , 2, 519-528	9.6	486
1463	Adaptive Modulation over Nakagami Fading Channels. <i>Wireless Personal Communications</i> , 2000 , 13, 119-143	1.9	438
1462	A unified approach to the performance analysis of digital communication over generalized fading channels. <i>Proceedings of the IEEE</i> , 1998 , 86, 1860-1877	14.3	403
1461	What should 6G be?. <i>Nature Electronics</i> , 2020 , 3, 20-29	28.4	401
1460	Outage probability of multihop transmission over Nakagami fading channels. <i>IEEE Communications Letters</i> , 2003 , 7, 216-218	3.8	373
1459	A unified approach for calculating error rates of linearly modulated signals over generalized fading channels. <i>IEEE Transactions on Communications</i> , 1999 , 47, 1324-1334	6.9	359
1458	A Survey of Channel Modeling for UAV Communications. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 2804-2821	37.1	354

1457	Optimal power allocation for relayed transmissions over Rayleigh-fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2004 , 3, 1999-2004	9.6	347
1456	Harmonic mean and end-to-end performance of transmission systems with relays. <i>IEEE Transactions on Communications</i> , 2004 , 52, 130-135	6.9	316
1455	Area spectral efficiency of cellular mobile radio systems. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1047-1066	6.8	308
1454	A New Formula for the BER of Binary Modulations with Dual-Branch Selection over Generalized-K Composite Fading Channels. <i>IEEE Transactions on Communications</i> , 2011 , 59, 2654-2658	6.9	269
1453	How much feedback is multi-user diversity really worth? 2004 ,		268
1452	An MGF-based performance analysis of generalized selection combining over Rayleigh fading channels. <i>IEEE Transactions on Communications</i> , 2000 , 48, 401-415	6.9	263
1451	Modeling and Analysis of Cellular Networks Using Stochastic Geometry: A Tutorial. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 167-203	37.1	254
1450	FSO-Based Vertical Backhaul/Fronthaul Framework for 5G+ Wireless Networks 2018 , 56, 218-224		245
1449	Analytical Modeling of Mode Selection and Power Control for Underlay D2D Communication in Cellular Networks. <i>IEEE Transactions on Communications</i> , 2014 , 62, 4147-4161	6.9	233
1448	Sum of gamma variates and performance of wireless communication systems over Nakagami-fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 1471-1480	6.8	221
1447	Largest eigenvalue of complex Wishart matrices and performance analysis of MIMO MRC systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2003 , 21, 418-426	14.2	218
1446	Performance Analysis of Free-Space Optical Links Over M _l ga (\mathcal{M}) Turbulence Channels With Pointing Errors. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 91-102	9.6	217
1445	Impact of Pointing Errors on the Performance of Mixed RF/FSO Dual-Hop Transmission Systems. <i>IEEE Wireless Communications Letters</i> , 2013 , 2, 351-354	5.9	202
1444	4.8 Gbit/s 16-QAM-OFDM transmission based on compact 450-nm laser for underwater wireless optical communication. <i>Optics Express</i> , 2015 , 23, 23302-9	3.3	189
1443	Capacity of MIMO Rician channels. <i>IEEE Transactions on Wireless Communications</i> , 2006 , 5, 112-122	9.6	165
1442	Performance Analysis of Mixed Nakagami- m and Gamma-Gamma Dual-Hop FSO Transmission Systems. <i>IEEE Photonics Journal</i> , 2015 , 7, 1-20	1.8	164
1441	Joint Trajectory and Precoding Optimization for UAV-Assisted NOMA Networks. <i>IEEE Transactions on Communications</i> , 2019 , 67, 3723-3735	6.9	161
1440	Asymptotic Max-Min SINR Analysis of Reconfigurable Intelligent Surface Assisted MISO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7748-7764	9.6	157

1439	20-meter underwater wireless optical communication link with 1.5 Gbps data rate. <i>Optics Express</i> , 2016 , 24, 25502-25509	3.3	145
1438	Effect of channel estimation error on M-QAM BER performance in Rayleigh fading. <i>IEEE Transactions on Communications</i> , 1999 , 47, 1856-1864	6.9	138
1437	Physical Layer Security for Cooperative NOMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4645-4649	6.8	137
1436	Underwater optical wireless communications, networking, and localization: A survey. <i>Ad Hoc Networks</i> , 2019 , 94, 101935	4.8	135
1435	Multiple UAVs as Relays: Multi-Hop Single Link Versus Multiple Dual-Hop Links. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6348-6359	9.6	134
1434	2.3 Gbit/s underwater wireless optical communications using directly modulated 520 nm laser diode. <i>Optics Express</i> , 2015 , 23, 20743-8	3.3	130
1433	A unified approach to the probability of error for noncoherent and differentially coherent modulations over generalized fading channels. <i>IEEE Transactions on Communications</i> , 1998 , 46, 1625-1638	6.9	130
1432	Intelligent Reflecting Surface-Assisted Multi-User MISO Communication: Channel Estimation and Beamforming Design. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 661-680	6.7	128
1431	Outage probability of diversity systems over generalized fading channels. <i>IEEE Transactions on Communications</i> , 2000 , 48, 1783-1787	6.9	126
1430	A Survey of NOMA: Current Status and Open Research Challenges. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 179-189	6.7	121
1429	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 1-32	6.7	121
1428	A recursive algorithm for the exact BER computation of generalized hierarchical QAM constellations. <i>IEEE Transactions on Information Theory</i> , 2003 , 49, 297-307	2.8	118
1427	On the Performance Analysis of Dual-Hop Mixed FSO/RF Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3679-3689	9.6	115
1426	Secrecy Capacity Analysis Over α - μ Fading Channels. <i>IEEE Communications Letters</i> , 2017 , 21, 1445-1448	3.8	110
1425	Performance Analysis of Multiuser Selection Diversity. <i>IEEE Transactions on Vehicular Technology</i> , 2006 , 55, 1848-1861	6.8	109
1424	Product of the Powers of Generalized Nakagami-m Variates and Performance of Cascaded Fading Channels 2009 ,		106
1423	On Secure NOMA Systems With Transmit Antenna Selection Schemes. <i>IEEE Access</i> , 2017 , 5, 17450-17464	3.5	105
1422	Performance analysis of two-hop relayed transmissions over Rayleigh fading channels		105

1421	Performance of coherent receivers with hybrid SC/MRC over Nakagami-m fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 1999 , 48, 1155-1164	6.8	104
1420	Practical Switching-Based Hybrid FSO/RF Transmission and Its Performance Analysis. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-13	1.8	103
1419	Order Statistics in Wireless Communications: Diversity, Adaptation, and Scheduling in MIMO and OFDM Systems 2011 ,		103
1418	On the Jamming Power Allocation for Secure Amplify-and-Forward Relaying via Cooperative Jamming. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1741-1750	14.2	101
1417	. <i>Proceedings of the IEEE</i> , 2020 , 108, 533-582	14.3	100
1416	A Unified MGF-Based Capacity Analysis of Diversity Combiners over Generalized Fading Channels. <i>IEEE Transactions on Communications</i> , 2012 , 60, 862-875	6.9	98
1415	Effect of Primary User Traffic on Sensing-Throughput Tradeoff for Cognitive Radios. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1063-1068	9.6	96
1414	Next Generation Terahertz Communications: A Rendezvous of Sensing, Imaging, and Localization. <i>IEEE Communications Magazine</i> , 2020 , 58, 69-75	9.1	95
1413	Free-Space Optical Communications: Capacity Bounds, Approximations, and a New Sphere-Packing Perspective. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1176-1191	6.9	94
1412	A comparative study on the performance of MIMO MRC systems with and without cochannel interference. <i>IEEE Transactions on Communications</i> , 2004 , 52, 1417-1425	6.9	93
1411	Performance analysis of multibranch switched diversity systems. <i>IEEE Transactions on Communications</i> , 2003 , 51, 782-794	6.9	92
1410	Dual diversity over correlated log-normal fading channels. <i>IEEE Transactions on Communications</i> , 2002 , 50, 1946-1959	6.9	90
1409	Analysis and optimization of switched diversity systems. <i>IEEE Transactions on Vehicular Technology</i> , 2000 , 49, 1813-1831	6.8	90
1408	On Secure Underlay MIMO Cognitive Radio Networks With Energy Harvesting and Transmit Antenna Selection. <i>IEEE Transactions on Green Communications and Networking</i> , 2017 , 1, 192-203	4	88
1407	Outage Analysis for Underlay Cognitive Networks Using Incremental Regenerative Relaying. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 721-734	6.8	86
1406	On the Capacity-Fairness Tradeoff in Multiuser Diversity Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2007 , 56, 1901-1907	6.8	86
1405	Deep Denoising Neural Network Assisted Compressive Channel Estimation for mmWave Intelligent Reflecting Surfaces. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 9223-9228	6.8	84
1404	Communicating Using Spatial Mode Multiplexing: Potentials, Challenges, and Perspectives. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3175-3203	37.1	83

1403	Wireless Energy Harvesting Using Signals From Multiple Fading Channels. <i>IEEE Transactions on Communications</i> , 2017 , 65, 5027-5039	6.9	83
1402	Performance analysis of incremental opportunistic relaying over identically and non-identically distributed cooperative paths. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1953-1961	9.6	83
1401	Channel Capacity of Adaptive Transmission With Maximal Ratio Combining in Correlated Rayleigh Fading. <i>IEEE Transactions on Wireless Communications</i> , 2004 , 3, 1124-1133	9.6	83
1400	On Optimizing VLC Networks for Downlink Multi-User Transmission: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 2947-2976	37.1	81
1399	Outdoor FSO Communications Under Fog: Attenuation Modeling and Performance Evaluation. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-22	1.8	81
1398	A unified performance analysis of digital communication with dual selective combining diversity over correlated Rayleigh and Nakagami-m fading channels. <i>IEEE Transactions on Communications</i> , 1999 , 47, 33-43	6.9	81
1397	. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 1829-1840	14.2	79
1396	Spatiotemporal Stochastic Modeling of IoT Enabled Cellular Networks: Scalability and Stability Analysis. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	78
1395	Cost-effective hybrid RF/FSO backhaul solution for next generation wireless systems. <i>IEEE Wireless Communications</i> , 2015 , 22, 98-104	13.4	78
1394	Handover Management in 5G and Beyond: A Topology Aware Skipping Approach. <i>IEEE Access</i> , 2016 , 4, 9073-9081	3.5	78
1393	Ergodic Capacity of Cognitive Radio Under Imperfect Channel-State Information. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 2108-2119	6.8	76
1392	On the performance analysis of composite multipath/shadowing channels using the G-distribution. <i>IEEE Transactions on Communications</i> , 2009 , 57, 1162-1170	6.9	75
1391	Secrecy Outage Analysis of Mixed RF-FSO Downlink SWIPT Systems. <i>IEEE Transactions on Communications</i> , 2018 , 66, 6384-6395	6.9	73
1390	Capacity of correlated MIMO Rayleigh channels. <i>IEEE Transactions on Wireless Communications</i> , 2006 , 5, 143-155	9.6	72
1389	Secrecy Outage Analysis for Cooperative NOMA Systems With Relay Selection Schemes. <i>IEEE Transactions on Communications</i> , 2019 , 67, 6282-6298	6.9	71
1388	On Secrecy Performance of Mixed RF-FSO Systems. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-14	1.8	71
1387	Fourier-Based Transmit Beampattern Design Using MIMO Radar. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2226-2235	4.8	69
1386	Outage Analysis of Practical FSO/RF Hybrid System With Adaptive Combining. <i>IEEE Communications Letters</i> , 2015 , 19, 1366-1369	3.8	68

1385	On the Outage Performance of Full-Duplex Selective Decode-and-Forward Relaying. <i>IEEE Communications Letters</i> , 2013 , 17, 1180-1183	3.8	68
1384	Exponential-type bounds on the generalized Marcum Q-function with application to error probability analysis over fading channels. <i>IEEE Transactions on Communications</i> , 2000 , 48, 359-366	6.9	68
1383	Unified Statistical Channel Model for Turbulence-Induced Fading in Underwater Wireless Optical Communication Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2893-2907	6.9	68
1382	Ergodic Capacity Analysis of Free-Space Optical Links With Nonzero Boresight Pointing Errors. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 4248-4264	9.6	67
1381	CubeSat Communications: Recent Advances and Future Challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 1839-1862	37.1	67
1380	Design of 5G Full Dimension Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , 2018 , 66, 726-740	6.9	67
1379	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. <i>Optics Express</i> , 2015 , 23, 33656-66	3.3	66
1378	On the Power and Offset Allocation for Rate Adaptation of Spatial Multiplexing in Optical Wireless MIMO Channels. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1535-1543	6.9	66
1377	BER computation of 4/M-QAM hierarchical constellations. <i>IEEE Transactions on Broadcasting</i> , 2001 , 47, 228-239	4.7	66
1376	Terahertz communication: The opportunities of wireless technology beyond 5G 2018 ,		66
1375	Security-Reliability Trade-Off Analysis for Multiuser SIMO Mixed RF/FSO Relay Networks With Opportunistic User Scheduling. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 5904-5918	9.6	64
1374	A Stochastic Geometry Model for Multi-Hop Highway Vehicular Communication. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 2276-2291	9.6	64
1373	Exact BER computation for cross QAM constellations. <i>IEEE Transactions on Wireless Communications</i> , 2005 , 4, 3039-3050	9.6	64
1372	Optimal Design of Dual-Hop VLC/RF Communication System With Energy Harvesting. <i>IEEE Communications Letters</i> , 2016 , 20, 1979-1982	3.8	62
1371	MIMO Radar Transmit Beampattern Design Without Synthesising the Covariance Matrix. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2278-2289	4.8	62
1370	A new simple model for composite fading channels: Second order statistics and channel capacity 2010 ,		62
1369	Capacity of Nakagami multipath fading channels		62
1368	Velocity-Aware Handover Management in Two-Tier Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1851-1867	9.6	61

1367	. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2040-2052	14.2	61
1366	Simple statistical channel model for weak temperature-induced turbulence in underwater wireless optical communication systems. <i>Optics Letters</i> , 2017 , 42, 2455-2458	3	61
1365	On the Asymptotic Capacity of Dual-Aperture FSO Systems With Generalized Pointing Error Model. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6502-6512	9.6	61
1364	Joint Reflecting and Precoding Designs for SER Minimization in Reconfigurable Intelligent Surfaces Assisted MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 5561-5574	9.6	60
1363	Secrecy Outage of MaxMin TAS Scheme in MIMO-NOMA Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6981-6990	6.8	60
1362	Dual-Hop FSO Transmission Systems Over GammaGamma Turbulence With Pointing Errors. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 784-796	9.6	60
1361	A Hybrid Energy Sharing Framework for Green Cellular Networks. <i>IEEE Transactions on Communications</i> , 2017 , 65, 918-934	6.9	59
1360	On the capacity of generalized-k fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 2441-2445	9.6	59
1359	Spectral and Energy Efficiency of IRS-Assisted MISO Communication With Hardware Impairments. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1366-1369	5.9	59
1358	Secrecy Outage Analysis of Mixed RF-FSO Systems With Channel Imperfection. <i>IEEE Photonics Journal</i> , 2018 , 10, 1-13	1.8	59
1357	Performance Evaluation of Underwater Wireless Optical Communications Links in the Presence of Different Air Bubble Populations. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-9	1.8	58
1356	Novel asymptotic results on the high-order statistics of the channel capacity over generalized fading channels 2012 ,		57
1355	Roadmap to free space optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, A1841-7	1.7	57
1354	Secrecy Analysis for Cooperative NOMA Networks With Multi-Antenna Full-Duplex Relay. <i>IEEE Transactions on Communications</i> , 2019 , 67, 5574-5587	6.9	56
1353	Accurate Outage Analysis of Incremental Decode-and-Forward Opportunistic Relaying. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1021-1025	9.6	56
1352	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1575-1589	6.8	55
1351	Performance Analysis of Relay-Assisted All-Optical FSO Networks Over Strong Atmospheric Turbulence Channels With Pointing Errors. <i>Journal of Lightwave Technology</i> , 2014 , 32, 4613-4620	4	55
1350	. <i>IEEE Wireless Communications</i> , 2015 , 22, 66-73	13.4	54

1349	Comparison of the level crossing rate and average fade duration of Rayleigh, Rice and Nakagami fading models with mobile channel data		54
1348	Achievable Rates of UAV-Relayed Cooperative Cognitive Radio MIMO Systems. <i>IEEE Access</i> , 2017 , 5, 5190-5204	5.3	53
1347	MIMO-Radar Waveform Covariance Matrix for High SINR and Low Side-Lobe Levels. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 2056-2065	4.8	53
1346	On Secrecy Outage of Relay Selection in Underlay Cognitive Radio Networks Over Nakagami- m Fading Channels. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2017 , 3, 614-627	6.6	53
1345	An adaptive modulation scheme for simultaneous voice and data transmission over fading channels. <i>IEEE Journal on Selected Areas in Communications</i> , 1999 , 17, 837-850	14.2	53
1344	MRC and GSC diversity combining with an output threshold. <i>IEEE Transactions on Vehicular Technology</i> , 2005 , 54, 1081-1090	6.8	52
1343	Intelligent Surfaces for 6G Wireless Networks: A Survey of Optimization and Performance Analysis Techniques. <i>IEEE Access</i> , 2020 , 8, 202795-202818	3.5	52
1342	GMD-Based Hybrid Beamforming for Large Reconfigurable Intelligent Surface Assisted Millimeter-Wave Massive MIMO. <i>IEEE Access</i> , 2020 , 8, 19530-19539	3.5	51
1341	Optimized Smart Grid Energy Procurement for LTE Networks Using Evolutionary Algorithms. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 4508-4519	6.8	51
1340	Performance Analysis of Amplify-and-Forward Two-Way Relaying with Co-Channel Interference and Channel Estimation Error. <i>IEEE Transactions on Communications</i> , 2013 , 61, 2221-2231	6.9	51
1339	On Multiple Users Scheduling Using Superposition Coding over Rayleigh Fading Channels. <i>IEEE Communications Letters</i> , 2013 , 17, 733-736	3.8	51
1338	Adaptive hierarchical modulation for simultaneous voice and multiclass data transmission over fading channels. <i>IEEE Transactions on Vehicular Technology</i> , 2006 , 55, 1181-1194	6.8	51
1337	Sum and difference of two squared correlated Nakagami variates in connection with the McKay distribution. <i>IEEE Transactions on Communications</i> , 2004 , 52, 1367-1376	6.9	51
1336	Performance analysis of cellular mobile systems with successive co-channel interference cancellation. <i>IEEE Transactions on Wireless Communications</i> , 2003 , 2, 29-40	9.6	51
1335	An Overview of Physical Layer Security in Wireless Communication Systems With CSIT Uncertainty. <i>IEEE Access</i> , 2016 , 4, 6121-6132	3.5	51
1334	Coverage, Probability of SNR Gain, and DOR Analysis of RIS-Aided Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1268-1272	5.9	51
1333	Effect of RF Interference on the Security-Reliability Tradeoff Analysis of Multiuser Mixed RF/FSO Relay Networks With Power Allocation. <i>Journal of Lightwave Technology</i> , 2017 , 35, 1490-1505	4	50
1332	Power Control for D2D Underlay Cellular Networks With Channel Uncertainty. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1330-1343	9.6	50

1331	A State-of-the-Art Survey on Multidimensional Scaling-Based Localization Techniques. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3565-3583	37.1	49
1330	. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 425-438	14.2	49
1329	MGF Approach to the Analysis of Generalized Two-Ray Fading Models. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 1-1	9.6	49
1328	A Novel Unified Expression for the Capacity and Bit Error Probability of Wireless Communication Systems over Generalized Fading Channels. <i>IEEE Transactions on Communications</i> , 2012 , 60, 1862-1876	6.9	49
1327	Green heterogeneous small-cell networks: toward reducing the CO2 emissions of mobile communications industry using uplink power adaptation 2013 , 51, 52-61		48
1326	Half-Duplex and Full-Duplex AF and DF Relaying With Energy-Harvesting in Log-Normal Fading. <i>IEEE Transactions on Green Communications and Networking</i> , 2017 , 1, 468-480	4	48
1325	Secure Transmission for Intelligent Reflecting Surface-Assisted mmWave and Terahertz Systems. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1743-1747	5.9	47
1324	Hybrid Radio/Free-Space Optical Design for Next Generation Backhaul Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 2563-2577	6.9	47
1323	Light based underwater wireless communications. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 08PA061.4		47
1322	Performance Bounds for Two-Way Amplify-and-Forward Relaying Based on Relay Path Selection 2009 ,		47
1321	Impact of correlation on the capacity of MIMO channels		47
1320	Analysis and compensation of I/Q imbalance in amplify-and-forward cooperative systems 2012 ,		46
1319	. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 330-337	9.6	46
1318	. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1985-1989	5.9	46
1317	Instantly decodable network coding for real-time device-to-device communications. <i>Eurasip Journal on Advances in Signal Processing</i> , 2016 , 2016,	1.9	45
1316	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 3456-3470	9.6	45
1315	Average Bit Error Probability of Binary Coherent Signaling over Generalized Fading Channels Subject to Additive Generalized Gaussian Noise. <i>IEEE Communications Letters</i> , 2012 , 16, 785-788	3.8	45
1314	A Threshold-Based Channel State Feedback Algorithm for Modern Cellular Systems. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 2422-2426	9.6	45

1313	. <i>IEEE Transactions on Vehicular Technology</i> , 2002 , 51, 1018-1029	6.8	45
1312	. <i>IEEE Transactions on Vehicular Technology</i> , 2001 , 50, 1449-1463	6.8	45
1311	Non-Orthogonal Multiple Access for Large-Scale 5G Networks: Interference Aware Design. <i>IEEE Access</i> , 2017 , 5, 21204-21216	3.5	44
1310	A closed-form expression for the exact BER of generalized PAM and QAM constellations. <i>IEEE Transactions on Communications</i> , 2004 , 52, 698-700	6.9	44
1309	Modeling Cellular Networks With Full-Duplex D2D Communication: A Stochastic Geometry Approach. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4409-4424	6.9	44
1308	Fundamental Limits of Parallel Optical Wireless Channels: Capacity Results and Outage Formulation. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	43
1307	Joint Optimization of Power Allocation and Load Balancing for Hybrid VLC/RF Networks. <i>Journal of Optical Communications and Networking</i> , 2018 , 10, 553	4.1	43
1306	Toward the Internet of Underground Things: A Systematic Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3443-3466	37.1	43
1305	On the Secrecy Capacity of MISO Visible Light Communication Channels 2016 ,		43
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