

List of Publications in Journals (SCI, WOS and Scopus) and International conference (Scopus) A.Y -2020-21

S.No.	Authors	Title of the paper	Journal / Conference / Book series Name	Jornal/Confere nce/Book chapters	Vol. No.	Issue No.	Page No.s	Month & Year	Indexing (SCI or Scopus)	DOI Number (Optional)
1	J. Ajayan	Nanosheet field effect transistors-A next generation device to keep Moore's law alive: An intensive study	Microelectronics Journal	Journal	114	2021	105141	Jun-21	SCI	https://doi.org/10.1016/j.mejo.2021.105141
2	J. Ajayan	Highly scaled graded channel GaN HEMT with peak drain current of 2.48 A/mm	AEU - International Journal of Electronics and Communications	Journal	136	7	153774	26.04.2021	SCIE	https://doi.org/10.1016/j.aeue.2021.153774
3	J. Ajayan	Intensive Study of Field-Plated AlGaN/GaN HEMT on Silicon Substrate for High Power RF Applications	Silicon, Springer	Journal		2021		Jun-21	SCI	https://doi.org/10.1007/s12633-021-01199-w
4	J. Ajayan	Automata Theory-based Energy Efficient Area Algorithm for an Optimal Solution in Wireless Sensor Networks	Wireless Personal Communications, Springer	Journal			44215	24.04.2021	SCI	https://doi.org/10.1007/s11277-021-08507-y
5	J. Ajayan	Lowering the Schottky Barrier Height by Titanium Contact for High-Drain Current in Mono-layer MoS2 Transistor	Journal of electronic materials, Springer	Journal			44203	16.03.2021	SCI	https://doi.org/10.1007/s11664-021-08811-0
6	J. Ajayan	A critical review of design and fabrication challenges in InP HEMTs for future terahertz frequency applications	Materials Science in Semiconductor Processing, Elsevier	Journal	128	6	105753	14.02.2021	SCI	https://doi.org/10.1016/j.mssp.2021.105753
7	J. Ajayan	Investigation of influence of SiN and SiO2 Passivation in Gate Field Plate Double Heterojunction	Silicon, Springer	Journal			44205	21.01.2021	SCI	https://doi.org/10.1007/s12633-020-00899-z
8	S Tayal	A Comprehensive Investigation of Vertically Stacked Silicon Nanosheet Field Effect Transistors: an Analog/RF Perspective	Silicon, Springer	Journal				2021	SCI	https://doi.org/10.1007/s12633-021-01128-x
9	S Tayal	Performance Analysis of Ferroelectric GAA MOSFET with Metal Grain Work Function Variability	Silicon, Springer	Journal	38			2021	SCI	https://doi.org/10.1007/s12633-021-01031-5
10	S Tayal	Optimization of Device Dimensions of High-k Gate Dielectric Based DG-TFET for Improved Analog/RF Performance	Silicon, Springer	Journal				2021	SCI	https://doi.org/10.1007/s12633-021-01127-y
11	Deboraj Muchahary	Numerical simulation study for efficiency enhancement of doubly graded perovskite solar cell	Optical Materials	Journal	118	2021	111285	Jun-21	SCI	https://doi.org/10.1016/j.optmat.2021.111285
12	Deboraj Muchahary	Carrier transport layer free perovskite solar cell for enhancing the efficiency: A simulation study	Optik Optics	Journal	243	2021	167492	Jun-21	SCI	https://doi.org/10.1016/j.ijleo.2021.167492
13	Deboraj Muchahary	A simulation approach to improve photocurrent through a double-layer of the emitter in a-Si1-xCx/c-Si heterojunction solar cell	Superlattices and Microstructures	journal	146	2020	106651	Jul-20	SCI	https://doi.org/10.1016/j.spmi.2020.106651
14	Syed Musthak Ahmed(&), T. Sai Chandu, U. Rohith, G. Naveen, and S. Naveen	IoT Based Garbage Disposer for Educating Rural India	Lecture Notes in Electrical Engineering	Book Chapter	120	2020		Jun-20	Scopus	https://doi.org/10.1007/978-981-15-1420-3_120

15	Syed Musthak Ahmed	Powered Wheelchair for Mobility with Features to Address Physical Strength, Cognitive Response, and Motor Action Development Issues	Lecture Notes in Electrical Engineering	Book Chapter	120	2020		Jun-20	Scopus	https://doi.org/10.1007/978-981-15-1420-3_121
16	Syed Musthak Ahmed	IOT Based Automatic Plantwatering System Through Soil Moisture Sensing—A Technique to Support Farmers' Cultivation in Rural India	Lecture Notes in Electrical Engineering	Book Chapter	643	2020		Jun-20	Scopus	https://doi.org/10.1007/978-981-15-3125-5_28
17	Syed Musthak Ahmed	Analyzing Driving Skills in Adults: A Cognitive Measure Using Eye Tracker	Lecture Notes in Electrical Engineering	Book Chapter	721	2020		Jun-20	Scopus	https://doi.org/10.1007/978-981-15-3125-5_30
18	Syed Musthak Ahmed	Sensory-Motor Deterioration in Older Drivers and Their Amelioration Through Various Training Strategies: A Study	Lecture Notes in Electrical Engineering	Book Chapter	1105	2020		Jun-20	Scopus	https://doi.org/10.1007/978-981-15-3125-5_31
19	P.Anuradha	Effectiveness of device parameters with regard to the electrical characteristics of the MOSFET double gate	Materials Today: Proceedings	Journal			2214-7853	44228	Scopus	https://doi.org/10.1016/j.matpr.2021.01.465
20	P.Anuradha	QCA Based Approximate Multipliers and Adders Method	Materials Today: Proceedings	Journal			2214-7853	44228	Scopus	https://doi.org/10.1016/j.matpr.2021.01.457
21	Rajeshwarrao Arabelli	A Novel Method to Monitor and Alert System for A Letter Box	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032020
22	Rajeshwarrao Arabelli	Automatic Door Lock System by Face Recognition	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032036
23	Rajeshwarrao Arabelli	Effective power generation and utilization of solar photo voltaic system	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032047
24	P Anuradha	Microcontroller Based Bi-directional Vehicle Counter and Automatic Gate Controlling System	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032047
25	P Anuradha	Microcontroller Based Monitoring and Controlling of LPG Leaks Using Internet of Things	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032021
26	Rajeshwarrao Arabelli	Monitoring and load regulation of photovoltaic solar energy conversion system using internet of things	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032048
27	Rajeshwarrao Arabelli	Smart street light management system for conservation of electrical energy	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032041
28	Rajeshwarrao Arabelli	Solar power generation system with IOT based monitoring and controlling using different sensors and protection devices to continuous power supply	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032017
29	Ch.Rajendra Prasad	Temperature aware variable time-slot assignment prioritybased routing algorithm for WBANs in IoT based eHealthcare systems	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032165
30	Ch.Rajendra Prasad	A hybrid energy-efficient routing protocol for wireless body area networks using ultra-low-power transceivers for eHealth care systems	SN Applied Sciences 2(12)	Journal	2	12	2114	44136	Scopus+ WoS	https://doi.org/10.1007/s42452-020-03900-x

31	Ch.Rajendra Prasad	A non-linear mathematical model-based routing protocol for WBAN-based health-care systems	International Journal of Pervasive Computing and Communications	Journal	ahead-of-print	ahead-of-print		13.01.2021	Scopus+ WoS	DOI 10.1108/IJPCC-09-2020-0138
32	Adupa, C., Chandhra	Radiation Hardened Circuits in Multiple Harsh Environments	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to7	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032044
33	Ch.Rajendra Prasad	SVD Based Robust Unsighted Video Watermarking Technique for different attacks	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 10	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032030
34	Ch.Rajendra Prasad	Digital Watermarking: State of the Art and Research Challenges in Health Care & Multimedia Applications	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 7	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032031
35	Ch.Rajendra Prasad	Low-Jitter CMOS Digital PLL for the generation of the clock in synchronous serial communication systems	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 17	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032013
36	Ch.Rajendra Prasad	Area-Delay-Power analysis of Carry Look-AheadAdder Architecture	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 9	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032022
37	Ramchandar Rao, P	Identification of Sulphur Added Copra Using Drying Process	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to10	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032040
38	Ravi, V	Effective Power Consumption Monitoring of Smart meter through IoT	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032015
39	Sanjay Kumar, S	Anti-Poaching of Trees in Forest-Based on IoT	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to7	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032014
40	Y. Srikanth	Area-Power Analysis of Carry Select Adder using Transmission gates	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032045
41	Y. Srikanth	Digital Error Correction Logic for Pipelined ADC Using 1.5Bits/Stage	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032046
42	Ramchandar Rao, P	COVID-19 Patient Health Management System Using IoT	Lecture Notes in Networks and Systems	Book Chapter	201		635-646	15.06.2021	Scopus	https://link.springer.com/chapter/10.1007/978-981-16-0666-3_52
43	Sandip Bhattacharya	A survey on pristine and intercalation doped graphene nanoribbon interconnect for future VLSI circuits	AIMS Materials Science	Journal	8	2	247-260	01.02.2021	Scopus+ WoS	doi: 10.3934/matrsoci.2021016
44	K.Rajkumar	PIXEL BY PIXEL PROCESSING TECHNIQUE TO CHARACTERIZE TISSUE IMAGING	ARNP Journal of Engineering and Applied Sciences	Journal	16	5	563-567	44256	Scopus	
45	K.Rajkumar	The Future of Engineering Education-A Visionary of New Century	Materials Today: Proceedings	Journal			2214-7853	44228	Scopus	https://doi.org/10.1016/j.matpr.2021.01.602
46	P.Anuradha	Noise Removal of ECG Signals with Adaptive Filtering	Materials Today: Proceedings	Journal			2214-7853	44228	Scopus	https://doi.org/10.1016/j.matpr.2021.01.469
47	K.Rajkumar	Problem-Oriented and project based learning as an innovative learning strategy for sustainable development in engineering education	Materials Today: Proceedings	Journal			2214-7853	44228	Scopus	https://doi.org/10.1016/j.matpr.2021.01.796
48	P.Anuradha	Convolution Neural Networks Based Blind Quality Predictor	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032049
49	L. M. I. Leo Joseph	HSL Color Space Based Skin Lesion Segmentation Using Fuzzy-Based Techniques	Lecture Notes in Electrical Engineering	Book Chapter	665	69	903	Dec. 2020	Scopus	https://doi.org/10.1007/978-981-15-5262-5_69
50	L. M. I. Leo Joseph	Image Quality Analysis Based on Texture Feature Extraction Using Second-Order Statistical Approach	Innovations in Electronics and Communication Engineering	Springer, Singapore			495-504	23-04-2020	scopus	https://doi.org/10.1007/978-981-15-3172-9_48

51	L. M. I. Leo Joseph	Comparative Study of Segmentation of Noisy Color Synthetic Image Using FCM and PFCM	Lecture Notes in Electrical Engineering	Book Chapter	665	69	903	Dec. 2020	Scopus	https://doi.org/10.1007/978-981-15-5262-5_34
52	L. M. I. Leo Joseph	A Two-Level Approach to Color Space-Based Image Segmentation Using Genetic Algorithm and Feed-Forward Neural Network	Advances in Intelligent Systems and Computing,	conference	1133		67	2021	Scopus	https://doi.org/10.1007/978-981-15-3514-7_6
53	L. M. I. Leo Joseph	The Impact of Distance Measures in K-Means Clustering Algorithm for Natural Color Images	Advances in Artificial Intelligence and Data Engineering, Advances in Intelligent Systems and Computing	conference	1133		67	2021	Scopus	https://doi.org/10.1007/978-981-15-3514-7_71
54	S Srinivas	Extensive evaluation of the MIMO along with sliced multi modulus algorithm and estimate strategies in the direction of MIMO OFDM solutions	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032038
55	S Srinivas	Spectrum Sensing Techniques in Cognitive Radio Technology: A Review Paper	Journal of Communications	Journal	15	7		Jul-20	scopus	doi:10.12720/jcm.15.7.577-582
56	S Srinivas	Design and Analysis of Channel Estimation of MIMO-OFDM using Whale Swarm Optimization	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032042
57	Shekar Yedunuri	Blind Parameters Estimation Algorithm Based on SC-FDE Cyclic Autocorrelation	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032051
58	S Srinivas	Adaptive Trigonometric Transformation Function with Image Contrast and Color Enhancement: Application to Unmanned Aerial System Imagery	Test Engineering Journal	Journal	11128-11132			Jun-20	scopus	ISSN: 0193-4120
59	V Malathy	Disease monitoring of the crops after segmentation and IoT based sensing of soil water level	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032052
60	Sridevi Chitti	Successful strategies implemented in active learning: ECE Perspective	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032050
61	Shilpa Narlagiri	Design and Implementation of Green Ecological Supervision Using Raspberry Pi	Advances in Intelligent Systems and Computing	conference	1014			Dec-20	scopus	https://doi.org/10.1007/978-981-13-9920-6_24
62	V Malathy	Cancer prediction for type-2 diabetes using machine learning	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032011
63	V Malathy	Radio frequency identification based electronic voting machine using fingerprint module	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032018
64	V Malathy	Eliminating products' fake reviews using network parameters and geo location	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032002
65	J Tarun Kumar	Estimating Tropical cyclone intensity using a deep belief network	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032043
66	Y Srikanth	Realization of Elegant Security System for Women and Children Safety	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032027

67	Y Srikanth	An IOT Based Environmental Monitoring System	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032025
68	V. Sandeep Kumar	parameter optimization for PAPR reduction of OFDM/OQAM signal	International Journal of Electronics and Communications	journal	124	153365		Sep. 2020	SCI	https://doi.org/10.1016/j.aeue.2020.153365
69	V. Sandeep Kumar	Doppler Shift Based Sampling Rate Conversion for GFDM Underwater Acoustic Communication	Advances in Intelligent Systems and Computing, Springer	conference	1245		239-249		scopus	
70	V. Sandeep Kumar	PAPR reduction Scheme for OFDM/OQAM signals using novel phase sequence	Lecture Notes on Data Engineering and Communications Technologies	conference	63		636		scopus	10.1007/978-981-16-0081-4
71	J. Tarun Kumar	Channel estimation for Broadband Wireless Access	Lecture Notes on Data Engineering and Communications Technologies	conference	63		115		scopus	10.1007/978-981-16-0081-4
72	V. Sandeep Kumar	PAPR Reduction Method for MMIO-OFDM/OQAM System Based on SERC Structure	Soft Computing and Signal Processing, Springer	conference	1325		641		scopus	10.1007/978-981-33-6912-2
73	V. Sandeep Kumar	Improved Peak-to-Average Power Ratio Reduction Method for OFDM/OQAM System	Advances in Intelligent Systems and Computing, Springer	conference	1299		915		scopus	10.1007/978-981-33-4299-6
74	J. Tarun Kumar	Blind signal-to-interference-plus-noise ratio estimation of OFDM/OQAM system in radio frequency interference environment	Soft Computing	Journal	4			44337	SCI	doi.org/10.1007/s00500-021-05857-4
75	Sreedhar Kollem	Improved partial differential equation-based total variation approach to non-subsampled contourlet transform for medical image	Multimedia Tools and Applications, Springer	Journal	80	2		22.01.2021	SCI	https://doi.org/10.1007/s11042-020-09745-1
76	Sreedhar Kollem	An optimized SVM based possibilistic fuzzy c-means clustering algorithm for tumor	Multimedia Tools and Applications, Springer	Journal	80	1		10.01.2021	SCI	https://doi.org/10.1007/s11042-020-09675-y
77	Sandeep Kumar V	Cognitive User Mobility Using Cooperative Spectrum Sensing	IOP Conference Series: Materials Science and Engineering	Journal	981	3	1 to 6	Dec. 2020	Scopus	doi:10.1088/1757-899X/981/3/032047
78	Anil Kumar Rajapitamahuni, Laxman Raju Thoutam, Praneeth Ranga, Sriram Krishnamoorthy, Bharat Jalan	Impurity band conduction in Si-doped β -Ga ₂ O ₃ films	Applied Physics Letters, USA	Journal	118	7	72105	15.02.2021	SCIE	https://doi.org/10.1063/5.0031481
79	Syed Musthak Ahmed	An Organized Approach for Analysis of Diabetic Nephropathy Images Using Watershed and Contrast Adaptive	A Walkthrough, Studies in Computatio	Book Chapter	956		53	Aug 2021	Scopus	https://doi.org/10.1007/978-3-030-68291-0_6
80	Syed Musthak Ahmed	A Literature Survey on Identification of Asthma Using Different Classifier and Clustering Techniques	A Walkthrough, Studies in Computatio	Book Chapter	956		53	Aug 2021	Scopus	https://doi.org/10.1007/978-3-030-68291-0_7