Imran Shafique Ansari

List of Publications by Year in Descending Order

109 papers	2,914 citations	27 h-index	51 g-index
123 ext. papers	3,533 ext. citations	4.1 avg, IF	5.85 L-index

#	Paper	IF	Citations
109	Enhancing Security of TAS/MRC-Based Mixed RF-UOWC System With Induced Underwater Turbulence Effect. *IEEE Systems Journal*, **2021**, 1-12	4.3	2
108	Trajectory Design and Communication Resources Allocation for Wireless Powered Secure UAV Communication Systems. *IEEE Systems Journal*, **2021**, 1-9	4.3	1
107	Applications of Meijer Factorization Theorems in Performance Analyses of All-Optical Multi-Hop FSO Systems. *IEEE Transactions on Wireless Communications*, **2021**, 20, 2078-2091	9.6	2
106	Impact of Correlation and Pointing Error on Secure Outage Performance Over Arbitrary Correlated Nakagami-m and $mathcal {M}$-Turbulent Fading Mixed RF-FSO Channel. *IEEE Photonics Journal*, **2021**, 13, 1-17	1.8	10
105	Demystifying Futuristic Satellite Networks: Requirements, Security Threats, and Issues **2021**, 261-273		
104	Role of D2D Communications in Mobile Health Applications: Security Threats and Requirements **2021**, 169-185		
103	Iterative Signal Detection Under Timing Errors for Optical Wireless Links with High Mobility. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	1
102	Security at the Physical Layer Over GG Fading and mEGG Turbulence Induced RF-UOWC Mixed System. *IEEE Access*, **2021**, 9, 18123-18136	3.5	6
101	Outage and Error Analysis of Dual-Hop TAS/MRC MIMO RF-UOWC Systems. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	7
100	On the Intercept Probability and Secure Outage Analysis of Mixed (-Shadowed and M aga Turbulent Models. *IEEE Access*, **2021**, 1-1	3.5	1
99	Secrecy Performance Analysis of Mixed and Exponentiated Weibull RF-FSO Cooperative Relaying System. *IEEE Access*, **2021**, 9, 72342-72356	3.5	11
98	UAV-Assisted Free Space Optical Communication System With Amplify-and-Forward Relaying. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 8926-8936	6.8	6
97	On the Performance of Mixed FSO-UWOC Dual-Hop Transmission Systems. *IEEE Wireless Communications Letters*, **2021**, 10, 2041-2045	5.9	7
96	Secrecy performance of shadowed fading channel. *ICT Express*, **2021**,	4.9	2
95	On Secure NOMA-based Terrestrial and Aerial IoT Systems. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	1
94	On Secrecy Performance of Mixed Generalized Gamma and M aga RF-FSO Variable Gain Relaying Channel. *IEEE Access*, **2020**, 8, 104127-104138	3.5	13
93	Mitigating distributed denial of service attacks in satellite networks. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3936	1.9	1

92	On the Physical Layer Security of a Decode and Forward Based Mixed FSO/RF Co-Operative System. *IEEE Wireless Communications Letters*, **2020**, 1-1	5.9	7
91	Secrecy enhancement of RF backhaul system with parallel FSO communication link. *Optics Communications*, **2020**, 475, 126193	2	21
90	Mixed Dual-Hop FSO-RF Communication Systems Through Reconfigurable Intelligent Surface. *IEEE Communications Letters*, **2020**, 24, 1558-1562	3.8	43
89	Performance Analysis of Dual-Hop RF-UWOC Systems. *IEEE Photonics Journal*, **2020**, 12, 1-15	1.8	20
88	On Secure Mixed RF-FSO Systems With TAS and Imperfect CSI. *IEEE Transactions on Communications* , **2020**, 68, 4461-4475	6.9	37
87	Channel Modeling for UAV-Based Optical Wireless Links With Nonzero Boresight Pointing Errors. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 14238-14246	6.8	12
86	Safeguarding UAV IoT Communication Systems Against Randomly Located Eavesdroppers. *IEEE Internet of Things Journal*, **2020**, 7, 1230-1244	10.7	25
85	Performance Evaluation of Relay-Aided CR-NOMA for Beyond 5G Communications. *IEEE Access*, **2020**, 8, 134838-134855	3.5	27
84	Secrecy Performance Analysis of Mixed Hyper-Gamma and Gamma-Gamma Cooperative Relaying System. *IEEE Access*, **2020**, 8, 131273-131285	3.5	10
83	On the Performance of Dual-Hop RF-UWOC System **2020**,		1
82	On Secure Downlink NOMA Systems With Outage Constraint. *IEEE Transactions on Communications*, **2020**, 68, 7824-7836	6.9	13
81	A Business and Legislative Perspective of V2X and Mobility Applications in 5G Networks. *IEEE Access*, **2020**, 8, 67426-67435	3.5	5
80	Outage of Cognitive Electric Vehicle Networks Over Mixed RF/VLC Channels With Signal-Dependent Noise and Imperfect CSI. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6828-6832	6.8	6
79	Tractable Optical Channel Modeling Between UAVs. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 11543-11550	6.8	27
78	Performance analysis of the decode-and-forward relay-based RF-FSO communication system in the presence of pointing errors. *IET Signal Processing*, **2019**, 13, 480-485	1.7	7
77	Secrecy Outage Analysis for Cooperative NOMA Systems With Relay Selection Schemes. *IEEE Transactions on Communications*, **2019**, 67, 6282-6298	6.9	71
76	Performance Analysis of Relay Assisted Mixed Dual-Hop RF-FSO Systems with Pointing Errors. *Lecture Notes in Electrical Engineering*, **2019**, 15-29	0.2	2
75	Performance Analysis of Relaying FSO System over (mathcal {M})-Distributed Turbulent Channel with Variable Gain AF Protocol. *Lecture Notes in Electrical Engineering*, **2019**, 3-13	0.2	

74	Outage Probability of a Multisensor Mixed UOWC□FSO Setup **2019**, 3, 1-4		14
73	Integrating Public Safety Networks to 5G: Applications and Standards **2019**, 233-251		3
72	On Physical Layer Security of Multiple-Relay Assisted NOMA Systems **2019**,		3
71	Adaptive Channel Coding and Power Control for Practical FSO Communication Systems Under Channel Estimation Error. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 7566-7577	6.8	20
70	Trust-Based DoS Mitigation Technique for Medical Implants in Wireless Body Area Networks **2019**,		3
69	Generalized channel estimation and data detection for MIMO multiplexing FSO parallel channels over limited space. *Optics Communications*, **2019**, 452, 158-168	2	10
68	Process Mining and User Privacy in D2D and IoT Networks. *Informatik-Spektrum*, **2019**, 42, 340-342	0.3	0
67	Statistical characterisation and analysis of differential correlation-based frame detector. *IET Communications*, **2019**, 13, 2678-2687	1.3	
66	Error rate and ergodic capacity of RF-FSO system with partial relay selection in the presence of pointing errors. *Optics Communications*, **2019**, 438, 118-125	2	7
65	Technologies and Solutions for Location-Based Services in Smart Cities: Past, Present, and Future. *IEEE Access*, **2018**, 6, 22240-22248	3.5	17
64	Nonorthogonal Multiple Access for 5G and Beyond. *Wireless Communications and Mobile Computing* , **2018**, 2018, 1-2	1.9	9
63	A marketplace for efficient and secure caching for IoT applications in 5G networks **2018**,		2
62	Asymptotic Performance Analysis of Two-Way Relaying FSO Networks With Nonzero Boresight Pointing Errors Over Double-Generalized Gamma Fading Channels. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 7800-7805	6.8	13
61	Wireless energy harvesting in cooperative decode-and-forward relaying networks over mixed generalized □and □fading channels. *Transactions on Emerging Telecommunications Technologies* , **2018**, 29, e3262	1.9	7
60	An Energy Consumption Model for WiFi Direct Based D2D Communications **2018**,		3
59	Physical Layer Security for TAS/MRC Systems With and Without Co-Channel Interference Over eta□mu$ Fading Channels. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 12421-12426	6.8	32
58	Security in Wireless Body Area Networks: From In-Body to Off-Body Communications. *IEEE Access*, **2018**, 6, 58064-58074	3.5	24
57	. *IEEE Photonics Journal*, **2018**, 10, 1-17	1.8	48

56	Error analysis of TAS/MRC in Rayleigh fading channel with non-Gaussian noise. *Journal of the Franklin Institute*, **2018**, 355, 6877-6888	4	3
55	Free space optical communications with distributed switch-and-stay combining. *IET Communications*, **2018**, 12, 727-735	1.3	3
54	New results on the sum of Gamma random variates with application to the performance of wireless communication systems over Nakagami-m fading channels. *Transactions on Emerging Telecommunications Technologies*, **2017**, 28, e2912	1.9	21
53	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 2237-2250	6.8	93
52	Secrecy Capacity Analysis Over $alpha - mu $ Fading Channels. *IEEE Communications Letters*, **2017**, 21, 1445-1448	3.8	110
51	Performance Analysis of Dual-Hop DF Satellite Relaying over k-ﻑ Shadowed Fading Channels **2017**,		2
50	Unified Performance Analysis for Multiuser Mixed $eta $ - $mu $ and $mathcal {M}$ - Distribution Dual-Hop RF/FSO Systems. *IEEE Transactions on Communications*, **2017**, 1-1	6.9	31
49	Physical-Layer Security With Full-Duplex Transceivers and Multiuser Receiver at Eve. *IEEE Transactions on Communications*, **2017**, 65, 4392-4405	6.9	20
48	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	4	88
47	Outage Analysis of Mixed Underlay Cognitive RF MIMO and FSO Relaying With Interference Reduction. *IEEE Photonics Journal*, **2017**, 9, 1-22	1.8	25
46	Secrecy performance analysis of SIMO underlay cognitive radio systems with outdated CSI. *IET Communications*, **2017**, 11, 1961-1969	1.3	14
45	Towards bootstrapping trust in D2D using PGP and reputation mechanism **2017**,		7
44	On the ergodic secrecy capacity with full duplex communication **2017**,		2
43	On Secure NOMA Systems With Transmit Antenna Selection Schemes. *IEEE Access*, **2017**, 5, 17450-17464	3.5	105
42	Secrecy performance analysis with optimal DF relay selection of underlay CR networks over Nakagami-m fading channels **2017**,		2
41	Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. *IEEE Photonics Journal*, **2017**, 9, 1-11	1.8	28
40	On Secrecy Performance of Mixed RF-FSO Systems. *IEEE Photonics Journal*, **2017**, 9, 1-14	1.8	71
39	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	6.6	53

38	Performance analysis of adaptive modulation in underwater visible light communications **2017**,		2
37	Towards Energy Efficient Multi-Hop D2D Networks Using WiFi Direct **2017**,		4
36	Performance Analysis of Free-Space Optical Links Over M□aga ($mathcal{M} $) Turbulence Channels With Pointing Errors. *IEEE Transactions on Wireless Communications*, **2016**, 15, 91-102	9.6	217
35	Information Theoretical Limits of Free-Space Optical Links. *Signals and Communication Technology*, **2016**, 171-208	0.5	3
34	Physical-layer security over generalised-K fading channels. *IET Communications*, **2016**, 10, 2233-2237	1.3	14
33	Secrecy performance analysis of single-input multiple-output generalized-K fading channels. *Frontiers of Information Technology and Electronic Engineering*, **2016**, 17, 1074-1084	2.2	4
32	. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 8822-8831	6.8	20
31	Secrecy Outage Performance for SIMO Underlay Cognitive Radio Systems With Generalized Selection Combining Over Nakagami-m Channels. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 10126-10132	6.8	52
30	On Physical-Layer Security Over SIMO Generalized-K Fading Channels. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 7780-7785	6.8	61
29	Performance Analysis of Physical Layer Security Over Generalized-K Fading Channels Using a Mixture Gamma Distribution. *IEEE Communications Letters*, **2016**, 20, 408-411	3.8	82
28	Secrecy Outage Performance for Underlay MIMO CRNs with Energy Harvesting and Transmit Antenna Selection **2016**,		7
27	Security Performance Analysis of SIMO Generalized-K Fading Channels Using a Mixture Gamma Distribution **2016**,		6
26	Channel capacity analysis of a mixed dual-hop radio-frequency□free space optical transmission system with M□aga distribution. *IET Communications*, **2016**, 10, 2119-2124	1.3	17
25	Analysing self interference cancellation in full duplex radios **2016**,		12
24	Secrecy Outage Analysis for SIMO Underlay Cognitive Radio Networks over Generalized- K Fading Channels. *IEEE Signal Processing Letters*, **2016**, 1-1	3.2	17
23	On the Performance Analysis of Digital Communications over Weibull-Gamma Channels **2015**,		5
22	Performance Analysis of FSO Links over Unified Gamma-Gamma Turbulence Channels **2015**,		36
21	. *IEEE Journal on Selected Areas in Communications*, **2015**, 33, 1829-1840	14.2	79

20	Ergodic Capacity Analysis of Free-Space Optical Links With Nonzero Boresight Pointing Errors. *IEEE Transactions on Wireless Communications*, **2015**, 14, 4248-4264	9.6	67
19	Unified performance analysis of mixed line of sight RF-FSO fixed gain dual-hop transmission systems **2015**,		25
18	Asymptotic Ergodic Capacity Analysis of Composite Lognormal Shadowed Channels **2015**,		7
17	Performance Analysis of Mixed Nakagami- m and Gamma-Gamma Dual-Hop FSO Transmission Systems. *IEEE Photonics Journal*, **2015**, 7, 1-20	1.8	164
16	On the performance of free-space optical wireless communication systems over double generalized gamma fading channels **2014**,		8
15	On the performance of hybrid line of sight RF and RF-FSO fixed gain dual-hop transmission systems **2014**,		14
14	On the Capacity of FSO Links under Lognormal and Rician-Lognormal Turbulences **2014**,		14
13	A performance study of two hop transmission in mixed underlay RF and FSO fading channels **2014**,		23
12	On the maximum and minimum of two modified Gamma-Gamma variates with applications **2014**,		2
11	Outage performance analysis of underlay cognitive RF and FSO wireless channels **2014**,		21
10	Impact of Pointing Errors on the Performance of Mixed RF/FSO Dual-Hop Transmission Systems. *IEEE Wireless Communications Letters*, **2013**, 2, 351-354	5.9	202
9	On the Performance of Mixed RF/FSO Dual-Hop Transmission Systems **2013**,		21
8	On the Performance of Mixed RF/FSO Variable Gain Dual-Hop Transmission Systems with Pointing Errors **2013**,		40
7	On the performance of hybrid RF and RF/FSO dual-hop transmission systems **2013**,		19
6	On the performance of hybrid RF and RF/FSO fixed gain dual-hop transmission systems **2013**,		41
5	On the Sum of Squared eta-μ Random Variates with Application to the Performance of Wireless Communication Systems **2013**,		2
4	On the sum of gamma random variates with application to the performance of maximal ratio combining over Nakagami-m fading channels **2012**,		28
3	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	6.9	269

2 An Implementation of Traffic Light System Using Multi-hop Ad hoc Networks **2009**, 3

1 Biometrics for home networks security **2009**, 1