

S M Riazul Islam

List of Publications by Citations

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95
papers

4,362
citations

23
h-index

65
g-index

101
ext. papers

5,860
ext. citations

4.5
avg, IF

6.35
L-index

#	Paper	IF	Citations
95	. <i>IEEE Access</i> , 2015 , 3, 678-708	3.5	1502
94	Power-Domain Non-Orthogonal Multiple Access (NOMA) in 5G Systems: Potentials and Challenges. <i>IEEE Communications Surveys and Tutorials</i> , 2017 , 19, 721-742	37.1	1110
93	Resource Allocation for Downlink NOMA Systems: Key Techniques and Open Issues. <i>IEEE Wireless Communications</i> , 2018 , 25, 40-47	13.4	191
92	A smart healthcare monitoring system for heart disease prediction based on ensemble deep learning and feature fusion. <i>Information Fusion</i> , 2020 , 63, 208-222	16.7	173
91	An intelligent healthcare monitoring framework using wearable sensors and social networking data. <i>Future Generation Computer Systems</i> , 2021 , 114, 23-43	7.5	108
90	Type-2 fuzzy ontology-based recommendation systems for IoT-based healthcare. <i>Computer Communications</i> , 2018 , 119, 138-155	5.1	87
89	An Internet of Things-based health prescription assistant and its security system design. <i>Future Generation Computer Systems</i> , 2018 , 82, 422-439	7.5	79
88	Fuzzy ontology-based sentiment analysis of transportation and city feature reviews for safe traveling. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 77, 33-48	8.4	76
87	A study of MAC protocols for WBANs. <i>Sensors</i> , 2010 , 10, 128-45	3.8	73
86	D-MoSK Modulation in Molecular Communications. <i>IEEE Transactions on Nanobioscience</i> , 2015 , 14, 680-3	3.4	54
85	Multimodal multitask deep learning model for Alzheimer's disease progression detection based on time series data. <i>Neurocomputing</i> , 2020 , 412, 197-215	5.4	40
84	Plasmonic temperature sensor using D-shaped photonic crystal fiber. <i>Results in Physics</i> , 2020 , 16, 102966	3.7	39
83	Multomics Analysis Reveals that GLS and GLS2 Differentially Modulate the Clinical Outcomes of Cancer. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	37
82	Energy Saving Mechanisms for MAC Protocols in Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2010 , 6, 163413	1.7	36
81	End-To-End Deep Learning Framework for Coronavirus (COVID-19) Detection and Monitoring. <i>Electronics (Switzerland)</i> , 2020 , 9, 1439	2.6	36
80	A power efficient MAC protocol for wireless body area networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	30
79	Preamble-based improved channel estimation for multiband UWB system in presence of interferences. <i>Telecommunication Systems</i> , 2013 , 52, 1-14	2.3	28

78	A multilayer multimodal detection and prediction model based on explainable artificial intelligence for Alzheimer's disease. <i>Scientific Reports</i> , 2021 , 11, 2660	4.9	27
77	Merged Ontology and SVM-Based Information Extraction and Recommendation System for Social Robots. <i>IEEE Access</i> , 2017 , 5, 12364-12379	3.5	26
76	On Downlink NOMA in Heterogeneous Networks With Non-Uniform Small Cell Deployment. <i>IEEE Access</i> , 2018 , 6, 31099-31109	3.5	25
75	Programmable Molecular Scissors: Applications of a New Tool for Genome Editing in Biotech. <i>Molecular Therapy - Nucleic Acids</i> , 2019 , 14, 212-238	10.7	25
74	Numerical development of high performance quasi D-shape PCF-SPR biosensor: An external sensing approach employing gold. <i>Results in Physics</i> , 2020 , 18, 103281	3.7	24
73	Numerical Study of Circularly Slotted Highly Sensitive Plasmonic Biosensor: A Novel Approach. <i>Results in Physics</i> , 2020 , 17, 103130	3.7	23
72	The IoT: Exciting Possibilities for Bettering Lives: Special application scenarios. <i>IEEE Consumer Electronics Magazine</i> , 2016 , 5, 49-57	3.2	22
71	. <i>IEEE Access</i> , 2020 , 8, 24120-24134	3.5	21
70	Mobile Health in Remote Patient Monitoring for Chronic Diseases: Principles, Trends, and Challenges. <i>Diagnostics</i> , 2021 , 11,	3.8	19
69	An IoT-Based Anonymous Function for Security and Privacy in Healthcare Sensor Networks. <i>Sensors</i> , 2019 , 19,	3.8	18
68	Software Defined Network-Based Multi-Access Edge Framework for Vehicular Networks. <i>IEEE Access</i> , 2020 , 8, 4220-4234	3.5	18
67	. <i>IEEE Access</i> , 2020 , 8, 228049-228069	3.5	18
66	Nonorthogonal Multiple Access (NOMA): How It Meets 5G and Beyond 2019 , 1-28		17
65	Capacity and outage analysis of a dual-hop decode-and-forward relay-aided NOMA scheme 2019 , 88, 138-148		16
64	High sensitivity hollow core circular shaped PCF surface plasmonic biosensor employing silver coat: A numerical design and analysis with external sensing approach. <i>Results in Physics</i> , 2020 , 16, 102909	3.7	16
63	Software-Defined Network-Based Vehicular Networks: A Position Paper on Their Modeling and Implementation. <i>Sensors</i> , 2019 , 19,	3.8	16
62	Asymmetrical D-channel photonic crystal fiber-based plasmonic sensor using the wavelength interrogation and lower birefringence peak method. <i>Results in Physics</i> , 2020 , 19, 103372	3.7	16
61	Systematic Multiomics Analysis of Alterations in C1QBP mRNA Expression and Relevance for Clinical Outcomes in Cancers. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	15

60	Statistical Characterization of a 3-D Propagation Model for V2V Channels in Rectangular Tunnels. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2392-2395	3.8	15
59	Machine Learning and Deep Learning Approaches for Brain Disease Diagnosis: Principles and Recent Advances. <i>IEEE Access</i> , 2021 , 9, 37622-37655	3.5	14
58	On Secrecy Performance of Mixed Generalized Gamma and Mloga RF-FSO Variable Gain Relaying Channel. <i>IEEE Access</i> , 2020 , 8, 104127-104138	3.5	13
57	Precision Medicine Informatics: Principles, Prospects, and Challenges. <i>IEEE Access</i> , 2020 , 8, 13593-13612	3.5	12
56	Multimedia communication over cognitive radio networks from QoS/QoE perspective: A comprehensive survey. <i>Journal of Network and Computer Applications</i> , 2020 , 172, 102759	7.9	12
55	Outage capacity and source distortion analysis for NOMA users in 5G systems. <i>Electronics Letters</i> , 2016 , 52, 1344-1345	1.1	12
54	CASH: Content- and Network-Context-Aware Streaming Over 5G HetNets. <i>IEEE Access</i> , 2018 , 6, 46167-46178	5.178	11
53	Secrecy Performance Analysis of Mixed α - β and Exponentiated Weibull RF-FSO Cooperative Relaying System. <i>IEEE Access</i> , 2021 , 9, 72342-72356	3.5	11
52	A comprehensive study of channel estimation for WBAN-based healthcare systems: feasibility of using multiband UWB. <i>Journal of Medical Systems</i> , 2012 , 36, 1553-67	5.1	10
51	Secrecy Performance Analysis of Mixed Hyper-Gamma and Gamma-Gamma Cooperative Relaying System. <i>IEEE Access</i> , 2020 , 8, 131273-131285	3.5	10
50	Impact of Correlation and Pointing Error on Secure Outage Performance Over Arbitrary Correlated Nakagami- m and M -Turbulent Fading Mixed RF-FSO Channel. <i>IEEE Photonics Journal</i> , 2021 , 13, 1-17	1.8	10
49	A Comprehensive Medical Decision Support Framework Based on a Heterogeneous Ensemble Classifier for Diabetes Prediction. <i>Electronics (Switzerland)</i> , 2019 , 8, 635	2.6	9
48	On PHY and MAC Performance in Body Sensor Networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	9
47	SCNN: Scalogram-based convolutional neural network to detect obstructive sleep apnea using single-lead electrocardiogram signals. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104532	7	9
46	Milled Microchannel-Assisted Open D-Channel Photonic Crystal Fiber Plasmonic Biosensor. <i>IEEE Access</i> , 2021 , 9, 2924-2933	3.5	9
45	Auto-Colorization of Historical Images Using Deep Convolutional Neural Networks. <i>Mathematics</i> , 2020 , 8, 2258	2.3	8
44	Secure crowd-sensing protocol for fog-based vehicular cloud. <i>Future Generation Computer Systems</i> , 2021 , 120, 61-75	7.5	8
43	RDSP: Rapidly Deployable Wireless Ad Hoc System for Post-Disaster Management. <i>Sensors</i> , 2020 , 20,	3.8	7

42	Control Plane Optimisation for an SDN-Based WBAN Framework to Support Healthcare Applications. <i>Sensors</i> , 2020 , 20,	3.8	7
41	Machine learning in the prediction of cancer therapy. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 4003-4017	6.8	7
40	AEF: Adaptive En-Route Filtering to Extend Network Lifetime in Wireless Sensor Networks. <i>Sensors</i> , 2019 , 19,	3.8	6
39	2008 ,		6
38	GAFOR: Genetic Algorithm Based Fuzzy Optimized Re-Clustering in Wireless Sensor Networks. <i>Mathematics</i> , 2021 , 9, 43	2.3	6
37	A highly sensitive quadruple D-shaped open channel photonic crystal fiber plasmonic sensor: A comparative study on materials effect. <i>Results in Physics</i> , 2021 , 23, 104050	3.7	6
36	Security at the Physical Layer Over GG Fading and mEGG Turbulence Induced RF-UOWC Mixed System. <i>IEEE Access</i> , 2021 , 9, 18123-18136	3.5	6
35	Two-Stage Channel Estimation With Estimated Windowing for MB-OFDM UWB System. <i>IEEE Communications Letters</i> , 2016 , 20, 272-275	3.8	5
34	Secure channel for molecular communications 2017 ,		5
33	Hybrid CNN-SVD Based Prominent Feature Extraction and Selection for Grading Diabetic Retinopathy Using Extreme Learning Machine Algorithm. <i>IEEE Access</i> , 2021 , 9, 152261-152274	3.5	5
32	Objective Diagnosis for Histopathological Images Based on Machine Learning Techniques: Classical Approaches and New Trends. <i>Mathematics</i> , 2020 , 8, 1863	2.3	5
31	Performance Analysis of IoT-Based Health and Environment WSN Deployment. <i>Sensors</i> , 2020 , 20,	3.8	5
30	A conceptual framework for an IoT-based health assistant and its authorization model 2018 ,		4
29	Joint Content Placement and Storage Allocation Based on Federated Learning in F-RANs. <i>Sensors</i> , 2020 , 21,	3.8	4
28	Channel estimation in ECMA-368-based UWB systems with unknown interference. <i>Telecommunication Systems</i> , 2011 , 52, 1159	2.3	3
27	A TR-UWB Downconversion Autocorrelation Receiver for Wireless Body Area Network. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009 , 2009,	3.2	3
26	. <i>IEEE Access</i> , 2021 , 9, 166147-166165	3.5	3
25	Simultaneous Cellular and D2D Communications Exploiting Cooperative Uplink NOMA. <i>IEEE Communications Letters</i> , 2021 , 25, 1848-1852	3.8	3

24	Fuzzy Domain Ontology-based Opinion Mining for Transportation Network Monitoring and City Features Map. <i>The Journal of the Korea Institute of Intelligent Transport Systems</i> , 2016 , 15, 109-118	0.2	2
23	IoTaaS: Drone Based Internet of Things as a Service Framework For Smart Cities. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	2
22	A Fuzzy System based Approach to Extend Network Lifetime for En-Route Filtering Schemes in WSNs 2019 ,		1
21	Physical Layer Security for Cooperative Multihop Routing in Wireless Networks 2019 ,		1
20	Energy-efficient channel estimation for MB-OFDM UWB system in presence of interferences 2010 ,		1
19	Environment Friendly Energy Cooperation in Neighboring Buildings: A Transformed Linearization Approach. <i>Energies</i> , 2022 , 15, 1160	3.1	1
18	Opportunistic Relay Selection Over Generalized Fading and Inverse Gamma Composite Fading Mixed Multicast Channels: A Secrecy Tradeoff. <i>IEEE Access</i> , 2021 , 9, 166184-166205	3.5	1
17	Device-to-Device Aided Cooperative Relaying Scheme Exploiting Spatial Modulation: An Interference Free Strategy. <i>Sensors</i> , 2020 , 20,	3.8	1
16	Kinematic Measurements of Novel Chaotic Micromixers to Enhance Mixing Performances at Low Reynolds Numbers: Comparative Study. <i>Micromachines</i> , 2021 , 12,	3.3	1
15	A novel framework for approximating resistance-temperature characteristics of a superconducting film based on artificial neural networks. <i>Results in Physics</i> , 2021 , 24, 104088	3.7	1
14	. <i>IEEE Access</i> , 2021 , 9, 54435-54456	3.5	1
13	Device-to-Device Aided Cooperative NOMA Transmission Exploiting Overheard Signal. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	1
12	On the Intercept Probability and Secure Outage Analysis of Mixed (MRC)-Shadowed and MRC-Turbulent Models. <i>IEEE Access</i> , 2021 , 1-1	3.5	1
11	Introducing Cloud-Assisted Micro-Service-Based Software Development Framework for Healthcare Systems. <i>IEEE Access</i> , 2022 , 10, 33332-33348	3.5	1
10	On Channel Estimation in MB-OFDM UWB Systems with Time Varying Dispersive Fading Channel. <i>International Journal of Digital Content Technology and Its Applications</i> , 2010 , 4, 18-24		0
9	Prognostic role of EGR1 in breast cancer: a systematic review. <i>BMB Reports</i> , 2021 , 54, 497-504	5.5	0
8	Modeling MAC Protocol Based on Frame Slotted Aloha for Low Energy Critical Infrastructure Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 701418	1.7	0
7	CATComp: A Compression-aware Authorization Protocol for Resource-efficient Communications in IoT Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0

- 6 Exploiting Secrecy Performance of Uplink NOMA in Cellular Networks. *IEEE Access*, **2021**, 9, 95135-95154, 3.5 ○
- 5 Numerical Design and Investigation of Circularly Segmented Air Holes-Assisted Hollow-Core Terahertz Waveguide as Optical Chemical Sensor. *IEEE Access*, **2021**, 9, 86155-86165 3.5 ○
- 4 SIR performance evaluation of MB-OFDM UWB system with residual timing offset. *Electronics Letters*, **2015**, 51, 427-429 1.1
- 3 Channel estimation in high data rate UWB system with unknown narrowband interference. *Annales Des Telecommunications/Annals of Telecommunications*, **2013**, 68, 503-514 2
- 2 MSGM: A Markov Model Based Similarity Guide Matrix for Optimising Ordered Problems by Balanced-Evolution Genetic Algorithms. *IEEE Access*, **2020**, 8, 210286-210300 3.5
- 1 SUPnP: Secure Access and Service Registration for UPnP-Enabled Internet of Things. *IEEE Internet of Things Journal*, **2021**, 8, 11561-11580 10.7