

## IQAC - Research and Development

# **Research Newsletter**



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The vision of BIT in terms of research & development is to be a centre of excellence, providing world-class education that transforms individuals into intellectual, empathetic and responsible citizens. We are committed to providing top of the line infrastructure that is most conducive for learning. We engage committed faculty who will infuse subject knowledge with latest teaching pedagogies. We provide state-of-the-art facilities to faculty members and students to access and engage in diligent research. We intend to collaborate the best minds in the industries with the academia of the college thereby empowering the students to meet the global standards. Our main motive is to create an enterprising environment for a continual progress and change that respects heterogeneity. The objective of R&D cell is to have a focus on addressing social, industrial and environment challenges through extensive core and multidisciplinary research activities.



## **Specific Objectives**

The specific objectives include

- Develop core group of faculty members with high research potential
- Effective utilization of existing facilities and to establish new facilities
- Integrate research and education
- Enable faculty members and students to translate the knowledge and research into new products to improve the lifestyle of the people

Ensure timely disclosure of all potential Inventions / Innovations and results of research activities by faculty members/students through patents or proper mode of publications with relevant property rights

## **Recent Initiatives**

The recent initiatives include establishment of central research facility comprising 13 units at Research Park. We have also established advanced computing facility for carrying out computational analysis. These facilities support a lot of researchers in carrying out significant research activities.

## **Recent Achievements**

Some of our achievements include 293 Scopus indexed journal publications, 309 SCI / Web of Science indexed journal publications, Rs.37,27,562/- sanctioned funding from 20 government and non-government agencies (IEI R&D, AICTE ISTE, DBT, Rufford Small Grant- UK SERB, Community Radio Association, TNSCST & AICTE ATAL), and 37 Ph.D. awardees during the academic year 2021-2022.

## **Current Progress**

As of now, 823 research articles are under review in Scopus indexed journals, 605 research articles are under review in SCI / Web of Science indexed journals and 81 project proposals worth Rs.14,95,53,119/- are under consideration with various funding agencies. There are 179 doctoral degree holders with 78 guiding full-time & part-time research scholars.

## **CRF** @ Research Park

### **List of facilities**

- Biomolecular Characterization and Instrumentation Facility
- Instrument Calibration Facility
- Fabric Surface Enhancement Facility
- Functional Macro Molecular Enhancement Facility
- Engine and Fuels Testing Facility
- Materials Processing and Testing Facility
- Electrical Power Analysis Research Facility
- Aircraft Materials Testing Facility
- Liquid Crystals Research Facility
- Quantum Computing and Phytochemistry Research Facility
- Condensed Matter Research Facility
- Advanced Materials Research Facility
- Subsonic Airflow Testing Facility

## **ACF @ Research Park**

## **List of softwares**

- MATLAB
- VLSI Design using Cadence Tools Suite
- LabVIEW
- Oracle 11g
- Ansys 18.0
- CREO
- CATIA V5
- NX CAM Express
- Solidworks 16
- Altair HyperMesh
- IPG CarMaker
- Autoware

## **Faculty Publications**

Authors	Article Title	Journal Name
Harikumar, B., Kokilavani, S., Sudheer Khan, S.	Magnetically separable N/S doped Fe3O4 embedded on MoO3 nanorods for photodegradation of cefixime, Cr(VI) reduction, and its genotoxicity study	Chemical Engineering Journal
Okla, M.K., Balasurya, S., Alaraidh, I.A., Mohebaldin, A., Al-ghamdi, A.A., Al-okla, M.A., Abdel-Maksoud, M.A., Abdelaziz, R.F., Soufan, W., Balakrishnaraja, R., Raju, L.L., Thomas, A.M., Sudheer Khan, S.	Plasma-assisted in-situ preparation of L-cystine functionalized silver nanoparticle: An intelligent multicolor nano-sensing of cadmium and paracetamol from environmental sample	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy
Swedha, M., Okla, M.K., Alamri, S.S., Alaraidh, I.A., Alghamdi, A.A., Mohebaldin, A., Abdel-Maksoud, M.A., Aufy, M., Studenik, C.R., Thomas, A.M., Raju, L.L., Khan, S.S.	Green synthesis of two-electron centre based ZnO/NiCo2S4 QDs-OVs using Punica granatum fruit peel extract for an exceptional visible light photocatalytic degradation of doxycycline and ciprofloxacin	Chemosphere

Authors	Article Title	Journal Name
Aravind, M.K., Kappen, J., Narayanamoorthi, E., Sanjaykumar, A., Varalakshmi, P., Arockiadoss, T., John, S.A., Ashokkumar, B.	Bioengineered magnetic graphene oxide microcomposites for bioremediation of chromium in ex situ - A novel strategy for aggrandized recovery by electromagnetic gadgetry	Environmental Pollution
Subhiksha, V., Alatar, A.A., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Aufy, M., Abdel-Maksoud, M.A., Raju, L.L., Thomas, A.M., Khan, S.S.	Double Z-Scheme ZnCo2O4/MnO2/FeS2 photocatalyst with enhanced photodegradation of organic compound: Insights into mechanisms, kinetics, pathway and toxicity studies	Chemosphere
Harikumar, B., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Soufan, W., Abdel-Maksoud, M.A., Aufy, M., Thomas, A.M., Raju, L.L., Khan, S.S.	Robust visible light active CoNiO2â€"BiFeO3â€"NiS ternary nanocomposite for photo-fenton degradation of rhodamine B and methyl orange: Kinetics, degradation pathway and toxicity assessment	Journal of Environmental Management
Harini, G., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Al-ghamdi, A.A., Abdel-Maksoud, M.A., Abdelaziz, R.F., Raju, L.L., Thomas, A.M., Khan, S.S.	Sunlit expeditious visible light-mediated photo- fenton degradation of ciprofloxacin by exfoliation of NiCo2O4 and ZnO·3Fe2·7O4 over g-C3N4 matrix: A brief insight on degradation mechanism, degraded product toxicity, and genotoxic evaluation in Allium cepa	Chemosphere
Subhiksha, V., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Soufan, W., Abdel-Maksoud, M.A., Abdelaziz, R.F., Thomas, A.M., Raju, L.L., Khan, S.S.	A prominent dual heterojunction framed CuWO4/Bi2WO6/MnS ternary NCs for parachlorophenol degradation, Cr(VI) reduction & Company & Compa	Chemosphere
Sathish Kumar, T.R., Jegadheeswaran, S.	Experimental Investigation on Finned Solar Still with Enhanced Thermal Energy Storage	Journal of Thermal Science and Engineering Applications
Swedha, M., Alatar, A.A., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Aufy, M., Raju, L.L., Thomas, A.M., Abdel- Maksoud, M.A., Sudheer Khan, S.	Graphitic carbon nitride embedded Ni3(VO4)2/ZnCr2O4 Z-scheme photocatalyst for efficient degradation of p-chlorophenol and 5-fluorouracil, and genotoxic evaluation in Allium cepa	Journal of Industrial and Engineering Chemistry
Harikumar, B., Sudheer Khan, S.	Hierarchical construction of ZrO2/CaCr2O4/BiOIO3 ternary photocatalyst: Photodegradation of antibiotics, degradation pathway, toxicity assessment, and genotoxicity studies	Chemical Engineering Journal
Tharmaraj, V., Anbu Anjugam Vandarkuzhali, S., Karthikeyan, G., Pachamuthu, M.P.	Efficient and recyclable AuNPs/aminoclay nanocomposite catalyst for the reduction of organic dyes	Surfaces and Interfaces
Naveena, S., Bharathi, A.	A new design of diabetes detection and glucose level prediction using moth flame-based crow search deep learning	Biomedical Signal Processing and Control
Velayudham, M., Ramdass, A., Sathish, V., Rajagopal, S.	Structural behavior of rhenium complexes in fluoride sensing: a spectroscopic and computational study	Structural Chemistry

Authors	Article Title	Journal Name
Dhayaneethi, S., Anburaj, J., Arivazhagan, S.	Multi-objective optimization of alloying elements to enhance the wear resistance and impact strength of HCCI produced by furan sand mold	Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering
Kokilavani, S., Alaraidh, I.A., Okla, M.K., Chandran, P., Mohebaldin, A., Soufan, W., Alghamdi, A.A., Abdel-Maksoud, M.A., AbdElgawad, H., Thomas, A.M., Raju, L.L., Sudheer Khan, S.	Efficient photocatalytic degradation of methyl orange and malachite green by Ag3PO4 decorated BiOBr nanoflower under visible light: Performance evaluation, mechanism insights and toxicology of the by-products	Journal of Alloys and Compounds
Krithika, S.M.U., Mani, K., Thangavelu, S.K., Bharathi, C.M., Saravanan, K., Prakash, C.	Investigation of the Physical Properties and Acoustic Performance of Composites Developed From Natural Fibres	AATCC Journal of Research
Dhanapal, V., Subhapriya, P., Sennappan, M., Govindaraju, K.M.	Controlled release characteristics of methylenebisacrylamide crosslinked superabsorbent polymer for water and fertilizer conservation in agriculture sector	Journal of Polymer Research
Usha, K.S., Sivakumar, R., Sanjeeviraja, C.	Preparation of pure NiO thin film by radio frequency magnetron sputtering technique and investigation on its properties	Journal of Materials Science: Materials in Electronics
Geetha, V.T., Ramalingam, G., Pachamuthu, M.P., Gopinath, S., Ragupathi, C., Sukantha, T.A.	Structure, Morphological, Magnetic, and Antibacterial Studies of Undoped and Ce/Mg-Doped NiO Nanoparticle Semiconductors Synthesized by Microwave Method	Journal of Superconductivity and Novel Magnetism
Karthiga, M., Santhi, V., Sountharrajan, S.	Hybrid optimized convolutional neural network for efficient classification of ECG signals in healthcare monitoring	Biomedical Signal Processing and Control
Arjunraj, P., Jeyakumar, P.D., Dineshkumar, C., Bharathiraja, M.	Correction: Effects of novel intake manifold design and investigation of diesel engine operating on different alternative fuels (Journal of Thermal Analysis and Calorimetry, (2022), 147, 13, (7471-7484), 10.1007/s10973-021-10817-z)	Journal of Thermal Analysis and Calorimetry
Balamurugan, V.T., Haritha, J., ArunChendhuran, R., Srivel, S., AmalaJerrin, J.N., Kishore, S., Pachamuthu, M.P.	Classification of Groundnut Oil Using Advanced ATR-MIR Spectroscopy and Chemometrics	Food Analytical Methods
Arjunraj, P., Jeyakumar, P.D., Dineshkumar, C., Bharathiraja, M.	Effects of novel intake manifold design and investigation of diesel engine operating on different alternative fuels	Journal of Thermal Analysis and Calorimetry
Ponnudurai, V., Senthil Kumar, P., Sankar Muthuvelu, K., Velmurugan, S., Subhani, S., Arumugam, L., Rajarathinam, R.	Investigation on future perspectives of ex-situ biogenic methane generation from solid waste coal and coal washery rejects	Fuel
Elangovan, A., Ramachandran, J., Lakshmanan, D.K., Ravichandran, G., Thilagar, S.	Ethnomedical, phytochemical and pharmacological insights on an Indian medicinal plant: The balloon vine (Cardiospermum halicacabum Linn.)	Journal of Ethnopharmacology
Sivaranjani, P.R., Janani, B., Thomas, A.M., Raju, L.L., Khan, S.S.	Recent development in MoS2-based nano- photocatalyst for the degradation of pharmaceutically active compounds	Journal of Cleaner Production

Authors	Article Title	Journal Name
Prabhakar, S.K., Rajaguru, H., Kim, C., Won, DO.	A Fusion-Based Technique With Hybrid Swarm Algorithm and Deep Learning for Biosignal Classification	Frontiers in Human Neuroscience
Akshhayya, C., Okla, M.K., Al-Qahtani, W.H., Raaja Rajeshwari, M., Mohebaldin, A., Alwasel, Y.A., Soufan, W., Abdel-Maksoud, M.A., Abdelgawad, H., Raju, L.L., Thomas, A.M., Sudheer Khan, S.	Novel ZnFe2O4decorated on ZnO nanorod: Synergistic photocatalytic degradation of tetracycline, kinetics, degradation pathway and antifungal activity	Journal of Environmental Chemical Engineering
Balasurya, S., Okla, M.K., Alaraidh, I.A., Soufan, W., AL- ghamdi, A.A., Ahamad, S.R., Abdel-Maksoud, M.A., AbdElgawad, H., Raju, L.L., Thomas, A.M., Khan, S.S.	Photodegradation of 5-flurouracil, carvedilol, para-chlorophenol and methimazole with 3D MnWO4 nanoflower modified Ag2WO4 nanorods: A non-genotoxic nanomaterial for water treatment	Chemosphere
Janani, B., Okla, M.K., Al-Amri, S.S., Mohebaldin, A., Alwasel, Y.A., AbdElgawad, H., Abdel- Maksoud, M.A., Thomas, A.M., Raju, L.L., Khan, S.S.	Designing novel MgFe2O4 coupled V2O5 nanorod for synergetic photodegradation of tetracycline with enhanced visible-light energy harvesting: Photoluminescence, kinetics, intrinsic mechanism and bactericidal effect	Chemosphere
Natarajan, K.S., Ramalingasekar, D., Palanisamy, S., Ashokan, M.	Effect on mechanical properties of lightweight sustainable concrete with the use of waste coconut shell as replacement for coarse aggregate	Environmental Science and Pollution Research
Paul, S., Thilagar, S., Nambirajan, G., Elangovan, A., Lakshmanan, D.K., Ravichandran, G., Arunachalam, A., Murugesan, S.	Rauwolfia serpentina: A Potential Plant to Treat Insomnia Disorder	Sleep and Vigilance
Mohanraj, A., Senthilkumar, V.	Effect of Metakaolin on the Durability Property of Superabsorbent Polymer Blended Self- Compacting Concrete	Iranian Journal of Science and Technology - Transactions of Civil Engineering
Manojkumar, P., Dheepanchakkravarthy, A., Senthil Kumar, P., Tamilsevi, S., Srinivasan, C.	Effect of physiological and morphological response of Musa acuminata under stress condition with different salinity levels using IoT	International Journal of Environmental Science and Technology
Okla, M.K., Harini, G., Dawoud, T.M., Akshhayya, C., Mohebaldin, A., AL-ghamdi, A.A., Soufan, W., Abdel-Maksoud, M.A., AbdElgawad, H., Raju, L.L., Thomas, A.M., Sudheer Khan, S.	Fabrication of MnFe2O4 spheres modified CeO2 nano-flakes for sustainable photodegradation of MB dye and antimicrobial activity: A brief computational investigation on reactive sites and degradation pathway	Colloids and Surfaces A: Physicochemical and Engineering Aspects
Aljafari, B., Arulmani, S., Takshi, A., Anandan, S.	Sonochemical decoration of palladium on graphene carpet for electrochemical methanol oxidation	Journal of Electroanalytical Chemistry

Authors	Article Title	Journal Name
Shankar, M.G., Babu, C.G., Rajaguru, H.	Classification of cardiac diseases from ECG signals through bio inspired classifiers with Adam and R-Adam approaches for hyperparameters updation	Measurement: Journal of the International Measurement Confederation
Kanna, P.R., Santhi, P.	Hybrid Intrusion Detection using MapReduce based Black Widow Optimized Convolutional Long Short-Term Memory Neural Networks	Expert Systems with Applications
Okla, M.K., Kokilavani, S., Mohebaldin, A., Thomas, A.M., Soufan, W., Abdel-Maksoud, M.A., AbdElgawad, H., Raju, L.L., Khan, S.S.	Ag decorated CoO NPs supported on chitosan matrix for colorimetric detection of L-cysteine, antibacterial application and photocatalytic reduction of hexavalent chromium ions	Colloids and Surfaces A: Physicochemical and Engineering Aspects
Das, S., Sneha, R.G., Hukkeri, S.M.	Value addition of silk cut cocoons	Man-Made Textiles in India
Prabhakar, S.K., Rajaguru, H., Ryu, S., Jeong, I.C., Won, DO.	A Holistic Strategy for Classification of Sleep Stages with EEG	Sensors
Poojitha, P., Gurumoorthi, P., Athmaselvi, K.A.	Optimization Studies on Ohmic-Assisted Extraction of Bioactive Compounds from Garlic	Asian Journal of Chemistry
Harikumar, B., Okla, M.K., Alaraidh, I.A., Mohebaldin, A., Soufan, W., AL-ghamdi, A.A., Abdel-Maksoud, M.A., AbdElgawad, H., Thomas, A.M., Raju, L.L., Das, A., Khan, S.S.	Nano Ag0 decorated-silica matrix for the remediation of environmental pollutants: Visible-light driven Cr(VI) photoreduction, photodegradation of organic dye, nanomolar Hg2+ detection, and antimicrobial applications	Journal of the Taiwan Institute of Chemical Engineers
Rohini, P., Madhu Mohan, M.L.N., Pongali Sathya Prabu, N.	Detection of phase transitions in liquid crystals through optical, thermal and electrical techniques	Optik
Swedha, M., Balasurya, S., Syed, A., Das, A., Sudheer Khan, S.	Continuous photocatalysis via Z-scheme based nanocatalyst system for environmental remediation of pharmaceutically active compound: Modification, reaction site, defect engineering and challenges on the nanocatalyst	Journal of Molecular Liquids
Chithra, A., Sekar, R., Senthil Kumar, P., Padmalaya, G.	A review on removal strategies of microorganisms from water environment using nanomaterials and their behavioural characteristics	Chemosphere
Krishnaveni, K., Gurusamy, S., Rajakumar, K., Sathish, V., Thanasekaran, P., Mathavan, A.	Aggregation induced emission (AIE), selective fluoride ion sensing and lysozyme interaction properties of Julolidinesulphonyl derived Schiff base	Journal of Photochemistry and Photobiology A: Chemistry
Kokilavani, S., Syed, A., Elgorban, A.M., Bahkali, A.H., AL-Shwaiman, H.A., Varma, R.S., Das, A., Khan, S.S.	Designing Z-scheme AgIO4 nanorod embedded with Bi2S3 nanoflakes for expeditious visible light photodegradation of congo red and rhodamine B	Chemosphere
Thiyagu, T.T., Gokilakrishnan, G., Uvaraja, V.C., Maridurai, T., Prakash, V.R.A.	Effect of SiO2/TiO2 and ZnO Nanoparticle on Cardanol Oil Compatibilized PLA/PBAT Biocomposite Packaging Film	Silicon
Srinitya, G., Sharmila, D., Logeswari, S., Daniel Madan Raja, S.	Certain investigations on image segmentation algorithms on synthetic aperture radar images and classification using convolution neural network	Concurrency and Computation: Practice and Experience
Karthiga, M., Santhi, V.	A wireless sensor network for remote detection of arrhythmias using convolutional neural network	Wireless Networks

Authors	Article Title	Journal Name
Ananth, A.D., Palanisamy, C.	Extended and optimized deep convolutional neural network-based lung tumor identification in big data	International Journal of Imaging Systems and Technology
Raja Sekar, K., Jegadheeswaran, S., Kannan, R., Manigandan, P.	Perforated Wall in Controlling the Separation Bubble Due to Shock Wave -Boundary Layer Interaction	International Journal of Turbo and Jet Engines
Harini, G., Balasurya, S., Khan, S.S.	Recent advances on gadolinium-based nano- photocatalysts for environmental remediation and clean energy production: Properties, fabrication, defect engineering and toxicity	Journal of Cleaner Production
Balasurya, S., Okla, M.K., Mohebaldin, A., AL-ghamdi, A.A., Abdel-Maksoud, M.A., Almunqedhi, B., AbdElgawad, H., Thomas, A.M., Raju, L.L., Khan, S.S.	Self-assembling of 3D layered flower architecture of BiOI modified MgCr2O4 nanosphere for wider spectrum visible-light photocatalytic degradation of rhodamine B and malachite green: Mechanism, pathway, reactive sites and toxicity prediction	Journal of Environmental Management
Vivek, S., Srinivasan, K., Sharmila, B., Dharshan, Y., Panchal, H., Suresh, M., Ashokkumar, R., Sadasivuni, K.K., Elkelawy, M., Shrimali, N.	An Improved Quality Inspection of Engine Bearings Using Machine Vision Systems	Smart and Sustainable Manufacturing Systems
Al-Qahtani, W.H., Balasurya, S., Okla, M.K., Abdel-maksoud, M.A., AbdElgawad, H., Al- ghamdi, A.A., Thomas, A.M., Raju, L.L., Sudheer Khan, S.	Synthesis and application of CdS nanoparticles- decorated coreâ€"shell Ag@Ni nanohybrids for visible-light spectrophotometric assay of sulfide in aqueous sample	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy
Charulatha, S., Dharrunya, H.V., Dhanamurugan, R., Devadharshini, R., Paul, D., Sinduja, M.E., Bindhu, J.	Evaluation of Antioxidant and Antimicrobial Potential of Green Synthesized Ag Nanoparticles from Ethanolic Leaf Extract of Thespesia populnea	Journal of Natural Remedies
Subramanian, K., Somachandran, R.S.	Synthesis of Castor Oil based Pristine and Silver Nanoparticle Embedded Polyurethanes and their Characterization by Thermal and Antibacterial Activity Analysis for Biomedical Applications	Asian Journal of Chemistry
Balasamy, K., Krishnaraj, N., Vijayalakshmi, K.	Improving the security of medical image through neuro-fuzzy based ROI selection for reliable transmission	Multimedia Tools and Applications
Janani, B., Al-amri, S.S., Okla, M.K., Mohebaldin, A., Soufan, W., Almunqedhi, B., Abdel- Maksoud, M.A., AbdElgawad, H., Thomas, A.M., Raju, L.L., Khan, S.S.	High performing p-n system of CaFe2O4 coupled ZnO for synergetic degradation of Rhodamine B with white-light photocatalysis and bactericidal action	Journal of the Taiwan Institute of Chemical Engineers
Deepa, R., Devi, M.P., Vignesh, N.A., Kanithan, S.	Implementation and Performance Evaluation of Ferroelectric Negative Capacitance FET	Silicon
Akshhayya, C., Okla, M.K., Mohebaldin, A., AL-ghamdi, A.A., Thomas, A.M., Raju, L.L., AbdElgawad, H., Abdel- Maksoud, M.A., Khan, S.S.	Synthesis of novel p-n heterojunction by the decoration of CuFe2O4 on ZnO nanorod: Characterization, enhanced visible light driven photocatalytic activity and intrinsic mechanism	Surfaces and Interfaces
Natarajan, N., Vasudevan, M., Dineshkumar, S.K., Nandhini, S.S., Balaganesh, P.	Effects of air pollution on monumental buildings in India: An overview	Environmental Science and Pollution Research

Authors	Article Title	Journal Name
Sujatha, G., Mohankumar, N., Poornachandran, R., Kumar, R.S., Mishra, G.S., Mahesh, V., Arunkumar, M.	Correction to: Noise Characterization of InAs Based Composite Channel DG -MOSHEMT with Different Gate Dielectrics (Silicon, (2022), 14, 5, (1925-1933), 10.1007/s12633-021-00954-3)	Silicon
Sujatha, G., Mohankumar, N., Poornachandran, R., Kumar, R.S., Mishra, G.S., Mahesh, V., Arunkumar, M.	Noise Characterization of InAs Based Composite Channel DG -MOSHEMT with Different Gate Dielectrics	Silicon
Davamani, V., Poornima, R., Arulmani, S., Parameswari, E., John, J.E., Deepasri, M.	Mitigation of nitrous oxide emission through fertigation and â€~N' inhibitors – A sustainable climatic crop cultivation in tomato	Science of the Total Environment
Janani, B., Okla, M.K., Abdel- Maksoud, M.A., AbdElgawad, H., Thomas, A.M., Raju, L.L., Al- Qahtani, W.H., Khan, S.S.	CuO loaded ZnS nanoflower entrapped on PVA- chitosan matrix for boosted visible light photocatalysis for tetracycline degradation and anti-bacterial application	Journal of Environmental Management
Janani, B., Syed, A., Raju, L.L., Bahkali, A.H., Al-Rashed, S., Elgorban, A.M., Ahmed, B., Thomas, A.M., Khan, S.S.	Designing intimate porous Al2O3 decorated 2D CdO nano-heterojunction as enhanced white light driven photocatalyst and antibacterial agent	Journal of Alloys and Compounds
Das, S., Sneha, R.G., Hukkeri, S.M.	Handcrafting of silk cut cocoons	Asian Textile Journal
Das, S., Natarajan, S.	Antibacterial activity of chitosan in textiles – A review	Man-Made Textiles in India
Packiam, K.K., Imdhiyas, M., Sabarivasan, K., Madhankumar, D.	Studies on Antioxidants, Antibacterial activities and Phytochemistry of Mimusops elengi. Linn	Research Journal of Biotechnology
Paul, S., Vidusha, K., Thilagar, S., Lakshmanan, D.K., Ravichandran, G., Arunachalam, A.	Advancement in the contemporary clinical diagnosis and treatment strategies of insomnia disorder	Sleep Medicine
Hariprasad, V., Megalingam, A.	Mechanical and tribological behavior of friction stir processed AZ61/egg shell powder/WS2Hybrid surface composite	Surface Topography: Metrology and Properties
Jayamurugan, P., Deivanayaki, S., Ashokan, S., Krishnan, V.G., Rao, N.V.S.S.S., Chandrasekaran, J., Massoud, E.E.S.	Impact of MnO2 on the optical electrical and antibacterial characteristics of Graphite/Polyaniline Ternary composites	Journal of Materials Science: Materials in Electronics
AL-Shwaiman, H.A., Akshhayya, C., Syed, A., Bahkali, A.H., Elgorban, A.M., Das, A., Varma, R.S., Khan, S.S.	Fabrication of intimately coupled CeO2/ZnFe2O4 nano-heterojunction for visible-light photocatalysis and bactericidal application	Materials Chemistry and Physics
Subhiksha, V., Kokilavani, S., Sudheer Khan, S.	Recent advances in degradation of organic pollutant in aqueous solutions using bismuth based photocatalysts: A review	Chemosphere
Ravichandran, G., Lakshmanan, D.K., Arunachalam, A., Thilagar, S.	Food obesogens as emerging metabolic disruptors; A toxicological insight	Journal of Steroid Biochemistry and Molecular Biology
Gurusamy, S., Sankarganesh, M., Sathish, V., Thanasekaran, P., Mathavan, A.	A novel colorimetric, selective fluorescent "turn-off†chemosensor and biomolecules binding studies based on iodosalicylimine schiffbase derivative	Journal of Photochemistry and Photobiology A: Chemistry
Kulanthaivel, P., Selvakumar, S., Soundara, B., Kayalvizhi, V.S., Bhuvaneshwari, S.	Combined effect of nano-silica and randomly distributed fibers on the strength behavior of clay soil	Nanotechnology for Environmental Engineering

Authors	Article Title	Journal Name
Raaja Rajeshwari, M., Kokilavani, S., Sudheer Khan, S.	Recent developments in architecturing the g- C3N4 based nanostructured photocatalysts: Synthesis, modifications and applications in water treatment	Chemosphere
Palanivel, V., Govindasamy, K., Arunachalam, G.K.	Optimization and prediction of pulsating heat pipe compound parabolic solar collector performances by hybrid deep belief network based bald eagle search optimizer	Environmental Progress and Sustainable Energy
Kishor, M.H., Madhu Mohan, M.L.N.	Calorimetric study of smectic x* and validation of dynamic memory in ferroelectric binary complexes	Journal of Thermal Analysis and Calorimetry
Subramanian, M., Sathanandam, S., Solomon, J.M., Sathyamurthy, R., Dhanraj, J.A., Kalisadan, B., Thakur, A.K., Said, Z.	Numerical and Experimental Investigation on Enhancing Thermal Conductivity of Paraffin Wax with Expanded Graphene in Battery Thermal Management System	International Journal of Environmental Research
Kannappan, P., Falcão, B.P., Asokan, K., Leitão, J.P., Dhanasekaran, R.	Insights into recombination channels in a CVT grown ZnSe single crystal	Applied Physics A: Materials Science and Processing
Balasurya, S., Okla, M.K., Abdel-maksoud, M.A., Ahamad, S.R., Almasoud, F., AbdElgawad, H., Thomas, A.M., Raju, L.L., Sudheer Khan, S.	Fabrication of Ag-ZnCo2O4 framework on chitosan matrix for discriminative dual mode detection of S2- ions and cysteine, and cytotoxicological evaluation	Journal of Molecular Liquids
Akshhayya, C., K. Okla, M., M. Thomas, A., A. AL-ghamdi, A., A. Abdel-Maksoud, M., Almunqedhi, B., AbdElgawad, H., Raju, L.L., Khan, S.S.	Insights into photocatalytic mechanism for the rational design of p-n heterojunction by decorating mesoporous SnS2 over ZnFe2O4 nanocomposite for accelerated visible light photocatalysis	Materials Chemistry and Physics
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Manivannan, S., Saravanakumar, N., Vijeyakumar, K.N.	Three-phase to K-phase power conversion using voltage fed quasi Z source direct matrix converter with maximum constant boost control technique	Electrical Engineering
Suganyadevi, S., Renukadevi, K., Balasamy, K., Jeevitha, P.	Diabetic Retinopathy Detection Using Deep Learning Methods	2022 1st International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2022
Naveen, R., Bairavi, S., Vijayanand, P.S., Swetha, N., Mathivannan, K., Surya Muneeshwaran, M.	Mechanical Characterization of Glass Fiber Metal Laminate	Lecture Notes in Mechanical Engineering

Authors	Article Title	Journal Name
Palanisamy, A.M., Nataraj, R.V.	A Novel Methodology to Ensure Data Integrity in Enterprise Information Systems Using Blockchain Technology	2022 1st International Conference on Electrical, Electronics, Information and Communication Technologies, ICEEICT 2022
Nithya, R., Priya, V., Sathiya Kumar, C., Dheeba, J., Chandraprabha, K.	A Smart Parking System: An IoT Based Computer Vision Approach for Free Parking Spot Detection Using Faster R-CNN with YOLOv3 Method	Wireless Personal Communications
Haldorai, A., Ramu, A.	The Impact of Big Data Analytics and Challenges to Cyber Security	Research Anthology on Big Data Analytics, Architectures, and Applications
Sangavi, N., Kiruthika, V.R., Premalatha, K.	Impact of Classification Algorithms on Cervical Cancer Dataset	International Conference on Sustainable Computing and Data Communication Systems, ICSCDS 2022 - Proceedings
Adaickalam, V., Manikandan, S.P., Kanagavalli, N., Dinesh, P.S.	A Vibrant Multiple Object Detection Using Machine Learning Techniques	1st IEEE International Conference on Smart Technologies and Systems for Next Generation Computing, ICSTSN 2022
Rohini, D., Sasikumar, C., Samiyappan, P., Dakshinamurthy, B., Koppula, N.	Design & Des	Materials Today: Proceedings
Velmurugan, S., Sivakumar, K., Ramabalan, S.	Impact of mixed tolerance combination on the geometric position and torques of a four-bar kinematic chain using genetic algorithm	Materials Today: Proceedings
Rajalashmi, K., Vignesh, S., Kaviyadevi, R.S.	Experimental analysis of super boost converter for solar motorized electric vehicle system	Materials Today: Proceedings
Subramaniyan, M., Karuppan, S., P, P., Anand A, P., Vasanthan A, P.	Survey on compression property of sandwich 3D printed PLA components	Materials Today: Proceedings
Pitchandi, N.	Influence of viscoelastic property of compliance material in achieving successful robotic Peg-In-Hole	Materials Today: Proceedings
Reji, A.K., Kumaresan, G., Kaushik, N., Navin Karthi, V.S., Naveen, M.K.	Thermal analysis of grooved heat pipe with eco- friendly refrigerant for low heat loads in comparison to an ordinary thermosyphon	Materials Today: Proceedings
Babu, M., Bhuvanesh, N., Raj, S.S., Elavarasan, E.	Design and optimization of linear Fresnel reflector concentrating solar system using particle swarm optimization algorithms	Materials Today: Proceedings
Arun Kumar, R., Vijay Franklin, J., Koppula, N.	A Comprehensive Survey on Metaheuristic Algorithm for Feature Selection Techniques	Materials Today: Proceedings

Authors	Article Title	Journal Name
Gunasekaran, K., Boopathi, S., Sureshkumar, M.	ANALYSIS OF A CRYOGENICALLY COOLED NEAR- DRY WEDM PROCESS USING DIFFERENT DIELECTRICS [ANALIZA KRIOGENSKO OHLAJENEGA SKORAJ POPOLNO SUHEGA PROCESA EROZIJE Z UPORABO RAZLIÄŒNIH DIELEKTRIKOV]	Materiali in Tehnologije
Moses, M.L., Ramkumarraja, M.	An integrated AHP-ELECTRE and deep reinforcement learning methods for handover performance optimization in an LTE-A networks	Transactions on Emerging Telecommunications Technologies
Rajan, D.P., Kannan, K.S., Divya, P., Velliangiri, S.	Comparative Analysis of Liver diseases by using Machine Learning Techniques	2022 International Conference on Emerging Smart Computing and Informatics, ESCI 2022
Rohini, D., AmarKarthik, A., Abinaya, R., Mathan, A., Midhun, S., Dhushyanth, D.	Buckling analysis of a commercial aircraft wing box and its structural components using Nastran patran	Materials Today: Proceedings
Vadivel, Subramaniyan, C., Muthukumar, K., Bharani, T.	Ergonomics hazards and risk assessment for the saw mill operations	Materials Today: Proceedings
S, K., M R, S., P, M.K., Beemaraj, R.K., C, S.	Computer vision-based surface roughness measurement using artificial neural network	Materials Today: Proceedings
Mahendiran, B., Azeez, N.A., Muthusamy, S., Krishnakumar, G.S.	Polymer-based bionanomaterials for targeted drug delivery	Fundamentals of Bionanomaterials
Mathan Kumar, P., Sivakumar, K., Vinu Kumar, S.M.	EXPERIMENTAL INVESTIGATION OF ELECTRICAL DISCHARGE MACHINING OF INCONEL 718 USING A TIB2-CU SINTERED COMPOSITE ELECTRODE [EKSPERIMENTALNE RAZISKAVE EROZIJSKE OBDELAVE SUPERZLITINE INCONEL 718 Z UPORABO SINTRANE KOMPOZITNE ELEKTRODE TIB2-CU]	Materiali in Tehnologije
Aswath, S., Bharanidharan, N., Valarmathi, R.S., Rajaguru, H.	Modified Spotted Hyena Optimizer Based Leukemia Microscopic Images Classification	IFMBE Proceedings
Sannasi Chakravarthy, S.R., Bharanidharan, N., Rajaguru, H.	Fusion of Deep Features for Classification of Breast Cancer Using Multi-Deep CNNs	IFMBE Proceedings
Jamunadevi, C., Ragupathy, P., Sritha, P., Pandikumar, S., Deepa, S.	Performance Analysis of Random Forest Classifier in Extracting Features from the EEG signal	2022 International Conference on Advanced Computing Technologies and Applications, ICACTA 2022
Priyanka, S., Meenakshi Dhanalakshmi, M., Shanthi, S.	A Review on Drowsiness Prediction System using Deep Learning Approaches	Proceedings - 6th International Conference on Computing Methodologies and Communication, ICCMC 2022

Authors	Article Title	Journal Name
Shettahalli Mantaiah, V.K.	Water Absorption Behavior and Its Effect on Static Mechanical and Dynamic Mechanical Properties of Flax Fabric Reinforced Epoxy Composites	Journal of Natural Fibers
Divakar, R., Sowmya, P., Suganya, G., Primya, T.	Prescriptive and Predictive Analysis of Intelligible Big Data	Proceedings - 6th International Conference on Computing Methodologies and Communication, ICCMC 2022
Navinkumar, T.M., Amala Praveen, A.A., Sasirekha, P., Gokila, P.V., Kalaivani, C., Prabhu, V.	Design of DC-DC Converter based Self Balancing Segway Transporter for Indoor Applications	Proceedings - 6th International Conference on Computing Methodologies and Communication, ICCMC 2022
Vivek, V.V., Boopathi, C., Natarajan, N., Pradeesh, E.L., Pravin, M.C.	Exploration of mechanical properties of jute fiber and copper wire reinforced hybrid polymer composites	Materials Today: Proceedings
Rajesh, S., Gobikrishnan, U., Krishnarjuna Rao, N., Balamurugan, R., Senthilkumar, K.M., Selvan, T.A., Madhankumar, S.	Electrochemical machining of aluminium 7075 alloy, silicon carbide, and fly ash composites: An experimental investigation of the effects of variables on material removal rate	Materials Today: Proceedings
Murugan, K., Nithya, R., Prasanth, K., Fowjiya, S., Mageswari, R.U., Mohamed Ali, E.A.	Analysis of Full Adder cells in Numerous Logic Styles	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022
Benazir Begam, R., Yogalakshmi, V., Saranya, G., Gururaj, D., Jagtap, S., Ravanan, V.	Ovarian Cyst Detection Using Neural Networks	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022
Raghul, K.S., Boopathiraja, K.P., Sudarvannan, V., Sowndharya, S., Karthi, N., Dhiyaneswaran, J.	Design of Control Mechanisms for Electrical Groups based on IoT Technology, for Monitoring Operating Parameters	Proceedings of the International Conference on Electronics and Renewable Systems, ICEARS 2022
Arunachalam, S.K., Rekha, R.	A novel approach for cardiovascular disease prediction using machine learning algorithms	Concurrency and Computation: Practice and Experience

Authors	Article Title	Journal Name
Abinaya, M., Sugirdan, V., Sharmila, A., Soundar, S., Vignesh, R.M.	Crop Based Adaptive System for Greenhouse Environment Using Wireless Sensor Networks	Proceedings - IEEE International Conference on Advances in Computing, Communication and Applied Informatics, ACCAI 2022
Devi, M.P., Ravanan, V., Kanithan, S., Vignesh, N.A.	Performance Evaluation of FinFET Device Under Nanometer Regime for Ultra-low Power Applications	Silicon
Kathiresan, V., Karthik, S., Divya, P., Rajan, D.P.	A Comparative Study of Diverse Intrusion Detection Methods using Machine Learning Techniques	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Divya, P., Rajan, D.P., Suguna, R., Velliangiri, S.	Machine Learning Techniques for Prediction and Analysis of Benign and Malignant in Breast Cancer	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Selvakumar, M., Vijayakumar, T., Janani, R., Varatharajan, N., Kalaivani, P.	Hybridization of a Novel Rheumatoid Arthritisprediction Modelusing Classifier and Optimizer Approach	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Dhivyaa, C.R., Nithya, K., Janani, T., Kumar, K.S., Prashanth, N.	Transliteration based Generative Pre-trained Transformer 2 Model for Tamil Text Summarization	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Sampoornam, K.P., Elango, S., Vinithkrishna, S.V., Ragul, P., Santhoshkumar, R., Sudharsan, S., Athithya, G.	All in one Integrated Farming IOT With Irrigation to Storage	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Poornima, A., Nataraj, N., Nithya, R., Nirmala, D., Divya, P.	Sentiment Analysis of Tweets in Twitter Using CNN	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Krishnammal, N., Kalaiarasan, C., Bharathi, A.	Machine Learning Algorithmic Approach for Handling Link Asymmetry in Wireless Mesh Access Network of Mobile Ad Hoc Network	2022 International Conference on Computer Communication and Informatics, ICCCI 2022

Authors	Article Title	Journal Name
Burugari, V.K., Selvaraj, P., Kanmani, P., Kaliappan, C.P.	An Automated cloud based Water Utilization Management System	2022 International Conference on Computer Communication and Informatics, ICCCI 2022
Aravinth, K., Ramakrishnan, T., Tamilarasan, V.D., Veeramanikandan, K.	A brief review on plant fibres composites: Extraction, chemical treatment and fibre orientation	Materials Today: Proceedings
Noel Jeygar Robert, V., Ragupathy, P., Chandraprabha, K., Nandhini, A.S., Gnanasekaran, M.	Multi-Parameter Smart Health Monitoring System using Internet of Things	Proceedings of the 2nd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2022
Moses, M.L., Perarasi M, T., Rajkumar, Chandar, G.	Joint Energy and QoS-Aware Cross-layer Uplink resource allocation for M2M data aggregation over LTE-A Networks	Proceedings of the 2nd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2022
Gomathi, R., Nirmaladevi, J.	A Fixed probability Cuckoo Search algorithm to optimize SPARQL queries	Proceedings of the 2nd International Conference on Artificial Intelligence and Smart Energy, ICAIS 2022
Saravanakumar, P., Sundararajan, T.V.P., Dhanaraj, R.K., Nisar, K., Memon, F.H., Ibrahim, A.A.B.A.	Lamport Certificateless Signcryption Deep Neural Networks for Data Aggregation Security in WSN	Intelligent Automation and Soft Computing
Ramdass, A., Sathish, V., Thanasekaran, P.	AIE or AIE(P)E-active transition metal complexes for highly sensitive detection of nitroaromatic explosives	Results in Chemistry
Baranidharan, V., Hariprasath, N., Tamilselvi, K., Vignesh, S., Chandru, P., Srinigha, A., Yashwanthi, V.	Modified Gaussian Mixture Distribution-Based Deep Learning Technique for Beamspace Channel Estimation in mmWave Massive MIMO Systems	Lecture Notes in Electrical Engineering
Mathan Kumar, P., Paramasivam, V., Beemaraj, R.K., Mathalai Sundaram, C., Arun Prasath, K.	Investigate the characterization and synthesis process of Titanium dioxide nanoparticles	Materials Today: Proceedings
Ravikumar, M., Beemaraj, R.K., Arunraja, K.M., Pandiarajan, P., Sundaresan, R.	Heat transfer analysis in fin and tube exchanger using CFD	Materials Today: Proceedings
Uvaraja, V.C., Sureshkumar, K., Radha Krishnan, B., Saravanan, G., Ramakrishnan, H.	Characterization of untreated and alkali treated Areca catechu fibre through eco-friendly composite plates	Materials Today: Proceedings
Krishnamoorthy, S., Allabasha, N., Mani, M.K., Sarkar, A.K.	Michler's Ketone: β-Cyclodextrin Host–Guest Inclusion Complex for Enhancing the Ultraviolet Protection Factor of Poplin Cotton Fabric	Photochemistry and Photobiology
Deepika, J., Rajan, C., Senthil, T.	Improved CAPSNET model with modified loss function for medical image classification	Signal, Image and Video Processing

Authors	Article Title	Journal Name
Pandiaraj, A., Venkatesan, R., Manochitra, S., Lakshmanaprakash, S.	Neural Network Based Approach on Sentimental Analysis Using Herb	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022
Soundarya, B., Parkavi, K., Sharmila, A., Kokiladevi, R., Dharani, M., Krishnaraj, R.	CNN Based Smart Bin for Waste Management	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022
Sharmila, A., Dhivya Priya, E.L., Anand, K.R.G., Sujin, J.S., Soundarya, B., Krishnaraj, R.	Fruit Recognition Approach by Incorporating MultilayerConvolution Neural Network	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022
Nagamani, T., Beniga, W.H., Dhanish, K.S., Sherine Benitta, A.	ANTI-THEFT MONITORING FOR A SMART HOME	Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022
Baranidharan, V., Subburajulu, D., Niveditha, S., Arun Prasad, V.S., Sutar, M., Manoj Kumar, S., Ramya, R.	Modified Geometric Mean Decomposition and Orthogonal Matching Pursuit Based Hybrid Precoding for Millimeter-Wave Massive MIMO Systems	Lecture Notes on Data Engineering and Communications Technologies
Prabhu, A., Sudha, V., Pachamuthu, M.P., Sundaravel, B., Bellucci, S.	Ultrasonic Synthesis of Al-SBA-15 Nanoporous Catalyst for t- Butylation of Ethylbenzene	Journal of Nanomaterials
Deepa, R., Anand, R., Pandey, D., Pandey, B.K., Karki, B.	Comprehensive Performance Analysis of Classifiers in Diagnosis of Epilepsy	Mathematical Problems in Engineering
Malathi, L., Bharathi, A., Jayanthi, A.N., Narmatha, C.N.	FPGA Implementation of Adaptive NMLS Algorithm: Timbre Based Filtering from Multiple Harmonics using FIR Filters	Proceedings of 2022 2nd International Conference on Computing and Information Technology, ICCIT 2022
Veerapandi, L., Nivetha, T., Sinthiya, R., Amirthadharshini, N.K., Bumaasri, K., Aishwarya, R.	Insilico and Pharmacological Property Analysis of Bioactive Components from Prunus avium against Diabetics	Journal of Natural Remedies
Thirumurugan, V., Shreelaleitha, G., Ashok Kumar, A., Alagusadasivam, M., Karthikeyan, R., Kavin, M.	A review on silk with soy fibre yarn	Asian Textile Journal

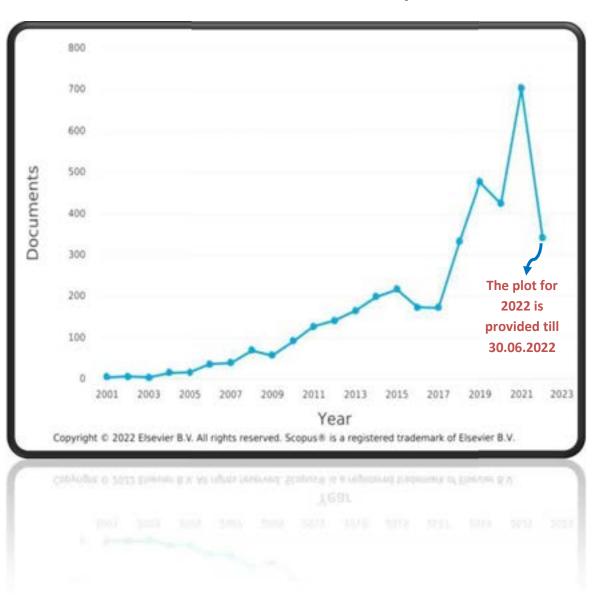
Authors	Article Title	Journal Name
Barik, K., Konar, K., Banerjee, A., Das, S., Abirami, A.	An Exploration of Attack Patterns and Protection Approaches Using Penetration Testing	Lecture Notes on Data Engineering and Communications Technologies
Jeya Prakash, R., Soundara, B., Johnson, C.	No Fine Concrete Pavementâ€"A Sustainable Solution for Flood Disaster Mitigation	Lecture Notes in Civil Engineering
Baranidharan, V., Raju, C., Naveen Kumar, S., Keerthivasan, S.N., Isaac Samson, S.	High Spectrum and Efficiency Improved Structured Compressive Sensing-Based Channel Estimation Scheme for Massive MIMO Systems	Lecture Notes on Data Engineering and Communications Technologies
Veerapandi, L., Nivetha, T., Karunyah Amirthadharshini, N., Sinthiya, R.	Evaluation and Comparative Study of Anti- diabetic Activity of Anthocyanins Derived from Various Natural Sources	Journal of Natural Remedies
Perarasi, T., Nagarajan, G., Gayathri, R., Leeban Moses, M.	Evaluation of cooperative spectrum sensing with filtered bank multi carrier utilized for detecting in cognitive radio network	Transactions on Emerging Telecommunications Technologies
VijeyaKumar, K.N., Lakshmanan, M., Sakthisudhan, K., Saravanakumar, N., Mythili, R., KamatchiKannan, V.	Design and Implementation of High-Speed Energy-Efficient Carry Select Adder for Image Processing Applications	Lecture Notes on Data Engineering and Communications Technologies
Nagareddy, S., Govindasamy, K.	Combustion Chamber Geometry and Fuel Supply System Variations on Fuel Economy and Exhaust Emissions of GDI Engine With EGR	Thermal Science
Sujatha, G., Mohankumar, N., Poornachandran, R., Saravanakumar, R., Pandian, M.K.	Influence of Barrier with Gate Sinking on the Performance of InAs Composite Channel DMDG-HEMT Devices for High-Frequency Applications	Silicon
Balaganesh, P., Vasudevan, M., Natarajan, N.	Levaluating sewage sludge contribution during co- composting using cause-evidence-impact analysis based on morphological characterization  Environment Science Pollution	
Sureshkumar, S., Krishnan, S.S., Rubesh Anand, P.M., Prajapati, A., Chaudhari, L.	Orthogonally crossed triangular monopole antenna for octave band frequencies	International Journal of Electronics Letters
Sundaram, S., Vijayakumar, V.N., Balasubramanian, V., Balamuralikrishnan, S.	Experimental and computational (DFT) methods: exploration of thermochromisim in homophthalic acid and 4-N-alkyloxybenzoic acid comprised and Liquid Cryst hydrogen bond liquid crystals	
Poomani, K., Sathiyavathi, S., Gowrishankar, M.	Performance Evaluation of ILC Controller for Anesthesia Process	IETE Journal of Research
Seethappan, K., Premalatha, K.	A comparative analysis of euphemistic sentences in news using feature weight scheme and intelligent techniques  A comparative analysis of euphemistic sentences and Fuzzy S	
Angappamudaliar Palanisamy, S.K., Selvaraj, D., Ramasamy, S.		
Barik, K., Abirami, A., Konar, K., Das, S.	ar, Research Perspective on Digital Forensic Tools and Investigation Process  Lecture Data and Communication Process	

Authors	Article Title	Journal Name
Sannasi Chakravarthy, S.R., Bharanidharan, N., Rajaguru, H.	Multi-Deep CNN based Experimentations for Early Diagnosis of Breast Cancer	IETE Journal of Research
Sundaramahalingam, A., Jegadheeswaran, S.	Heat Transfer Enhancement of Latent Heat Storage Using Novel Quadruple Helical Fins	Heat Transfer Engineering
Babu, N., Megalingam, A.  Microstructural, mechanical and tribological characterization of ZrB2 reinforced AZ31B surface coatings made by friction stir processing		Journal of Adhesion Science and Technology
Rajaguru, H., Sannasi Chakravarthy, S.R.	Performance Comparison of Machine Learning Algorithms in Identifying Dry and Wet Spells of Indian Monsoon	Lecture Notes in Networks and Systems
Vasudevan, M., Natarajan, N.	Towards achieving sustainable bioplastics production and nutrient recovery from wastewaterâ€"a comprehensive overview on polyhydroxybutyrate	Biomass Conversion and Biorefinery
Sakthiya Ram, S., Kumar, C., Ramesh Kumar, A., Rajesh, T.	Hybrid optimization techniques based automatic artificial respiration system for corona patient	Automatika
Sannasi Chakravarthy, S.R., Rajaguru, H.	Ensemble-Based Weighted Voting Approach for the Early Diagnosis of Diabetes Mellitus	Lecture Notes on Data Engineering and Communications Technologies
Barik, K., Konar, K., Banerjee, A., Das, S., Abirami, A.	Analysis and Forecasting of Cybercrime Incident in India	Lecture Notes in Networks and Systems
Sangeethaa, S.N., Jothimani, S.	Detection of exudates from clinical fundus images using machine learning algorithms in diabetic maculopathy	International Journal of Diabetes in Developing Countries
Haritha, J., Valarmathi, R.S., Kalamani, M.	Soil Urea Analysis Using Mid-Infrared Spectroscopy and Machine Learning	Intelligent Automation and Soft Computing
Venkatachalam, M.N., Balu, S.	A review on the application of industrial waste as reinforced earth fills in mechanically stabilized earth retaining walls	Environmental Science and Pollution Research
Jothimani, P., Chenniappan, P., Chidambaranathan, V.	Factors impinge on the development of a smart city: a field study	Environmental Science and Pollution Research
Karthikamani, R., Rajaguru, H.	Detection of Liver Cirrhosis in Ultrasonic Images from GLCM Features and Classifiers	IFMBE Proceedings
Bharanidharan, N., Rajaguru, H.	Modified Adam to Update Control Parameters of Crow Search Algorithm in Transformation Technique Based Dementia MRI Image Classification	IFMBE Proceedings
Chakravarthy, S.R.S., Rajaguru, H.	Voting Based CAD Model for Breast Cancer Classification	IFMBE Proceedings
Rajaguru, H., Prabhakar, S.K.	Margin Pruning Adaboost Classification with Nature Inspired Optimization for Alcoholic EEG Classification	IFMBE Proceedings
Dhivya, P., Karthikeyan, A., Ajayan, J., Vigneshwaran, S.	A Survey on Analytics Technique Used for Business Intelligence	EAI/Springer Innovations in Communication and Computing

Authors	Article Title	Journal Name
Nithyanantham, S., Singaravel, G.	Hybrid Deep Learning Framework for Privacy Preservation in Geo-Distributed Data Centre	Intelligent Automation and Soft Computing
Senthil, T., Rajan, C., Deepika, J.	An Efficient Handwritten Digit Recognition Based on Convolutional Neural Networks with Orthogonal Learning Strategies	International Journal of Pattern Recognition and Artificial Intelligence
Karthick, R., Velraj, G., Pachamuthu, M.P., Karthikeyan, S.	Synthesis, spectroscopic, DFT, and molecular docking studies on 1,4-dihydropyridine derivative compounds: a combined experimental and theoretical study	Journal of Molecular Modeling
Tharanyaa, J.P.S., Sharmila, D., Kumar, R.S.	A novel workload-aware and optimized write cycles in NVRAM	Computers, Materials and Continua
Sharmila, A., Dhivya Priya, E.L., Gokul Anand, K.R.	A Survey of Societal Applications of IOT	EAI/Springer Innovations in Communication and Computing
Parimala, M., Smarandache, F., Al Tahan, M., Ozel, C.	On complex neutrosophic lie algebras	Palestine Journal of Mathematics
Balaganesh, P., Vasudevan, M., Rameswari, R., Natarajan, N.	Recent Trends in IOT-Enabled Composter for Organic Wastes	Lecture Notes in Civil Engineering
Kumar, K.S., Paramasivam, K.	Novel power-aware optimization methodology and efficient task scheduling algorithm	Computer Systems Science and Engineering
Malathi, D., Ponnusamy, V., Saravanan, S., Deepa, D., Ahanger, T.A.	A design framework for smart ration shop using blockchain and iot technologies	Intelligent Automation and Soft Computing
Prakash, T., Jayakumar, N., Kumar, V.M., Karthick, P., Mutharasu, A., Kumar, A.N.	Design and Analysis of 3D Printable Prosthetic Foot	Lecture Notes in Mechanical Engineering
David, D.S., Anam, M., Kaliappan, C., Selvi, S.A.M., Sharma, D.K., Dadheech, P., Sengan, S.	Cloud security service for identifying unauthorized user behaviour	Computers, Materials and Continua
Vishnupriya, B., Tharsanee, R.M., Soundariya, R.S., Nivaashini, M., Pavithra, G.	A Meta - Heuristic Approach for Intrusion Detection System Using Cascaded Classifiers	Lecture Notes in Networks and Systems
Ponnudurai, V., Rajarathinam, R., Muthuvelu, K.S., Velmurugan, S., Nalajala, R.K., Arumugam, L.	Investigation on the utilization of coal washery rejects by different microbial sources for biogenic methane production	Chemosphere
Dhanapriya, G., Venkatesh, B., Gobinath, R., Prakash, C., Varadharaj, R., Mekala, N.	Antihemorrhagic and antimicrobial property of cotton fabric treated with medicinal herb alfalfa	Journal of Testing and Evaluation
Manivannan, S., Saravanakumar, N., Vijeyakumar, K.N.	Three-phase power conversion using quasi Z source direct matrix converter (QZSDMC) for fixed frequency to variable frequency using direct duty ratio based pulse width modulation technique	International Journal of Electronics
Ashok, C., Palanimuthu, D., Selvadurai, S.D.V., Ammasai, R.V., Senthilkumar, P.P., Sekar, R.	An apodictic review on recent approaches in enzyme technology	Biointerface Research in Applied Chemistry

Authors	Article Title	Journal Name
Saravanan, K., Ramesh, K., Hema, V.S.V., Viganesh, S.	An Exploratory Study of Disaster Risk Management Mobile Applications in Pandemic Periods	Studies in Computational Intelligence
Subasri, R., Meenakumari, R., Panchal, H., Suresh, M., Priya, V., Ashokkumar, R., Sadasivuni, K.K.	Comparison of BPN, RBFN and wavelet neural network in induction motor modelling for speed estimation	International Journal of Ambient Energy
Das, S., Wahi, A., Kumar, S.M., Mishra, R.S., Sundaramurthy, S.	Moment-Based Features of Knitted Cotton Fabric Defect Classification by Artificial Neural Networks	Journal of Natural Fibers
Amutha, K., Sudha, A., Saravanan, D.	Characterization of Natural Fibers Extracted from Banana Inflorescence Bracts	Journal of Natural Fibers
Hemanth, G.R., Charles Raja, S., Jeslin Drusila Nesamalar, J., Senthil Kumar, J.	Cost effective energy consumption in a residential building by implementing demand side management in the presence of different classes of power loads	Advances in Building Energy Research

## **BIT's Publication Journey**



**Ph.D. Awarded Research Scholars** 

Name of the Scholar	FT/PT	Date of Viva Voce	Name of the Supervisor
Jeya Prakash R	PT	04.01.2022	Dr Soundara B
Sathish D	PT	07.01.2022	Dr Jegadheeswaran S
Subhasri P	FT	07.01.2022	Dr Vijayakumar V N
Ramya A	FT	07.01.2022	Dr Vijayakumar V N
Ramya P	PT	07.01.2022	Dr Valarmathi R S
Manooj Kumaar S B	PT	11.01.2022	Dr Poongodi C
Balaganesh P	FT	11.01.2022	Dr Vasudevan M
Jayaraman A	PT	11.01.2022	Dr Senthilkumar V
Bhuvaneswari S	PT	19.01.2022	Dr Sivaraman P
Purusothaman P	PT	21.01.2022	Dr Gunasekaran M
Velmurugan S	PT	30.03.2022	Dr Sivakumar K
Aratrika Sarkar	FT	30.03.2022	Dr R Ravikumar
Sathish Kumar G	PT	27.04.2022	Dr Premalatha K
Sathish Kumar T R	PT	07.06.2022	Dr Jegadheeswaran S
Mohanraj A	PT	08.06.2022	Dr Senthilkumar V
Tajdeen A	PT	15.06.2022	Dr Megalingam A
Sundar Raju G	PT	24.06.2022	Dr Sivakumar K
Sivaraj G	PT	02.02.2022	Dr Parammasivam K M
Rajesh Kanna P	PT	21.04.2022	Dr Santhi P
Suresh Kumar M	PT	26.04.2022	Dr Boopathi S
Sajan P Philip	PT	18.05.2022	Dr Sampath P
Deepika J	PT	30.05.2022	Dr Rajan C
Shankar N	PT	30.06.2022	Dr Saravanakumar N

## **Completed Funded Projects**

### 1. GANESH BABU C, PROFESSOR, EIE

Proposal

UNICEF SPONSORED YOUNG WARRIORS - ENGAGING COMMUNITIES FOR PREVENTION OF COVID-19 AND PROMOTION OF COVID VACCINATION INCLUDING HESITANCY AND EAGERNESS

Objective(s) of Proposal

PREVENTION OF COVID-19 PROGRAMME IN BACR THROUGH COMMUNITY RADIO ASSOCIATION

Sanctioned Amount (in Rs.):36000

Duration: 3 MONTHS



### 2. TAMILSELVI S - BT

Proposal

## **NUTRACEUTICALS BASICS AND BEYOND**

Sanctioned Amount (in Rs.) :93000 FUNDING AGENCY : AICTE ATAL



#### 3. NIRMALADEVI J - ISE

Proposal

BEHAVIOURAL SIGNAL PROCESSING TOOLS AND TECHNIQUES FOR THE EMOTIONAL ANALYSIS IN AUTISM CHILDREN

Sanctioned Amount (in Rs.):150000 FUNDING AGENCY: KARYASHALA

Scope of Proposal

THIS COURSE WILL BE CONDUCTED UNDER ACCELERATE VIGYAN SCHEME INTENDED TOWARDS ABHYAAS MISSION TO UNDERSTAND THE NEED AND IMPORTANCE TO UNDERSTAND BEHAVIOURAL SIGNAL PROCESSING TOOLS AND TECHNIQUES FOR THE EMOTIONAL ANALYSIS IN AUTISM CHILDREN FOR THE YOUNG AND ASPIRANT RESEARCHERS TO HAVE THE OPPORTUNITY TO KNOW THE CURRENT RESEARCH ISSUES AND THE TOOLS TO ANALYSE THE BEHAVIOUR OF AUTISM CHILDREN.

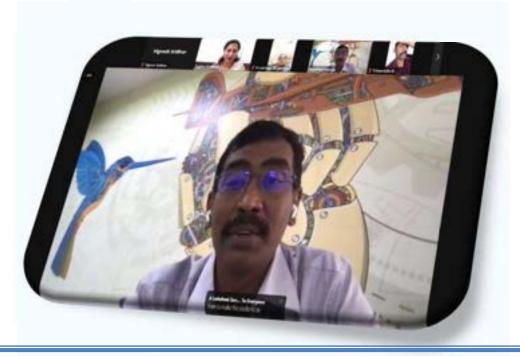


#### 4. JEGADHEESWARAN S - AE

Proposal

PEDAGOGY AND ASSESSMENT THROUGH DIGITAL LEARNING PLATFORM

Sanctioned Amount (in Rs.) :93000 FUNDING AGENCY :AICTE -ISTE



#### 5. RAJALASHMI K - EEE

Proposal

ENTREPRENEURSHIP DEVELOPMENT TRAINING ON VALUE ADDED AGRIPRODUCT SOLAR DRYER FOR THE EMPOWERMENT OF THE TRIBAL WOMEN IN KADAMBUR HILLS, SATHYAMANGALAM

Sanctioned Amount (in Rs.) :50000

**FUNDING AGENCY: TNSCST** 



### 6. SUBRAMANIAN K - BT

Proposal

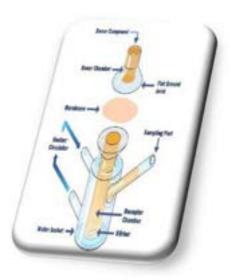
(SYNTHESIS AND CHARACTERIZATION OF THERMOREVERSIBLE HYDROGEL FOR CONTROLLED DELIVERY DRUGS)

Objective(s) of Proposal

POLYMER HYDROGEL WITH LCST IN THE TEMPERATURE RANGE 30 DEGREE CENTIGRADE TO 37 DEGREE CENTIGRADE FOR CONTROLLED AND TARGETTED DRUG DELIVERY

Sanctioned Amount (in Rs.): **7500** 

FUNDING AGENCY: TNSCST



#### 7. SUBRAMANIYAN C - ME

Proposal

AUTOMATIC MULTI CROPS HARVESTING MACHINE FOR ROOT VEGETABLES (CARROT, BEETROOT, ONION, AND GARLIC), FLOWER VEGETABLES (CABBAGE, CAULIFLOWER) FOR SMALL SCALE AND MEDIUM SCALE FARMERS IN TAMILNADU

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY : **TNSCST** 



## 8. ASHWIN RAJ S - BT

Proposal

A NOVEL INTENSIFIED TECHNOLOGY FOR PRODUCTION OF BIOBUTANOL FROM WASTE MUSHROOM SPENT BY BIOLOGICAL TREATMENT

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY: **TNSCST** 



### 9. RAJU C – EC

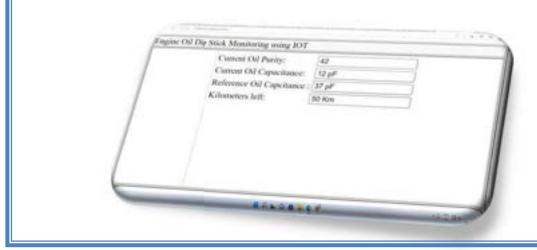
Proposal

A PORTABLE IOT BASED DIPSTICK TYPE ENGINE OIL LEVEL AND IMPURITIES MONITORING SYSTEM

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY: **TNSCST** 

Scope of Proposal

THE PRESENT INVENTION GENERALLY RELATES TO A SYSTEM AND METHOD FOR DESIGN AND DEVELOPMENT OF AN IOT BASED OIL IMPURITIES AND LEVEL MONITORING DEVICE AND ITS OPERATIONAL METHODOLOGY. ENGINE OIL AND LUBRICATING OIL IN INTERNAL COMBUSTION ENGINES ARE EXPOSED TO VARYING STRAINS DEPENDING ON THE OPERATING CONDITIONS AND THE FUEL QUALITY THEREFORE IT IS ESSENTIAL TO MAINTAIN THE QUALITY OF ENGINE OIL AND LUBRICATING OIL SO AS TO MINIMIZE THE FRICTION WITHIN THE ENGINE

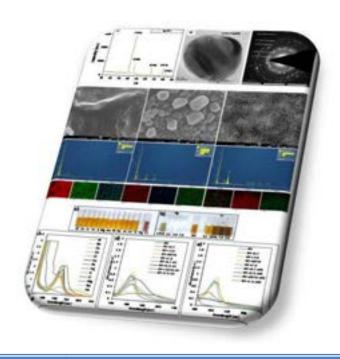


#### 10. SUDHEER KHAN S - BT

Proposal

DETECTION OF HEAVY METALS BY USING SILVER BASED NANOMATERAILS

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY : **TNSCST** 



11. VINOTHINI BT

Proposal

**SOLIDER STRAP** 

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY: **TNSCST** 

12. Archana J

**Proposal** 

CO<sub>2</sub> ENRICHMENT PLANTS FROM FACTORY EMISSIONS

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY : **TNSCST** 

13. NIMKAR AMEY SANJAY Agriculture Engineering

Proposal

**DESIGN DEVELOPMENT OF AGRIBOT WEEDER** 

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY : **TNSCST** 

14. JAYANTHI V Civil Engineering

Proposal

INNOVATIVE UTILIZATION OF AGRO WASTES IN EXPANSIVE SOIL STABILIZATION

Sanctioned Amount (in Rs.): **7500** FUNDING AGENCY : **TNSCST** 

## **Sanctioned Funded Projects**

1. SANJOY DEB-ECE

Proposal

Design and Field Installation of Multiple Road kill Prevention System Units under a Large Scale Wildlife Safety Initiative

Objective(s) of Proposal

TO DESIGN, DEVELOP AND VALIDATE ROADKILL PREVENTION SYSTEM

Sanctioned Amount (in Rs.): 8,53,704

Duration: 3 YEARS

AGENCY: RUFFORD SMALL GRANT, UK

2. SIVARAMAN P – EEE

Proposal

DEVELOPMENT OF INTEGRATED 6- PHASE ELECTRIC DRIVE SYSTEM FOR HYBRID/ELECTRIC VEHICLES AND TO PROMOTE SUSTAINABLE AGRICULTURE IN RURAL AREAS

Sanctioned Amount (in Rs.): 1374333

Duration: **3 YEARS**AGENCY: **AICTE RPS**Scope of Proposal

The rural people are highly dependent on public transportation that is not available during the pandemic

situation.

In future, with the proposed system the reduced size and cost of the electric vehicle making it feasible for rural people to be connected with towns for emergency. Also, it reduces the impact of co2 emission caused by internal combustion engines resulting replacement of fossil fuel with battery-operated vehicles. The proposed system offers an integrated inverter along with the motor resulting in reduced which is very compatible with 2&3 wheeler, small cars, public & last-mile transportation for rural people.



### **Ongoing Funded Projects**

1. Autonomous robotic manipulator for order picking task integrated with visula servoing, impedance control schemes and ASRS

Investigator: Dr K L Senthil Kumar, Professor, Dept. of MTRS and Head - Academics

**Grant :** Rs.8,51,769/- **Funding agency :** AICTE

This project integrates different sensors like vision, force to automate the order picking or retrieving task appropriately based on the order, for packaging or dispatching in a warehouse.

2. Technological interventions for enhancing productivity, scalability and value addition to obtain fiber from a local plant (Urtica dioica) for tribals in Nagaland

Investigator: Dr R Deepa, Assistant Professor (Level III), Department of EIE

Funding agency: DST - SEED Grant: Rs. 68,82,120/-



3. Design and Development of Wireless Automatic quality domestic water Distribution and wastage reduction management system with PLC controller and IOT implementation, for Athiyappagoundan Pudur Village, Sathyamangalam, Erode district, Tamil Nadu

**Investigator:** Dr.C.Ganeshbabu, Professor, Department of EIE

Funding agency: AICTE - RPS

Grant: Rs. 3,65,898/-

### 4. Design, Development and Validation of Thermocycler and Real-Time Cycler

**Investigator**: Dr K S Vairavel, Assistant Professor (Level III), Department of EIE **Funding agency**: DST - Instrumentation Development Programme (IDP)

Grant: Rs.34,46,000/-



# **Funding Proposals Submitted**

Faculty Name	Name of the Project	Amount (in Rs.)
Abdul Azeez N	Transdermal drug delivery across the lipid deprived dry skin using optimized metal organic framework	2437500
Anandha Moorthy A	Natural polymer material for bone replacement	1000000
Arulmurugan L	Smart agriculture using AI & IOT	1686000
Ashwin Raj S	A novel intensified technology for production of biobutanol from waste mushroom spent by biological treatment	7500
Balakrishnaraja R	Nutraceuticals and nutritional supplements	400000
Bazila Banu A	An international conference on "artificial intelligence and blockchain" icab 22	1381293
Bazila Banu A	An international conference on "artificial intelligence and blockchain" icab 22	1200000
Bharathi A	Smart communication assisting device for hearing disorder humans	5860000
Bharathiraja M	Studies, development and testing of pem fuel cell for electric two wheeler application	6356802
Daniel Madan Raja S	Detecting spam and malicious bots with emotional analysis on twitter data streams	300000
Deepa D	A scalable image quality transfer approach for differential diagnosis of dementia using mr oximetry at low field strengths	3576000
Deepa D	Personalizing health care treatment for diagnosis and prognosis of breast cancer on big data platform	2990000
Deepankumar S	Hudrogen combustion	500000
Dhinesh S K	Hi-tech drone for mining applications	937000
Dinesh D	Ronotics and automation in industry 4.0	300000
Dinesh Kumar L	Profiling and development of exosome based novel anti	2050000
Eswaramoorthy V	Development of artificial intelligent based mobile application for prediction of water quality using iot	1270000
Ganesh Babu C	Programme for bridging the gap in research funding for research scholars in colleges	300000

Faculty Name	Name of the Project	Amount (in Rs.)
Goldvin Sugirtha Dhas	Lyapunov theory based performance analysis of pv system with second order sliding mode controlled ultra lift luo converter	1139500
Gomathi R	Tools and techniques used for traffic prediction using machine learning	1476000
Gomathi R	Automated disease diagnosis and prediction using machine learning models	500000
Gowthami S	Personalizing health care treatment for diagnosis and prognosis of breast cancer on big data platform	2965000
Indirani C	On intuitionistic fuzzy semi supra open set and semi supra continuous functions	50000
Kamatchi Kannan V	Advanced solar panel laminating machine with testing features and online data acquisition	5572000
Kumaresan G	Development of indigenous evacuated tube solar still for potable water productivity enhancement during off sun light hours	2940825
Logeswari S	Tools in robotic process automation for business automation	500000
Manojkumar P	Sensing and analyzing of fish farming using iot	1763500
Murali Krishnan M	Naphthalocyanine dyad as photosensitizer for photodynamic therapy: a computational approach	1372800
Nandagopal M	Improvements of casting quality and working environment in advanced green sand moulding process	3000000
Nirmaladevi J	Behavioural signal processing tools and techniques for the emotional analysis in autism children	150000
Padmashree A	Detection and mitigation of attacks on internet of things using deep learning	500000
Pavithra MKS	Development of immunochromatographic assay using merozoite surface proteins for serological diagnosis of plasmodium infection	3572000
Perarasi T	Smart chair	2946217
Poongodi C	Smart antenna design for bmw applications	300000

Faculty Name	Name of the Project	Amount (in Rs.)
Prakash K B	3d Printable Hyperelastic Bone For The Medical Industry Applications	2374000
Premalatha K	Bioinformatics	30000
Premalatha K	Deep learning techniques for speech and image processing	300000
Pushpavalli M	Smart agriculture uisng ai & iot	1686000
Rajalashmi K	Optimization and cybersecurity challenges in smart power grids	300000
Rajalashmi K	Portable environment friendly low cost automated cow dung paper making machine	240000
Raju C	A portable iot based dipstick type engine oil level and impurities monitoring system	7500
Ramya P	Design development field trial of aquatic electric field generator	300000
Ramya P	Design development field trial of aquatic electric field generator	1803425
Ravi Kumar M	Southern india tropical optimized energy consumption based solar panel cleaning system with augmentation of various techniques.	6363000
Sadasivam K	Efficacy analysis of flavonoids against dengue virus docking, admet and dft investigations	1049000
Saran Kumar A	Traffic sign recognition system	7500
Shoukath Ali K	Smart chair	2946217
Srinivasan M	Energy management and conservation system in mines using iot	8976770
Subrata Das	Sustainable processing	1463000
Sudheer Khan S	Detection of heavy metals by using silver based nanomaterails	7500
Sudheer Khan S	Pcod detection kit	3256000
Tamilselvan S	lot based waste management system	1000000
Tamilselvan S	lot based waste management system	1000000
Vijay Franklin J	Design and development of epilepsy seizure prediction system	322416

## **Student Publications**

Student Name	Article Title	Journal Name
ABISHREE M	DEVELOPMENT AND OPTIMIZATION OF ICE CREAM BY INCORPORATING THE LEAVES OF AMARANTHUS CRUENTUS	INTERNATIONAL JOURNAL OF ADVANCES IN ENGINEERING AND MANAGEMENT
AGILESH R	IOT BASED SMART AGRICULTURE	JOURNAL OF MANUFACTURING ENGINEERING
AHAMED HUSSAIN A	OPTIMIZATION OF AXIAL FLUX PERMANENT MAGNET GENERATOR FOR LOW – SPEED WIND TURBINE APPLICATIONS USING GENETIC ALGORITHM	THE INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING AND TECHNOLOGY (IJEET)
AKILAN M	ARTIFICIAL INTELLIGENCE BASED CCTV ACCIDENT DETECTION AND NEARBY PATROL ALERT SYSTEM	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)
АМВІКА К	IMPLEMENTATION OF MULTI-INPUT ZCS BASED MULTI LEVEL INVERTOR FOR RENEWVABLE ENERGY SOURSES	IEEE-STCR 2021
AROCKIA JOSHWA J	PREDICT LOAN ELIGIBILITY USING MACHINE LEARNING	INTERNATIONAL JOURNAL OF INNOVATIVE SCIENCE,ENGINEERING AND TECHNOLOGY(IJISET)
ASRATH J	IOT BASED AGRICULTURE	JOURNAL OF MANUFACTURING ENGINEERING
BHUVAN R	FACE MASK AND TEMPERATURE DETECTION	INTERNATIONAL JOURNAL OF INNOVATIVE SCIENCE AND TECHNOLOGY
BHUVAN R	HASSLE FREE TAX CALCULATION WITH BARCODE USING ANDROID APP	INTERNATIONAL JOURNAL FOR ENGINEERING AND TECHNOLOGY
CHERAN K	"OPTIMIZATION OF AXIAL FLUX PERMANENT MAGNET GENERATOR FOR LOW–SPEED WIND TURBINE APPLICATIONS USING GENETIC ALGORITHM"	INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING AND TECHNOLOGY
CHITHRA A	A REVIEW ON REMOVAL STRATEGIES OF MICROORGANISMS FROM WATER ENVIRONMENT USING NANOMATERIALS AND THEIR BEHAVIOURAL CHARACTERISTICS	CHEMOSPHERE

Student Name	Article Title	Journal Name
CHITHRA A	AN APODICTIC REVIEW ON RECENT APPOACHES IN ENZYME TECHNOLOGY	BIOINTRFACE RESEARCH IN APPLIED CHEMISTRY
DEEPAK KUMAR S	SANITIZATION USING HEXACOPTER AUTONOMOUS DRONE	SCI INDEX
DHANUSHREE S	AI ALGORITHM BASED JACKET EJECTION FOR AUTOMATIC SECURITY SYSTEM IN WATER BODIES	TURKISH JOURNAL OF COMPUTER AND MATHEMATICS EDUCATION
DHARSHINI S	HASSLE FREE TAX CALCULATION USING ANDROID APP WITH BARCODE	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY
DHARSHINI V S	ARTIFICIAL INTELLIGENCE IN ROBOTICS	ARTIFICIAL INTELLIGENCE IN ROBOTICS
DHYANESH H	HEALTH CARE INSURANCE APPLICATION	HEALTH CARE INSURANCE APPLICATION
GEETHAPRIYA B	DEVICE DISCOVERY IN D2D COMMUNICATION: A SURVEY	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE AND ENGINEERING
GNANADESIGAN R	PERFORMANCE ANALYSIS OF THE CLASSIFICATION OF BREAST CANCER	2021 THIRD INTERNATIONAL CONFERENCE ON INVENTIVE RESEARCH IN COMPUTING APPLICATIONS (ICIRCA)
GOKUL E	WOMEN SAFETY PRECAUTION USING IMAGE PROCESSING	INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND INTELLIGENT TECHNOLOGIES [ICSCITâ€" 2021] CHERAN COLLEGE OF ENGINEERING
GOKUL RAJ R	SMART GLOVES FOR DISABLED PEOPLE	INTERNATIONAL JOURNAL FOR SCIENCE AND ADVANCE RESEARCH IN TECHNOLOGY
HARIHARAN K	EDGE CLOUD COMPUTING FOR IOT DATA ANALYTICS: EMBEDDING INTELLIGENCE IN THE EDGE WITH MACHINE LEARNING	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)

Student Name	Article Title	Journal Name
HARIHARAN S	IOT ENABLED HEAVY DUTY ELECTRICAL VEHICLES ON TRANSPORTATION AND LOGISTICS INDUSTRY	GIS SCIENCE JOURNAL
HARIHARAN S	REVIEW ON ELECTRIC TWO WHEELER CHARGES AND INTERNATIONAL STANDARDS	INNOVATION IN POWER AND ADVANCED COMPUTING TECHNOLOGIES
HARIHARASUTHAN N	E-AGRICULTURE AND RURAL DEVELOPMENT IN INDIA	INTERNATIONAL JOURNAL OF RESEARCH PUBLICATION AND REVIEWS
HARIKUMAR B	CHITOSAN CAPPED AG/NIS NANOCOMPOSITE:A NOVEL COLERIMETRIC DETECTION OF L-CYSTEINE AT NANOMOLAR AND ITS ANTIMICROBIAL ACTIVITY	
HARIKUMAR B	NANO AGO DECORATED-SILICA MATRIX FOR THE REMEDIATION OF ENVIRONMENTAL POLLUTANTS: VISIBLE- LIGHT DRIVEN CR(VI) PHOTOREDUCTION, PHOTODEGRADATION OF ORGANIC DYE, NANOMOLAR HG2+ DETECTION, AND ANTIMICROBIAL APPLICATIONS	
HARINI G	FABRICATION OF MNFE2O4 SPHERES MODIFIED CEO2 NANO-FLAKES FOR SUSTAINABLE PHOTODEGRADATION OF MB DYE AND ANTIMICROBIAL ACTIVITY: A BRIEF COMPUTATIONAL INVESTIGATION ON REACTIVE SITES AND DEGRADATION PATHWAY	COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS
HARINI G	RECENT ADVANCES ON GADOLINIUM-BASED NANOPHOTOCATALYSTS FOR ENVIRONMENTAL REMEDIATION AND CLEAN ENERGY PRODUCTION: PROPERTIES, FABRICATION, DEFECT ENGINEERING AND TOXICITY	JOURNAL OF CLEANER PRODUCTION
HARINI G	SUNLIT EXPEDITIOUS VISIBLE LIGHT MEDIATED PHOTO-FENTON DEGRADATION OF CIPROFLOXACIN BY EXFOLIATION OF NICO2O4 AND ZNO.3FE2.7O4 OVER G-C3N4 MATRIX: A BRIEF INSIGHT ON DEGRADATION MECHANISM, DEGRADED PRODUCT TOXICITY AND GENOTOXIC EVALUATION IN ALLIUM CEPA	CHEMOSPHERE
HARISH G	AIR QUALITY MONITORING SYSTEM FOR GAS LEAKAGE USING IOT WITH VERY LOW COST	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)

Student Name	Article Title	Journal Name
HARRINI V	IMPLEMENTATION OF MULTI-INPUT ZCS BASED MULTI LEVEL INVERTER FOR RENEWABLE ENERGY SOURCES	IEEE-STCR 2021
HARSHINI M	PHARMACEUTICAL APPLICATIONS OF BIOMEDICAL PRODUCTS TO PREVENT WOUND CAUSING BACTERIAL INFECTIONS	IJRAR
HIRTHICK GUHAN E K	STABILITY ANALYSIS OF BALL AND BEAM SYSTEM USING PID CONTROLLER	STABILITY ANALYSIS OF BALL AND BEAM SYSTEM USING PID CONTROLLER
JANANI B	DESIGNING INTIMATE POROUS AL2O3 DECORATED 2D CDO NANO- HETEROJUNCTION AS ENHANCED WHITE LIGHT DRIVEN PHOTOCATALYST AND ANTIBACTERIAL AGENT	JOURNAL OF ALLOYS AND COMPOUNDS
JANANI B	FACILE CONSTRUCTION OF 3D CDS-AG2S NANOSPHERES: A COMBINED STUDY OF VISIBLE LIGHT RESPONSIVE PHTOTOCATALYSIS, ANTIBACTERIAL AND ANTI-BIOFILM ACTIVITY	A: PHYSICOCHEMICAL AND
JANANI M	DESIGN AND OPTIMIZATION OF PLC BASED AUTOMATIC ROVING MACHINE FLYER SPEED CONTROL USING VFD	SCOPUS
JANANI R	PHARMACEUTICAL APPLICATION OF BIOMEDICAL PRODUCTS TO PREVENT WOUND CAUSING BACTERIAL INFECTION	
JAYA MURUGAN R	MODIFIED COMPRESSIVE SENSING AND DIFFERENTIAL OPERATION BASED CHANNEL FEEDBACK SCHEME FOR MASSIVE MIMO SYSTEMS FOR 5G APPLICATIONS	SMART INNOVATION SYSTEM ANFD TECHNOLOGIES
JAYADARSHAN N S	REVIEW ON ELECTRIC TWO WHEELER CHARGERS AND INTERNATIONAL STANDARDS	IEEE XPLORE
JEGADEESWARI J S	SOCIAL DISTANCE REMAINDER	INTERNATIONAL JOURNAL OF ADVANCED ENGINEERING SCIENCE AND INFORMATION TECHNOLGY (IJAESIT)
JIDESH T	HOME CARE SMART BED FOR POST CHILDHOOD PEOPLE	INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING AND TECHNOLOGY (IJEET)

Student Name	Article Title	Journal Name
JOSHUA ROBERT J	FUZZY CONTROL OF ACTIVE SUSPENSION SYSTEM BASED ON QUARTER CAR MODEL	ELSEVIER
JOSHUA ROBERT J	RECENT TRENDS IN ADDITIVE MANUFACTURING OF ELECTRONICS DEVICES	ELSEVIER
	A HIGH-EFFICIENT JOINT CLOUD-EDGE AWARE STRATEGY FOR TASK DEPLOYMENT AND LOAD BALANCING	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE AND ENGINEERING
KAVIN M, KARTHIKEYAN R, KAVIN M	ANALYSE THE DIMENSIONAL PROPERTIES OF THE SILK WITH SOY FIBRE YARN FABRIC	IRJET
KAVIYARASU S	MODELLLING AND CONTROL OF A BIDIRECTIONAL DC -DC CONVERTER FED DRIVE FOR ELECTRIC VEHICLE SYSTEM	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN SCIENCE, ENGINEEERING AND TECHNOLOGY
KEERTHANA N	FINGERPRINT INTEGRATED E-HEALTH MONITORING SYSTEM USING IOT	MICROELECTRONIC DEVICES, CIRCUITS AND SYSTEMS
KISHORE S	CLASSIFICATION OF GROUNDNUT OIL USING ADVANCED ATR-MIR SPECTROSCOPY AND CHEMOMETRICS	FOOD ANALYTICAL METHODS
KOUSHIKA K S	DEVICE DISCOVERY IN D2D COMMUNICATION: A SURVEY	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN SCIENCE AND ENGINEERING
LOOGESH M	MODELLINGAND CONTROL OF BIDIRECTIONAL DC-DC CONVERTER FED DRIVE FOR ELECTRIC VEHICLE SYSTEM	
МАНІМА G	SMART HOUSEHOLD POULTRY FARMING	INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING AND TECHNOLOGY (IJEET)
MATHAN A	INVESTIGATION ON THE EFFECT OF STACKING SEQUENCE ON MECHANICAL PROPERTIES OF A BASALT AND CARBON FIBER HYBRID COMPOSITE	

Student Name	Article Title	Journal Name
MITHULKIRUTHIK K S	HYBRID ELECTRIC VEHICLES: EXISTING CONCEPTS AND FUTURE DEVELOPMENTS	ADVANCEMENT AND RESEARCH IN INSTRUMENTATION ENGINEERING
MOHANA KRISHNAN V	SENTIMENT ANALYSIS ON AIRLINE REVIEWS AND FLIGHT BOOKING TIME SUGGESTION USING SIX BOOKING ZONE CONCEPT	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET)
MOULIESHWARAN B	ENHANCED GOODPUT AND ENERGY- EFFICIENT GEO-OPPORTUNISTIC	SMART COMPUTING TECHNIQUES AND APPLICATIONS
MUKUNDHAN, KALAIVANI J, VANCHINATHAN A, ABISHEK S, ILAVARASAN G, ABISHECK N, JAYA SURYA C, SANTHOSH K	BIOTECHNOLOGY IN AGRICULTURE	INTERNATIONAL RESEARCH JOURNAL OF MODERNIZATION IN ENGINEERING TECHNOLOGY AND SCIENCE
NADIN E S	IOT BASED WATER QUALITY MONITORING SYSTEM WITH CHLORO NEUTRALIZER	INDIAN JOURNAL OF NATURAL SCIENCE
NANDHAKUMAR K P	ADAPTIVE DRIVER MONITORING SYSTEM	IJARBEST SCIENTIFIC PUBLISHERS
NAVEEN A T	HASSLE-FREE TAX CALCULATION WITH BARCODE USING ANDROID APP	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY(IRJET)
NIKESH S	ASTHMA INHALING AND ANALYZING DEVICE INTERFERING WITH APPLICATION SOFTWARE	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN ELECTRICAL, ELECTRONICS, INSTRUMENTATION AND CONTROL ENGINEERING
NIKHIL SEENIVASAN V	SMART POWER QUALITY MONITORING USING ARDUINO CONTROLLER	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY
PRASAANTH G	DETECTION OF BIRDS IN AGRARIAN FIELDS USING IMAGE PROCESSING TECHNIQUE	RECENT TRENDS IN ARTIFICIAL INTELLIGENCE & ITS APPLICATIONS
PRASAD K S	DESIGN AND FABRICATION OF ARDUINO CONTROLLED CNC FOAM CUTTING MACHINE	INTERNATIONAL JOURNAL OF AQUATIC SCIENCE

Student Name	Article Title	Journal Name
PRASANTH S	A MACHINE LEARNING METHODOLOGY FOR DIAGNOSING CHRONIC KIDNEY DISEASE	IRJET JOURNAL
PRAVEEN BALAJI S	REVIEW ON ELECTRIC TWO WHEELER CHARGES AND IT'S INTERNATIONAL STANDARD	INNOVATION IN POWER AND ADVANCED COMPUTING TECHNOLOGIES
PRAVEENKUMAR S	NUMERICAL INVESTIGATION ON EFFECT OF BIPOLAR PLATE IN PEMFC	IJARBEST
PRIYA KUNHIRAMAN	IN SILICO VALIDATION OF PROTEIN MODELS AND EVOLUTIONARY ANALYSIS OF THE AMANITA PHALLOIDES MUSHROOM	THE JOURNAL OF ORIENTAL RESEARCH MADRAS
RAAJA RAJESHWARI M	DECORATION OF AG2WO4 ON PLATE-LIKE MNS FOR MITIGATING THE CHARGE RECOMBINATION AND TUNED BANDGAP FOR ENHANCED WHITE LIGHT PHOTOCATALYSIS AND ANTIBACTERIAL APPLICATIONS	JOURNAL OF ALLOYS AND COMPOUNDS
RAAJA RAJESHWARI M	RECENT DEVELOPMENTS IN ARCHITECHTURING THE G-C3N4 BASED NANOSTRUCTURED PHOTOCATALYSTS: SYNTHESIS, MODIFICATIONS AND APPLICATIONS IN WATER TREATMENT	CHEMOSPHERE
RAAJA RAJESHWARI M	RECENT DEVELOPMENTS IN ARCHITECTURING THE G-C3N4 BASED NANOSTRUCTURED PHOTOCATALYSTS: SYNTHESIS, MODIFICATIONS AND APPLICATIONS IN WATER TREATMENT	CHEMOSPHERE
RAGUL M	REVIEW ON SELECTION OF BATTERY PACK FOR PURE ELECTRIC VEHICLE AND TECHNICAL COMPARISON OF BATTERY PACKS	IEEE
RAKUL A	A REVIEW ON THERMAL INSULATION PROPERTIES OF NONWOVEN FABRICS	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY(IRJET)
RAMYA DEEKSHITHA K	BRAIN TUMOR DETECTION USING MRIBY MACHINE LEARNING	SURAJ PUNJ JOURNAL FOR MULTIDISCIPLINARY RESEARCH
RASHWANTH A	NUMERICAL INVESTIGATION ON EFFECT OF BIPOLAR PLATE IN PEMFC	IJARBEST

Student Name	Article Title	Journal Name
RITHIKA В	EMOTION BASED SONG SUGGESTION USING DEEP LEARNING	INTERNATIONAL JOURNAL OF ADVANCED TECHNOLOGY IN ENGINEERING AND SCIENCE
RUPASHIRE P	PROGNOSIS OF BIOGAS PRODUCTION FROM SEWAGE TREATMENT PLANT USING MACHINE LEARNING	INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY
SABARESHWARAN M	PELTIER BASED TEMPERATURE CONTROLLED SMART MINI REFRIGERATOR	PELTIER BASED TEMPERATURE CONTROLLED SMART MINI REFRIGERATOR
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