



**Research Paper Published in Journals during the AY 2021-2022**

| Sl. No. | Title of paper                                                                                                                         | Name of the author/s                                 | Department | Name of journal                                                                 | Year of publication | ISSN number |
|---------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------|---------------------------------------------------------------------------------|---------------------|-------------|
| 1       | A Smart Solution for Cancer Patient Monitoring Based on Internet of Medical Things Using Machine Learning Approach                     | Madana Mohana R                                      | CSE        | Evidence-based Complementary and Alternative Medicine                           | 2021-2022           | 1741427X    |
| 2       | Erratum: Nanotechnology-Based Sensitive Biosensors for COVID-19 Prediction Using Fuzzy Logic Control                                   | Bachanna, Prashant                                   | ECE        | Journal of Nanomaterials                                                        | 2021-2022           | 18761100    |
| 3       | 5G-Telecommunication Allocation Network Using IoT Enabled Improved Machine Learning Technique                                          | Dutta, Papiya, Alhassan                              | ECE        | Wireless Communications and Mobile Computing                                    | 2021-2022           | 15308669    |
| 4       | Fractographic properties of electrode material of supercapacitor (carbon aerogel) with its application                                 | Mishra, Neeraj Kumar                                 | CSE        | Advances in Materials and Processing Technologies                               | 2021-2022           | 2374068X    |
| 5       | Optimal Designs of Reversible/Quantum Decoder Circuit Using New Quantum Gates                                                          | Misra, Neeraj Kumar                                  | ECE        | International Journal of Theoretical Physics                                    | 2021-2022           | 207748      |
| 6       | Reduction of depolarization field effect on ferroelectric switching process in semiconductor-relaxor ferroelectric composite           | Lagen Kumar Pradhan                                  | PHYSICS    | Journal of Applied Physics                                                      | 2021-2022           | 218979      |
| 7       | Low Power LC-Quadrature VCO with Superior Phase Noise Performance in 0.13 $\mu\text{m}$ RF-CMOS Process for Modern WLAN Application    | Neeraj Kumar Misra                                   | ECE        | Circuits, Systems, and Signal Processing                                        | 2021-2022           | 0278081X    |
| 8       | MULTIDIMENSIONAL OPTIMIZATION FOR JOINT MAP CHANNEL AND PLL PHASE NOISE ESTIMATION IN OFDM                                             | Shrivastav K.                                        | ECE        | Journal of Engineering Science and Technology                                   | 2021-2022           | 18234690    |
| 9       | Revenue targeting for a prosumer with storage under gross and net energy metering policies                                             | Hesaroor, Kashinath                                  | EEE        | Journal of Energy Storage                                                       | 2021-2022           | 2352152X    |
| 10      | Investigation and Design of Microstrip Patch Antenna employed on PCs Substrates in THz regime                                          | Kushwaha, R. K., Karuppanan, P.                      | ECE        | Australian Journal of Electrical and Electronics Engineering, Taylors & Francis | 2021-2022           | 1448-837X   |
| 11      | Development of PANI based ternary nanocomposite with enhanced capacity retention for high performance supercapacitor application       | Akshaya Raghavan, Suprabhat Sarkar, Sutapa Ghosh     | Chemistry  | Electrochimica Acta                                                             | 2021-2022           | 0013-4686   |
| 12      | THE UPPER BOUNDS OF ANNIHILATOR DOMINATION NUMBER OF ARITHMETIC GRAPHS                                                                 | P. APARNA, K. V. SURYANARAYANA RAO, E. KESHAVA REDDY | Maths      | Advances and Applications in Mathematical Science                               | 2021-2022           | 0974-6803   |
| 13      | An autonus piezoelectric energy harvesting system for smart sensor nodes in IOT application                                            | Asthana, p., Khanna, G.                              | ECE        | Applied Physics A: Materials Science and Processing                             | 2021-2022           | 0947-8396   |
| 14      | Optimization of parameters of Adders and Barrel shifter based on Emerging QCA technology                                               | Pathak, N., Mishra, N. K., Bhoi, B. K., Kumar, S.    | ECE        | Radioelectronics and Communication systems                                      | 2021-2022           | 0735-2727   |
| 15      | Effect of structural modification on electromechanical behaviour of piezoelectric material under applied stress: an experimental study | Prateek Asthana & Gargi Khanna                       | ECE        | Ferroelectrics                                                                  | 2021-2022           | 0015-0193   |

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| 16 | A Novel energy- efficient clustering protocol in wireless sensor network: multi-objective analysis based on hybrid meta-heuristic algorithm               | Rani, Y. A., Reddy, E. S.                                                                                                            | CSE       | Journal of Reliable Intelligent Environments                        | 2021-2022 | 2199-4676        |
| 17 | Power Enhancement in Partial Shaded Photovoltaic System Using Spiral Pattern Array Configuration Scheme                                                   | Balachandran, P.K.                                                                                                                   | EEE       | IEEE Access                                                         | 2021-2022 | 2169-3536        |
| 18 | A New Alternate Method to Reuse Rehashed Edible Oil for the Betterment of Society - Dual Benefit Approach in Photovoltaic Modules                         | David, P.W., Ganesan, K., Murugesan, P., Murugesan, P., Jeyakodi, G., Balachandran, P.K., Cherukuri, S.K., Babu, T.S., Alhelou, H.H. | EEE       | IEEE Access                                                         | 2021-2022 | 2169-3536        |
| 19 | Fractographic properties of electrode material of supercapacitor (carbon aerogel) with its application                                                    | Satpathy, S. Chandra Trivedi, M. Goyal, V. Yadav, C.S. Mishra, N.K.                                                                  | ECE       | Advances in Materials and Processing Technologies                   | 2021-2022 | 2374-068X        |
| 20 | Predict Diabetes Mellitus Using MachineLearning Algorithms                                                                                                | Bano, F. Munidhanalakshmi, K. MadanaMohana, R.                                                                                       | CSE       | Journal of Physics:Conference Series                                | 2021-2022 | 1742-6588        |
| 21 | Assessing Wear out of Tyre using Opencv & Convolutional Neural Networks                                                                                   | Reddy, K.K.C. Anisha, P.R. Mohana, M.R.                                                                                              | CSE       | Journal of Physics: Conference Series                               | 2021-2022 | 1742-6588        |
| 22 | Graphene Quantum Dots Decorated TiO Nanostructures: Sustainable Approach for Photocatalytic Remediation of an Industrial Pollutant                        | Sarkar, S. Raghavan, A. Giri, A. Ghosh, S.                                                                                           | Chemistry | Chemistry Select: John Wiley and Sons Inc                           | 2021-2022 | 2365-6549        |
| 23 | A techno-economic feasibility analysis of renewable energy-based marine micro-grid for cruise ship applications: A case study simulation                  | Krishnamoorthy, Murugaperumal, Packirisamy, S. Shaik, M.A. Ramasamy, A. Sagayaraj, M.                                                | EEE       | Marine Technology Society Journal                                   | 2021-2022 |                  |
| 24 | Public Auditing Scheme for Integrity Verification in Distributed Cloud Storage System                                                                     | Mahalakshmi, K. Kousalya, Sanjay Kumar Suman, K. Shekhar, H.Srihari, K. Sundramurthy, V.P.                                           | ECE       | Scientific Programming                                              | 2021-2022 | 1058-9244        |
| 25 | L-Shape Propagated Array Configuration with Dynamic Reconfiguration Algorithm for Enhancing Energy Conversion Rate of Partial Shaded Photovoltaic Systems | Srinivasan, A. Devakirubakaran, S. Sundaram, B.M. Babu, T.S. Alhelou, H.H.                                                           | EEE       | IEEE Access                                                         | 2021-2022 | 2169-3536        |
| 26 | A Real-time Implementation for the Speech Steganography using Short-Time Fourier Transformfor Secured Mobile Communication                                | Dr Rajeev Shrivastava                                                                                                                | ECE       | Turkish Journal of Computer and Mathematics Education               | 2021-2022 | e-ISSN 1309-4653 |
| 27 | An accurate analytical modeling of solar photovoltaic system considering Rs and Rsh under partial shaded condition                                        | Sampath Kumar Vankadara, Shamik Chatterjee & Praveen Kumar Balachandran                                                              | EEE       | Int J Syst Assur Eng Manag                                          | 2021-2022 | 0975-6809        |
| 28 | Content Addressable Memory Design in 3D pNML for Energy-Aware Sustainable Computing                                                                       | Nirupma Pathak, Bandan Kumar Bhoi, Neeraj Kumar Misra, Santosh Kumar                                                                 | ECE       | Journal of Circuits, Systems and Computers                          | 2021-2022 | 0218-1266        |
| 29 | Implementation of a new speed estimation technique for vector controlled switched reluctance machines                                                     | Khan, Y.A., Verma, V.                                                                                                                | EEE       | Measurement: Journal of the International Measurement Confederation | 2021-2022 | 0263-2241        |
| 30 | Multidimensional optimization for joint map channel and pll phase noise estimation in OFDM                                                                | K. SHRIVASTAV, R. THAKUR, M. S. ANSARI, A. PIMPALAPURE, S. K. VISHWAKARMA                                                            | ECE       | Journal of Engineering Science and Technology                       | 2021-2022 | 1823-4690        |
| 31 | Revenue targeting for a presumer with storage under gross and net energy metering policies                                                                | Hesaroor, K., Das, D.                                                                                                                | EEE       | Journal of Energy Storage                                           | 2021-2022 | 2352-152X        |
| 32 | Erratum: Reduction of depolarization field effect on ferroelectric switching process in semiconductor-relaxer ferroelectric composite                     | Lagen Kumar Pradhan, Jyotirekha Mallick, Anant Shukla, Murli Kumar Manglam, Pawan Kumar, Paramjit Kour, and Manoranjan Kar           | Physics   | Journal of Applied Physics                                          | 2021-2022 | 0021-8979        |

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| 33 | Low Power LC-Quadrature VCO with Superior Phase Noise Performance in 0.13 $\mu\text{m}$ RF-CMOS Process for Modern WLAN Application           | Khan, I.U., Balodi, D., Misra, N.K.                                                                                                                                                                                | ECE       | Circuits, Systems, and Signal Processing                     | 2021-2022 | 0278-081X                                     |
| 34 | Reduction of depolarization field effect on ferroelectric switching process in semiconductor-relaxor ferroelectric composite                  | Lagen Kumar Pradhan, Jyotirekha Mallick, Anant Shukla, Murli Kumar Manglam, Pawan Kumar, Paramjit Kour, and Manoranjan Kar                                                                                         | Physics   | Journal of Applied Physics                                   | 2021-2022 | 0021-8979                                     |
| 35 | Optimal Designs of Reversible/Quantum Decoder Circuit Using New Quantum Gates                                                                 | Slimani, A., Benslama, A. & Misra, N.K.                                                                                                                                                                            | ECE       | International Journal of Theoretical Physics                 | 2021-2022 | 1572-9575                                     |
| 36 | A Smart Solution for Cancer Patient Monitoring Based on Internet of Medical Things Using Machine Learning Approach                            | Arram Sriram, Sekhar Reddy, G. L. Anand Babu, Prashant Bachanna, Singh Chhabra Gurpreet, Vishal Moyal, D. C. Shubhangi, Anil Kumar Sahu, Devanand Bhonsle, R. Madana Mohana, K. Srihari, and Fekadu Ashine Chamato | ECE       | Evidence-Based Complementary and Alternative Medicine (eCAM) | 2021-2022 | 1741-427X                                     |
| 37 | Performance analysis of an Injera baking machine by using solar energy                                                                        | Suresh, P., Ali, M.D.I., Rao, P.G., Rudrapati, R.                                                                                                                                                                  | ME        | Materials Today: Proceedings                                 | 2021-2022 | 2214-7853                                     |
| 38 | Erratum: Nanotechnology-Based Sensitive Biosensors for COVID-19 Prediction Using Fuzzy Logic Control                                          | Maheshwari, V., Mahmood, M.R., Sravanthi, S., Bachanna, P., Sundramurthy, V.P.                                                                                                                                     | ECE       | Journal of Nanomaterials                                     | 2021-2022 | 1687-4110                                     |
| 39 | 5G-Telecommunication Allocation Network Using IoT Enabled Improved Machine Learning Technique Open Access                                     | Alzaiddi, M.S., Subbalakshmi, C., Roshini, T.V., Dutta, P., Alhassan, M.                                                                                                                                           | ECE       | Wireless Communications and Mobile Computing                 | 2021-2022 | 1530-8669                                     |
| 40 | Study of dipole polarization in Zn doped barium hexaferrite                                                                                   | Kumar Manglam, M., Kumar Pradhan, L., Mallick, J., Nibedita Rout, S., Kar, M.                                                                                                                                      | Physics   | Materials Today: Proceedings                                 | 2021-2022 | 2214-7853                                     |
| 41 | Investigation on wear behavior of aluminium matrix micro and nanocomposites                                                                   | Kumar, S., Kumar, A., Poddar, A., Asthana, P.                                                                                                                                                                      | ECE       | Materials Today: Proceedings                                 | 2021-2022 | <a href="#">2214-7853</a>                     |
| 42 | Analyzing histopathological images by using machine learning techniques                                                                       | Naik, D.A., Mahana, R.M., Ramu, G., SureshKumar, M., Raghavender, K.V.                                                                                                                                             | CSE       | Applied Nanoscience (Switzerland)                            | 2021-2022 | 2190-5517                                     |
| 43 | Predict Diabetes Mellitus Using Machine Learning Algorithms                                                                                   | Bano, F., Munidhanalakshmi, K., Madana Mohana, R.                                                                                                                                                                  | CSE       | Journal of Physics: Conference Series                        | 2021-2022 | 17426588                                      |
| 44 | Assessing Wear out of Tyre using Opencv & Convolutional Neural Networks                                                                       | Reddy, K.K.C., Anisha, P.R., Mohana, M.R.                                                                                                                                                                          | CSE       | Journal of Physics: Conference Series                        | 2021-2022 | 17426588                                      |
| 45 | A Real-time Implementation for the Speech Steganography using Short-Time Fourier Transform for Secured Mobile Communication                   | Shrivastava, R., Singh, M., Thakur, R., Teja, K.S.S.                                                                                                                                                               | ECE       | Journal of Physics: Conference Series                        | 2021-2022 | 17426588                                      |
| 46 | Graphene Quantum Dots Decorated $\text{TiO}_2$ Nanostructures: Sustainable Approach for Photocatalytic Remediation of an Industrial Pollutant | Sarkar, S., Raghavan, A., Giri, A., Ghosh, S.                                                                                                                                                                      | Chemistry | Chemistry Select John Wiley and Sons Inc                     | 2021-2022 | 23656549                                      |
| 47 | Proximity-coupled high gain graphene patch antenna using holey dielectric superstrate for terahertz applications                              | Kushwaha, R.K., Karuppanan, P.                                                                                                                                                                                     | ECE       | Optik                                                        | 2021-2022 | 304026                                        |
| 48 | Electrocardiogram estimation using Lagrange interpolation                                                                                     | Dr. Anil Kumar Sahu                                                                                                                                                                                                | ECE       | Electronics Letters.                                         | 2021-2022 | Online ISSN 1350-911X<br>Print ISSN 0013-5194 |
| 49 | Designing digital circuits using 3D nanomagnetic logic architectures                                                                          | Dr. Neeraj Mishra                                                                                                                                                                                                  | ECE       | Journal of computational electronics, springer               | 2021-2022 | 1572-8137                                     |
| 50 | An autonomous piezoelectric energy harvesting system for smart sensor nodes in IOT application                                                | Asthana, p., Khanna, G.                                                                                                                                                                                            |           | Applied Physics A: Materials Science and Processing          | 2021-2022 | 0947-8396                                     |
| 51 | Optimization of parameters of Adders and Barrel shifter based on Emerging QCA technology                                                      | Pathak, N., Mishra, N. K., Bhoi, B. K., Kumar, S.                                                                                                                                                                  | ECE       | Radioelectronics and Communication systems                   | 2021-2022 | 0735-2727                                     |

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| 52 | Effect of structural modification on electromechanical behaviour of piezoelectric material under applied stress: an experimental study                    | Asthana, p., Khanna, G.                                                                     | ECE | Ferroelectrics                                            | 2021-2022 | 0015-0193 |
| 53 | A Novel energy- efficient clustering protocol in wireless sensor network: multi-objective analysis based on hybrid meta-heuristic algorithm               | Rani, Y. A., Reddy, E. S.                                                                   | ECE | Journal of Reliable Intelligent Environments              | 2021-2022 | 2199-4676 |
| 54 | Power Enhancement in Partial Shaded Photovoltaic System Using Spiral Pattern Array Configuration Scheme                                                   | Cherukuri, S.K. Balachandran, P.K. Kaniganti, K.R. Babu, T.S. Alhelou, H.H.                 | EEE | IEEE Access                                               | 2021-2022 | 2169-3536 |
| 55 | A New Alternate Method to Reuse Rehashed Edible Oil for the Betterment of Society - Dual Benefit Approach in Photovoltaic Modules                         | David, P.W. Ganesan, K. Murugesan, P. Babu, T.S. Alhelou, H.H.                              | EEE | IEEE Access                                               | 2021-2022 | 2169-3536 |
| 56 | Fractographic properties of electrode material of supercapacitor (carbon aerogel) with its application                                                    | Satpathy, S. Chandra Trivedi, M. Goyal, V. Yadav, C.S. Mishra, N.K.                         | CSE | Advances in Materials and Processing Technologies         | 2021-2022 | 2374-068X |
| 57 | Predict Diabetes Mellitus Using MachineLearning Algorithms                                                                                                | Bano, F.Munidhanalakshmi, K. MadanaMohana, R.                                               | CSE | Journal of Physics:Conference Series                      | 2021-2022 | 1742-6596 |
| 58 | Assessing Wear out of Tyre using Opencv &Convolutional Neural Networks                                                                                    | Reddy, K.K.C.Anisha, P.R. Mohana, M.R.                                                      | CSE | Journal of Physics:Conference Series                      | 2021-2022 | 1742-6596 |
| 59 | Graphene Quantum Dots Decorated TiO Nanostructures: Sustainable Approach for Photocatalytic Remediation of an Industrial Pollutant                        | Sarkar, S. Raghavan, A. Giri, A. Ghosh, S.                                                  | CSE | ChemistrySelect                                           | 2021-2022 | 2365-6549 |
| 60 | A techno-economic feasibility analysis of renewable energy-based marine micro-grid for cruise ship applications: A case study simulation                  | Krishnamoorthy, Murugaperumal, Packirisamy, S. Shaik, M.A. Ramasamy, A. Sagayaraj, M.       | EEE | Marine Technology Society Journal                         | 2021-2022 | -         |
| 61 | Designing digital circuits using 3D nanomagnetic logic architectures                                                                                      | Bhoi, B.K. Pathak, N. Kumar, S. Misra, N.K.                                                 | ECE | Journal of Computational Electronics                      | 2021-2022 | 1572-8137 |
| 62 | Public Auditing Scheme for Integrity Verification in Distributed Cloud Storage System                                                                     | Mahalakshmi, K. Kousalya, Sanjay Kumar Suman, K. Shekhar, H. Srihari, K. Sundramurthy, V.P. | ECE | Scientific Programming                                    | 2021-2022 | 1058-9244 |
| 63 | Nanotechnology-Based Sensitive Biosensors for COVID-19 Prediction Using Fuzzy Logic Control                                                               | Maheshwari, V. Mahmood, M.R. Sravanthi, S. Bachanna, P. Sundramurthy, V.P.                  | ECE | Journal of Nanomaterials                                  | 2021-2022 | 1687-4110 |
| 64 | A novel energy-efficient clustering protocol in wireless sensor network: multi-objective analysis based on hybrid meta-heuristic algorithm                | Rani, Y.A. Reddy, E.S.                                                                      | CSE | Journal of Reliable Intelligent Environments              | 2021-2022 | 2199-4676 |
| 65 | A Study and Early Identification of Leaf Diseases in Plants Using Convolutional Neural Network                                                            | Madana Mohana, R. Kishor Kumar Reddy, C. Anisha, P.R.                                       | CSE | Smart Innovation, Systems and Technologies (Book Chapter) | 2021-2022 | 2190-3026 |
| 66 | L-Shape Propagated Array Configuration with Dynamic Reconfiguration Algorithm for Enhancing Energy Conversion Rate of Partial Shaded Photovoltaic Systems | Srinivasan, A. Devakirubakaran, S. Sundaram, B.M. Babu, T.S. Alhelou, H.H.                  | EEE | IEEE Access                                               | 2021-2022 | 2169-3536 |