Gurjot Singh Gaba

List of Publications by Year
in descending order

67 papers	1,108 citations	471371 17 h-index	414303 32 g-index
71 all docs	71 docs citations	71 times ranked	619 citing authors

#	Article	IF	Citations
1	A Lightweight and Robust Secure Key Establishment Protocol for Internet of Medical Things in COVID-19 Patients Care. IEEE Internet of Things Journal, 2021, 8, 15694-15703.	5.5	123
2	Nature-Inspired-Based Approach for Automated Cyberbullying Classification on Multimedia Social Networking. Mathematical Problems in Engineering, 2021, 2021, 1-12.	0.6	114
3	Design of Multi-Information Fusion Based Intelligent Electrical Fire Detection System for Green Buildings. Sustainability, 2021, 13, 3405.	1.6	109
4	Lightweight and Anonymity-Preserving User Authentication Scheme for IoT-Based Healthcare. IEEE Internet of Things Journal, 2022, 9, 2649-2656.	5.5	98
5	A sequential roadmap to Industry 6.0: Exploring future manufacturing trends. IET Communications, 2022, 16, 521-531.	1.5	46
6	A robust and lightweight secure access scheme for cloud based E-healthcare services. Peer-to-Peer Networking and Applications, 2021, 14, 3043-3057.	2.6	42
7	A New Hybrid Deep Learning Algorithm for Prediction of Wide Traffic Congestion in Smart Cities. Wireless Communications and Mobile Computing, 2021, 2021, 1-13.	0.8	40
8	Secure Device-to-Device communications for 5G enabled Internet of Things applications. Computer Communications, 2021, 169, 114-128.	3.1	37
9	Robust and Lightweight Key Exchange (LKE) Protocol for Industry 4.0. IEEE Access, 2020, 8, 132808-132824.	2.6	35
10	Robust and Lightweight Mutual Authentication Scheme in Distributed Smart Environments. IEEE Access, 2020, 8, 69722-69733.	2.6	32
11	Design and Analysis of High-Speed Free Space Optical (FSO) Communication System for Supporting Fifth Generation (5G) Data Services in Diverse Geographical Locations of India. IEEE Photonics Journal, 2021, 13, 1-12.	1.0	32
12	A Detailed Research on Human Health Monitoring System Based on Internet of Things. Wireless Communications and Mobile Computing, 2021, 2021, 1-9.	0.8	30
13	COVID-19: Role of Robotics, Artificial Intelligence and Machine Learning During the Pandemic. Current Medical Imaging, 2022, 18, 124-134.	0.4	28
14	An Exhaustive Research on the Application of Intrusion Detection Technology in Computer Network Security in Sensor Networks. Journal of Sensors, 2021, 2021, 1-11.	0.6	26
15	3P-SAKE: Privacy-preserving and physically secured authenticated key establishment protocol for wireless industrial networks. Computer Communications, 2021, 175, 82-90.	3.1	24
16	Predicting the Risk of Depression Based on ECG Using RNN. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.1	24
17	MAKE-IT—A Lightweight Mutual Authentication and Key Exchange Protocol for Industrial Internet of Things. Sensors, 2020, 20, 5166.	2.1	21
18	An improved association rule mining algorithm for large data. Journal of Intelligent Systems, 2021, 30, 750-762.	1.2	21

#	ARTICLE	IF	CITATIONS
19	CROWD: Crow Search and Deep Learning based Feature Extractor for Classification of Parkinson's Disease. ACM Transactions on Internet Technology, 2021, 21, 1-18.	3.0	20
20	Chest CT Findings and Differential Diagnosis of Mycoplasma pneumoniae Pneumonia and Mycoplasma pneumoniae Combined with Streptococcal Pneumonia in Children. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.1	17
21	Performance Analysis and Enhancement of Free Space Optical Links for Developing State-of-the-Art Smart City Framework. Photonics, 2020, 7, 132.	0.9	16
22	A Novel Hybrid Precoding-Companding Technique for Peak-to-Average Power Ratio Reduction in 5G and beyond. Sensors, 2021, 21, 1410.	2.1	16
23	Urban Rain Flood Ecosystem Design Planning and Feasibility Study for the Enrichment of Smart Cities. Sustainability, 2021, 13, 5205.	1.6	15
24	Impact of peak to average power ratio reduction techniques on Generalized Frequency Division Multiplexing for 5th generation systems. Computers and Electrical Engineering, 2021, 95, 107386.	3.0	13
25	A Novel Intrusion Detection Approach Using Machine Learning Ensemble for IoT Environments. Applied Sciences (Switzerland), 2021, 11, 10268.	1.3	12
26	Efficient and Robust Image Communication Techniques for 5G Applications in Smart Cities. Energies, 2021, 14, 3986.	1.6	11
27	Fully Integrated High Gain S-Band Triangular Slot Antenna for CubeSat Communications. Electronics (Switzerland), 2021, 10, 156.	1.8	11
28	Performance Analysis of WOFDM-WiMAX Integrating Diverse Wavelets for 5G Applications. Wireless Communications and Mobile Computing, 2021, 2021, 1-14.	0.8	11
29	Multimedia Concepts on Object Detection and Recognition with F1 Car Simulation Using Convolutional Layers. Wireless Communications and Mobile Computing, 2021, 2021, 1-21.	0.8	9
30	High Gain Patch Antenna Array with Parasitic Elements for CubeSat Applications. , 2018, , .		6
31	A Metaheuristic Approach to Secure Multimedia Big Data for IoT-Based Smart City Applications. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	6
32	An empirical study on vulnerability assessment and penetration detection for highly sensitive networks. Journal of Intelligent Systems, 2021, 30, 592-603.	1.2	5
33	Preserving Authenticity and Integrity of Distributed Networks through Novel Message Authentication Code. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 12, 1297.	0.7	5
34	Optimum design of a tri-band MPA with parasitic elements for CubeSat communications using Genetic Algorithm. , 2018, , .		4
35	Impact of Hybrid PAPR Reduction Techniques on FBMC for 5G Applications. International Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-10.	0.4	4
36	Performance analysis of OFDM system augmented with SC diversity combining technique in presence of CFO. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Application of data mining technology in detecting network intrusion and security maintenance. Journal of Intelligent Systems, 2021, 30, 664-676.	1.2	3
38	S-Band CPW-Fed Slot Antenna with 2D Metamaterials for CubeSat Communications. Communications in Computer and Information Science, 2019, , 344-356.	0.4	3
39	Low-Profile Patch Antenna with Parasitic Elements for CubeSat Applications. Communications in Computer and Information Science, 2019, , 116-127.	0.4	3
40	Sensor node deployment using Bacterial Foraging Optimization. , 2011, , .		2
41	BER analysis of GFDM system augmented with SC diversity combining scheme for diverse Pulse Shaping Filters. , 2018, , .		2
42	Gain performance analysis of optical parametric amplifiers employing different modulation techniques. Journal of Optics (India), 2019, 48, 155-159.	0.8	2
43	I-LEACH Protocol for Wireless Sensor Networks. International Journal of Multimedia and Ubiquitous Engineering, 2016, 11, 279-292.	0.3	2
44	An Effective Approach for Minimizing Energy Consumption in WSN. Indian Journal of Science and Technology, 2016, 9, .	0.5	2
45	An Ultra Wideband, Novel and Reliable RF MEMS Switch. Transactions on Electrical and Electronic Materials, 2016, 17, 183-188.	1.0	2
46	Diversified Caesar Cipher for Impeccable Security. International Journal of Security and Its Applications, 2017, 11, 33-40.	0.5	2
47	Analysis and Optimization of a Very Compact MPA with Parasitic Elements for Inter-swarm of CubeSats Communications. Communications in Computer and Information Science, 2019, , 128-143.	0.4	2
48	Analysis of Image Transmission using MIMO-Alamouti Space-Time Encoding. International Journal on Advanced Science, Engineering and Information Technology, 2019, 9, 39-45.	0.2	2
49	Electronic Wheelchair for Physically Disabled Persons. Indian Journal of Science and Technology, 2016, 9, .	0.5	1
50	5G and Beyond. , 2018, , .		1
51	BER assessment of OFDM system augmented with MRC technique under the effect of CFO. , 2019, , .		1
52	Multi-Dielectric & Multi-Band operations on RF MEMS. Transactions on Electrical and Electronic Materials, 2016, 17, 86-91.	1.0	1
53	ENERGY EFFICIENT CLUSTERING MODEL: MODIFIED LEACH-R PROTOCOL. Far East Journal of Electronics and Communications, 2016, 16, 283-296.	0.2	1
54	High Gain Miniaturized MPA with MSS for FemtoSat Communications. Communications in Computer and Information Science, 2019, , 357-369.	0.4	1

#	Article	IF	Citations
55	Design and Analysis of Commercially Viable Free-Space Optical Communication Link for Diverse Beam Divergence Profiles. Frontiers in Physics, 2021, 9, .	1.0	1
56	Gain profile analysis in fiber optical parametric amplifiers using SBS technique. , 2015, , .		0
57	Energy conservation and collision avoidance by controlled access protocol in WSN. , 2015, , .		0
58	Performance Improvement of MIMO-FBMC Systems Using Different Diversity Combining Schemes Through AWGN and Rayleigh Channels. Communications in Computer and Information Science, 2019, , 138-152.	0.4	0
59	Performance Analysis of Receiver Diversity Incorporated WiMAX Systems. Communications in Computer and Information Science, 2019, , 270-281.	0.4	0
60	Efficient Image Transmission using OSTBC4 Space Time Encoded MIMO Systems. , 2020, , .		0
61	Design Aspects of a New Reliable Torsional Switch with Excellent RF Response. Transactions on Electrical and Electronic Materials, 2016, 17, 7-12.	1.0	0
62	A Disparate Low Loss DC to 90 GHz Wideband Series Switch. Transactions on Electrical and Electronic Materials, 2016, 17, 92-97.	1.0	0
63	Coherent Caesar Cipher for Resource Constrained Devices. International Journal of Security and Its Applications, 2016, 10, 327-336.	0.5	0
64	More Reliable Approach for Detecting Data Alterations in Communication Networks. International Journal of Security and Its Applications, 2016, 10, 55-64.	0.5	0
65	A Novel Forgery Detection Mechanism for Sensitive Data. International Journal of Security and Its Applications, 2016, 10, 39-48.	0.5	0
66	HYBRID MODULATION TECHNIQUE FOR SUPPRESSION OF FOUR WAVE MIXING IN DWDM SYSTEM. Far East Journal of Electronics and Communications, 0, , 131-142.	0.2	0
67	Gain analysis of high-speed DWDM link with different optical amplification configurations. International Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-8.	0.4	0