

# Mehedi Hasan

## List of Publications by Year in descending order

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40  
papers

705  
citations

759233  
12  
h-index

794594  
19  
g-index

40  
all docs

40  
docs citations

40  
times ranked

113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Smart parking systems: comprehensive review based on various aspects. Heliyon, 2021, 7, e07050.	3.2	81
2	Design of a Scalable Low-Power 1-Bit Hybrid Full Adder for Fast Computation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1464-1468.	3.0	69
3	Neural networks based multivariate time series forecasting of solar radiation using meteorological data of different cities of Bangladesh. Results in Engineering, 2022, 13, 100365.	5.1	39
4	Microcontroller Based Smart Home System with Enhanced Appliance Switching Capacity. , 2018, , .		35
5	Smart Home Systems: Overview and Comparative Analysis. , 2018, , .		35
6	Gate Diffusion Input technique based full swing and scalable 1-bit hybrid Full Adder for high performance applications. Engineering Science and Technology, an International Journal, 2020, 23, 1364-1373.	3.2	35
7	A high-speed and scalable XOR-XNOR-based hybrid full adder design. Computers and Electrical Engineering, 2021, 93, 107200.	4.8	29
8	Renewable Energy Sector in Bangladesh: The Current Scenario, Challenges and the Role of IoT in Building a Smart Distribution Grid. Energies, 2021, 14, 5083.	3.1	28
9	Comprehensive study of 1-Bit full adder cells: review, performance comparison and scalability analysis. SN Applied Sciences, 2021, 3, 1.	2.9	23
10	Overview and Comparative Performance Analysis of Various Full Adder Cells in 90 nm Technology. , 2018, , .		22
11	A Novel Hybrid Full Adder Based on Gate Diffusion Input Technique, Transmission Gate and Static CMOS Logic. , 2019, , .		20
12	Design of a Two-Bit Magnitude Comparator Based on Pass Transistor, Transmission Gate and Conventional Static CMOS Logic. , 2020, , .		19
13	A high-speed 4-bit Carry Look-Ahead architecture as a building block for wide word-length Carry-Select Adder. Microelectronics Journal, 2021, 109, 104992.	2.0	19
14	An IoT based Environment Monitoring System. , 2020, , .		19
15	A high-performance full swing 1-bit hybrid full adder cell. IET Circuits, Devices and Systems, 2022, 16, 210-217.	1.4	18
16	High Speed and Ultra Low Power Design of Carry-Out Bit of 4-Bit Carry Look-Ahead Adder. , 2019, , .		17
17	Quantization, gate dielectric and channel length effect in double-gate tunnel field-effect transistor. Results in Physics, 2022, 34, 105312.	4.1	15
18	Low Power Design of a Two Bit Magnitude Comparator for High Speed Operation. , 2019, , .		14

#	ARTICLE	IF	CITATIONS
19	Prospective Smart Distribution Substation in Bangladesh: Modeling and Analysis. Sustainability, 2021, 13, 10904.	3.2	13
20	Low-cost Appliance Switching Circuit for Discarding Technical Issues of Microcontroller Controlled Smart Home. International Journal of Sensors and Sensor Networks, 2019, 7, 16.	1.4	13
21	Smart Electrification of Rural Bangladesh Through Smart Grids. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 41-55.	0.7	12
22	A scalable high-speed hybrid 16-bit full adder design using XOR&XNOR module. International Journal of Circuit Theory and Applications, 2021, 49, 3597-3606.	2.0	12
23	Consumer side economic perception of telemedicine during COVID-19 era: A survey on Bangladesh's perspective. Informatics in Medicine Unlocked, 2021, 27, 100797.	3.4	12
24	Bengali Fake News Detection. , 2020, , .		11
25	Voice Activated Portable Braille with Audio Feedback. , 2021, , .		10
26	Smart Transformer Theft Protection and Maintenance Monitoring System. , 2021, , .		9
27	Fault and System Analysis Model of Voltage Source Control Based HVDC Transmission System. , 2021, , .		9
28	Performance Analysis of Machine Learning Techniques for Wind Speed Prediction. , 2021, , .		9
29	Prospect of Mini-Hydel Power Generation in Drainage Systems of Bangladesh. , 2021, , .		8
30	Design of an Area Efficient Quantum Dot Cellular Automata Based Full Adder Cell Having Low Latency. , 2021, , .		8
31	Plasmonic corrugated waveguide coupled to a rectangular nano-resonator as an optical filter. OSA Continuum, 2020, 3, 3314.	1.8	8
32	Performance Improvement of 4-Bit Static CMOS Carry Look-Ahead Adder Using Modified Circuits for Carry Propagate and Generate Terms. Science Journal of Circuits Systems and Signal Processing, 2019, 8, 76.	0.1	8
33	Effect of doping profile variation on nanoscale cylindrical gate carbon nanotube field-effect transistor: a computational study using nonequilibrium Greenâ€™s function formalism. Semiconductor Science and Technology, 2021, 36, 015012.	2.0	7
34	Design and Evaluation of a FIR Filter Using Hybrid Adders and Vedic Multipliers. , 2021, , .		5
35	Feasibility and Cost Analysis of Grid Connected Hybrid Solar Home System: A Case Study of Chattogram District in Bangladesh. , 2022, , .		4
36	Analysis of Lemon Companyâ€™s Cross-Border E-Commerce Logistics Distribution Mode Selection. , 2021, , 601-615.		3

#	ARTICLE	IF	CITATIONS
37	Healthcare Monitoring System for Dedicated COVID-19 Hospitals or Isolation Centers. , 2021, , .		3
38	Identification and Classification of Melanoma Using Deep Learning Algorithm. , 2022, , .		3
39	High-Performance Design of a 4-Bit Carry Look-Ahead Adder in Static CMOS Logic. Indonesian Journal of Electrical Engineering and Informatics, 2020, 8, .	0.3	1
40	Designing of a Plasmonic High Pass Wavelength Filter With Apodized Grating Waveguide. , 2017, , .		0