



## LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, NTR District, Andhra Pradesh, INDIA.  
Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada.  
Accredited by NAAC with “A” Grade and NBA Tier-1 for ASE, CE, CSE, IT, ECE, EEE & ME.  
An ISO 21001:2018, 14001:2015, 50001:2018 Certified Institution.

### Research & Development Cell

Date: 12-10-2023

#### Details of R & D Accomplishments during the A.Y.: 2022-23

- i. No. of SCI/ESCI papers : **40/20**
- ii. No. of Papers in Scopus indexed Journals : **22**
- iii. No. of Papers in Conf. Proceedings indexed by Scopus : **110**  
**Total Papers in SCI & Scopus : 192**

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- iv. No. of Open Access Journals : **30**

#### R & D Publications for the A.Y.: 2022-23

(From 1<sup>st</sup> July 2022 – 30<sup>th</sup> June 2023)

S.No.	Dept.	WoS		Scopus		Total	UGC/Open Access
		SCI	ESCI	Scopus-J	Scopus-C		
1.	AI&DS	0	0	1	9	10	0
2.	ASE	1	0	0	2	3	0
3.	CE	0	0	1	4	5	0
4.	CSE	9	0	3	29	41	3
5.	ECE	6	10	4	26	46	8
6.	EEE	12	1	3	13	29	7
7.	IT	5	2	2	9	18	1
8.	ME	4	6	2	15	27	4
9.	MBA	0	0	1	0	01	5
10.	FED	3	1	5	3	12	2
<b>Total</b>		<b>40</b>	<b>20</b>	<b>22</b>	<b>110</b>	<b>192</b>	<b>30</b>

## **i. SCI/ESCI Papers**

### **SCI Papers: 40**

AI&DS: 0 ASE: 1 CE: 0 CSE: 9 ECE: 6 EEE: 12 IT: 5 ME: 4 MBA: 0 FED: 3 Total :40

#### **Department of Aerospace Engineering (ASE): 01**

1. **Effect of free boundary on the performance of single expansion nozzle, I. Dakshina Murthy, P. Lovaraju, Ramachandra Raju Vegesna, International Journal of Turbo & Jet Engines, Published online: 15<sup>th</sup> May 2023, <https://doi.org/10.1515/tjj-2023-0034>.**

#### **Department of Computer Science Engineering (CSE): 09**

2. **A mass correlation based deep learning approach using deep Convolutional neural network to classify the brain tumor, Gandhi Sathyanarayana, P. Appala Naidu, Venkata Subbaiah Desanamukula, Kadupukotla Satish Kumar, B. Chinna Rao, Biomedical Signal Processing and Control, Vol.81, 2023, ISSN: 1746-8094  
<https://www.sciencedirect.com/science/article/abs/pii/S1746809422008497?via%3Dihub>**
3. **An optimized generalized adversarial system for predicting specific substructures in brainstem. B. Srikanth, S. Jayaprada, K. Kranthi Kumar, Kavitha Chaduvula, Babu Rao Markapudi Syed Khasim, Multimedia Tools and Applications, ISSN:1573-7721/1380-7501  
<https://link.springer.com/article/10.1007/s11042-022-13663-9>**
4. **Optimized CNN-based Brain Tumor Segmentation and Classification using Artificial Bee Colony and Thresholding, P. Ashok Babu, B. V. Subba Rao, Y. Vijay Bhaskar Reddy, G. Rajendra Kumar, J. Nageswara Rao, Surendra Kumar Reddy, G. Sunil Kumar, International Journal of Computers Communications & Control, ISSN:1841-9844  
<https://univagora.ro/jour/index.php/ijccc/article/view/4577>**
5. **Convolutional gated recurrent unit networks based real time monaural speech enhancement. V. Sunny Dayal, Vaishnavi Anumola, Ponnappalli Tejasree, R. Divya and B. Manaswini, Multimedia Tools and Applications, May 2023.  
<https://link.springer.com/article/10.1007/s11042-023-15639-9>**
6. **Prediction of biomedical signals using deep learning techniques, Kalaivani, K. Kshirsagar, Pravin R, Sirisha Devi, Bandela, Surekha Reddy, Colak, Ilhami, Nageswara Rao, Rajaram, A. Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology, 01-06-2023, 1841-9844,  
<https://dl.acm.org/doi/abs/10.3233/JIFS-230399>**
7. **Gene expression data classification with robust sparse logistic regression using fused regularisation, Kampa Lavanya, Pemula Rambabu, G. Vijay Suresh and Rahul Bhandari  
International Journal of Ad Hoc and Ubiquitous Computing, 01-04-2023,  
<https://www.inderscienceonline.com/doi/pdf/10.1504/IJAHUC.2023.130470>**
8. **Detection of Malicious Cloud Bandwidth Consumption in Cloud Computing Using Machine Learning Techniques**

- D. Veeraiah**, Mohanty R, Kundu S, Dhabliya D, Tiwari M, Jamal SS, Halifa, Computational Intelligence and Neuroscience, ISSN: 1687-5273/1687-5265, <https://www.hindawi.com/journals/cin/2022/4003403/>
9. **Security Protection Mechanism in Cloud Computing Authorization Model Using Machine Learning Techniques**, Pradeep Kumar Tiwari, K. Kannan, **Duggineni Veeraiah**, Nikhil Ranjan, Jain Singh, Ghalib H. Alshammri, Awal Halifa, Wireless Communications and Mobile Computing, Article ID: 1907511, <https://www.hindawi.com/journals/wcmc/2022/1907511/>
10. **The future development direction of cloud associated edge-computing security in the era of 5G as edge intelligence**, **Odugu Rama Devi** Julian Webber, Abolfazl Mehbodniya, Morsa Chaitanya, Parag S. Jawarkar, MukeshSoni and Shahajan Miah Hindawi Scientific Programming, ISSN:1058-9244, E-ISSN:1875-919X Volume 2022, Article ID 1473901, <https://doi.org/10.1155/2022/1473901>

### **Department of Electronics and Communication Engineering (ECE): 06**

11. **Doppler Sodar measured winds and sea breeze intrusions over gadanki(13.5<sup>0</sup> N, 79.2<sup>0</sup> E), India**, Potula Sree Brahmanandam, G. Uma, K. Tarakeswara Rao, S.Sreedevi, N.S.M.P. Latha Devi, Yen-Hsyangchu, Jayas hree Das, K. Mahesh Babu, **A. Narendra Babu**, Subrata Kumar Das, V. Naveen Kumar, K. Srinivas, in Sustainability June 2023, ISSN: 2071-1050, <https://doi.org/10.3390/su151612167>
12. **Simultaneous Seismic Data Denoising and Reconstruction with Attention based Wavelet-Convolutional Neural Network**, Vineela Chandra Dodda, **Lakshmi Kuruguntla**, Anup Kumar Mandpura, Karthikeyan Elumalai, in IEEE Transactions on Geoscience and Remote Sensing, April 2023, ISSN:1558-0644, [10.1109/TGRS.2023.3267037](https://doi.org/10.1109/TGRS.2023.3267037)
13. **Ensemble deep honey architecture for COVID-19 prediction using CT Scan and Chest X-ray images**, B.Bhaskar Reddy, **M.Venkata Sudhakar**, P.Rahul Reddy, P.Raghava Reddy, in Multimedia Systems, April 2023, ISSN: 1432-1882, <https://doi.org/10.1007/s00530-023-01072-3>
14. **Investigations on Complementary Split Ring Resonator(CSRR) array integrated printed conformal band pass filters for modern wireless communication applications**, KV.Vineetha, **P.Rakesh Kumar**, **A.NarendraBabu**, J. BramaiahNaik, BTP Madhav, Sudipta Das, Journal of Instrumentation, 17, Oct-22, 10043, 1748-0221, 10.1088/1748-0221/17/10/P10043
15. **Automotive communication applications based circular ring antenna with reconfigurability and conformal nature**, Tirunagari Anil kumar, B.T.P. Madhav, M. Venkateswara Rao, B. Prudhvi Nadh, **P. Rakesh Kumar**, International Journal of Communication Systems, Oct-22, 1099-1131, <https://doi.org/10.1002/dac.5364>
16. **Importance of the donor unit on fluoranthene for selective detection of nitro aromatic explosives**, Kasthuri Selvaraj, Praveen B, Sharmarke Mohamed, **Satyanarayana Talam**, Venkataramaiah Nutalapati, Journal of Photochemistry & Photobiology, A: Chemistry, 433, Aug-22, 114215, 1010-6030,

**Department of Electrical and Electronics Engineering (EEE): 12**

17. **Assessment of integrated renewable energy system state through VFMM—A novel approach**, K. Harinadha Reddy, Electric Power Systems Research, Vol. 216, March 2023, 09056.  
<https://www.sciencedirect.com/science/article/pii/S0378779622011051>
18. **Improved tunicate swarm search-based MPPT for photovoltaic on a grid-connected inverter system**, Godina Venkata Lakshmi & K. Harinadha Reddy, Environmental Science and Pollution Research, 29, 78650–78665, 13<sup>th</sup> June 2022, ISSN:0944-1344  
<https://doi.org/10.1007/s11356-022-21157-2>.
19. **Machine Learning k-Means Cluster Support S-FSCV Algorithm to Estimate Integrated Network Operating State**, K. Harinadha Reddy, Arabian Journal for Science and Engineering., 48, pages 2473–2488, 04<sup>th</sup> Oct. 2022  
<https://link.springer.com/article/10.1007/s13369-022-07356-6>.
20. **A deep CNN approach for islanding detection of integrated DG with time series data and scalogram**, Ch. Rami Reddy, K. Harinadha Reddy, Soft Computing, Volume 27, Pages 4943–4951, April 2023, <https://link.springer.com/article/10.1007/s00500-022-07561-3>
21. **A robust passive islanding detection technique with zero-non-detection zone for inverter-interfaced distributed generation**, B. Pangedaiah, Y.P. Obulesu, Venkata Reddy. K, P.L. Santosh Kumar Reddy, Mamdouh L. Alghaythi, IEEE Access, Vol 10, Pages: 96296 – 96306, ISSN:2169-3536, Dec. 2022.  
<https://ieeexplore.ieee.org/document/9881501>
22. **Combined DC-Link Fed Parallel-VSI-Based DSTATCOM for Power Quality Improvement of a Solar DG Integrated System**, P.V.V. Satyanarayana, A. Radhika, Ch. Rami Reddy, B. Pangedaiah, L. Martirano Electronics (MPDI) January 2023  
[doi.org/10.3390/electronics12030505](https://doi.org/10.3390/electronics12030505).
23. **Investigation and Minimization of Power Loss in radial distribution network using gray wolf optimization**. M. Alqahtani, P. Mari, V. Moorthy, B. Pangedaiah, Ch. Ramireddy, M. Kirankumar, M. Khalid, Energies, June 2023, 16, 4571,  
<https://doi.org/10.3390/en16124571>.
24. **A hybrid deep learning for patient activity recognition (PAR): Real time body wearable sensor network from healthcare monitoring system (HMS)**, Balasubramanian, Kishore, Prabu, A.V., Shaik, Mahammad Firose, R. Anjaneyulu Naik, Suguna, S. Kanimozhi, Journal of Intelligent & Fuzzy Systems, Sep. 2022,  
[doi.org/10.3233/JIFS-212958](https://doi.org/10.3233/JIFS-212958).
25. **Design of mobile robot navigation controller using neuro-fuzzy logic system** Divyendu Kumar Mishra, Aby Thomas, Jinsa Kuruvillab, P. Kalyanasundaram, K. Ramalingeswara Prasad, Anandakumar Haldoraie, Computers and Electrical Engineering, ISSN:1869-9391, Vol. 101, page 108044, 10<sup>th</sup> July 2022,  
<https://doi.org/10.1016/j.compeleceng.2022.108044>
26. **Maximum Power Point Tracking Algorithm Based on Particle Swarm Optimization to Capture Maximum Power from PV Strings**, G. Radhika, M. Raja Nayak, M. Saritha, Rowthu Padma, T. Nagaraju, T. Santhosh Kumar, Sustainable Energy Technologies and

27. Is It Feasible to Reduce Academic Stress in Net-Zero Energy Buildings? Reaction from Chat GPT, **P.Sobha Rani.**, K.Radha Rani., D.SureshBabu., A. Ravi, Annals of Bio medical engineering' (Springer Nature), September 2022. <https://doi.org/10.1007/s10439-023-03286-y>
28. **Optimal renewable resource for enhanced performance of unbalanced radial distribution systems** Chintalapudi V. Suresh ,Munigoti S. Giridhar , Ch. Naga Sai Kalyan1, K. Prudhvi Raju ,Microsystem Technologies <https://doi.org/10.1007/s00542-022-05409-2>.

#### **Department of Information Technology (IT): 05**

29. **A Hybrid Classification of Imbalanced Hyper spectral Images Using ADASYN and Enhanced Deep Subsampled Multi-Grained Cascaded Forest** Debaleena Datta, Pradeep Kumar Mallick, **Annapareddy VN Reddy**, Mazin Abed Mohammed, Mustafa Musa Jaber, Abed Saif Alghawli, Mohammed AA Al-qaness, Remote Sensing MDPI journal, ISSN:2072-4292, <https://www.mdpi.com/2072-4292/14/19/4853/>
30. **Integrated Design of Optimized Weighted Deep Feature Fusion Strategies for Skin Lesion Image Classification**, Niharika Mohanty, Manaswini Pradhan, **Annapareddy V. N. Reddy**, Sachin Kumar,Ahmed Alkhayyat Cancers MDPI journal, ISSN: 2072-6694  
<https://www.mdpi.com/2072-6694/14/22/5716/>
31. **An efficient brain tumor classification using MRI images with hybrid deep intelligence model**, **Annapareddy VN Reddy**, Pradeep Kumar Mallick, B Srinivasa Rao, Phaneendra Kanakamedala, The Imaging Science Journal(Taylor & Francis), ISSN:1368-2199.
32. **An empirical hybridized Siamese network using hypercube natural aggregation algorithm for handling imbalance data learning.**  
Subhashree Rout, Pradeep Kumar Mallick, **Annapareddy VN Reddy**, Meshal Alharbi, Ahmed Alkhayyat, Expert Systems Journal, ISSN:1468-0394.
33. **Prediction of chronic kidney disease from patient record using ensemble ranking SVM**  
Tatireddy Subba Reddy, **V. V. Krishna Reddy**, R. Vijaya Kumar Reddy, Chandra Sekhar Kolli, V. Sitharamulu&Majjaru Chandrababu, The Imaging Science Journal (Taylor & Francis), ISSN:1368-2199,

#### **Department of Mechanical Engineering (ME): 04**

34. Experimental Investigation of Aluminum oxide Nanofluid on Closed loop Pulsating Heat Pipe Performance P.Venkataramana, **P.Vijaya Kumar**, B.Balakrishna, Journal of Applied Fluid Mechanics, July 2022. ISSN: 1947-1955,  
[https://www.jafmonline.net/article\\_2116.html](https://www.jafmonline.net/article_2116.html).

35. Combined assessment of injection timing and exhaust gas recirculation strategy on the performance, emission and combustion characteristics of algae biodiesel powered diesel engine **Vallapudi Dhana Raju**, Jayashri N Nair, Harish Venu, Lingesan Subramani, Manzoore Elahi M. Soudagar, MA Mujtaba, T.M. Yunus Khan, Khadiga Ahmed, Ismail, Ashraf Elfakhany, Abdulfatah Abdu Yusuf, Badr A Mohamed & Islam M. R. Fattah  
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Sep 2022, ISSN: 1556-7036, <https://doi.org/10.1080/15567036.2022.2123068>.
36. Influence of Rotary Assisted Electrical Discharge Machining of 17-4PH Stainless Steel Using Taguchi Technique **Murahari Kolli**, Satyanarayana Kosaraju, Devaraju Aruri, & Medikonda Nageswararao, Indian Journal of Engineering & Materials Sciences, Vol. 29, pp. 799-806, January 2023, ISSN: 1955-2513 <https://doi.org/10.56042/ijems.v29i6.70267>.
37. Hybrid controller for battery operation in photovoltaic assisted EV charging station **S. Rami Reddy**, Saroj Kumar Sarangi International Journal of Electronics, Feb, 2023, <https://doi.org/10.1080/00207217.2023.2173806>

. **Freshmen Engineering Department (FED): 03**

38. Impact of copper ions on physical, structural, spectroscopic, and dielectric properties of  $\text{Bi}_2\text{O}_3\text{-CaO-P}_2\text{O}_5\text{-B}_2\text{O}_3$  glasses, **S. Yusub**, Y. Chaitanya, A. Ramesh Babu, V. Aruna, N. Sree Ram, Ch. Linga Raju, Materials Chemistry and Physics, 290(1), 22<sup>nd</sup> August 2022, pp.1-10, 0254-0584. <https://doi.org/10.1016/j.matchemphys.2022.126584>
39. “Electrical and spectroscopic characteristics of  $\text{B}_2\text{O}_3\text{-Bi}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-MgO}$  glasses alloyed with MnO, **S. Yusub**, G. Krishna Priya, A. Ramesh Babu, N. Sree Ram, V. Aruna, J. Physics and Chemistry of Solids, 170(1), 22<sup>nd</sup> November 2022, pp:1- 11, 0022-3697. <https://doi.org/10.1016/j.jpics.2022.110957>
40. Nonlinear radiation phenomena for Casson–Maxwell nanoliquid flow with chemical reactions  
K. Gangadhar, E.M. Victoria, **K. Bhanu Lakshmi**, A.J. Chamka, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 20<sup>th</sup> Sep. 2022, pp:1-11, 2041-3009,  
<https://doi.org/10.1177/09544089221132356>

## ESCI Papers: 20

AI&DS: 0 ASE: 0 CE: 0 CSE: 0 ECE: 10 EEE: 1 IT: 2 ME: 6 MBA: 0 FED: 1 Total :20

### Department of Electronics and Communication Engineering (ECE): 10

1. **Studies on stability of polymer thick film resistors by using pulse voltage trimming method (PVTM), Poornaiah Billa, Y.SrinivasaRao in Journal of Active and Passive Electronic Devices, 17(1), 1-19, May 2023, ISSN: 1555-029X**

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-17-number-1-2023/japed-17-1-p-1-19/>

2. **Implementation of 23 Gbps optical wireless link for 750 km inter-aircraft communications, M.Venkata Sudhakar, G.K. Rajani, Engineering Research Express, 5(1) February 2023, ISSN: 2631-8695, DOI: 10.1088/2631-8695/acbd89**

3. **Design of Near-threshold CMOS and TG Based Adder Circuit for Computing Applications, Basha, Gundala Srinivasulu, Busi Rambabu, , Naishadh kumar PV, Journal of Active and Passive Electronic Devices, 16(3), 191-201, December 2022, ISSN: 1555-029X,**

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-16-number-3-2022/japed-16-3-p-191-201/>

4. **The influence of high voltage impulses on PVC-Graphite Thick Film Resistors, Busi Rambabu, T. Satyanarayana, Gundala Srinivasulu, Y. Srinivasa Rao, in Journal of Active and Passive Electronic Devices, 16(3), 225-231, Dec 2022, ISSN: 1555-029X**

<https://www.oldcitypublishing.com/journals/japed-home/japed-issue-contents/japed-volume-16-number-3-2022/japed-16-3-p-225-231/>

5. **Polyimide-based flexible antenna for Telemedicine and wireless applications, Prathipati Rakesh Kumar, B.Y.V.N.R. Swamy, B. Siva Hari Prasad, K. Rama Krishna, A. Narendra Babu, Potula Sree Brahmanandam, in Recent Advances in Electrical & Electronic Engineering, 16 (4), December 2022, 10.2174/2352096516666221201095009, 426-435, 2352-0965, <https://doi.org/10.3390/electronics10030334>**

6. **IoT framework for monitoring the condition of roads, Ravi Kumar Kandagatla, V. Jayachandra Naidu,P.S. Sreenivas Reddy, T.V. PreethikaLahari, J. Prudhvi, K. Kavya Sri, S. Dhanush, Journal of Engineering Science and Technology, 18(1), January 2023, 100-111, 1823-4690,**

[https://jestec.taylors.edu.my/Vol%2018%20Issue%201%20February%20%202023/18\\_1\\_8.pdf](https://jestec.taylors.edu.my/Vol%2018%20Issue%201%20February%20%202023/18_1_8.pdf)

7. **A Novel approach for Wearable Antenna Design for Biomedical applications, K.Rani Rudrama, G.Catherine Christina, R. Teja, P.Niteesh Kumar, M. Anush, K.Srinivasa Rao, Transactions on Electrical and Electronic Materials, Aug-22, 2092-7592, [10.1109/TBCAS.2020.3010259](https://doi.org/10.1109/TBCAS.2020.3010259)**

8. **Internet of things based pesticide spraying robot- A revolutionary in smart Farming**, A. Narendra Babu, Mahija Cherry Blossom, A. Praneetha, P. Shirisha, P. Mani Kishore, F. Mary Mounika, Indian Journal of Science and Technology, 15, 29, Jul-22, [10.17485/IJST/v16i22.926](https://doi.org/10.17485/IJST/v16i22.926)
9. **Smart Energy Meter**, A.Narendra Babu, Ch V L D Kavya, A. Praneetha, TT Sai Dhanush, TV Ramanaiah, K Nideesh, PS Brahmanandam, Indian Journal of Science and Technology, 15, 29, Jul-22, 1451-1457, 0974-6846, [10.17485/IJST/v15i29.1241](https://doi.org/10.17485/IJST/v15i29.1241)
10. **Structural investigations of borate incorporated germanium antimonite glasses**, A. Pranav Kumar, S.HimaBindu, P.VenkateswaraRao, K.Naveen Kumar, M. Mohan, **T.Satyanarayana**, M.Sroda, P.Syam Prasad, Results in Chemistry, 4, Jul-22, 100449, 2211-7156, <https://doi.org/10.1016/j.rechem.2022.100449>

#### **Department of Electrical and Electronics Engineering (EEE): 01**

11. **Optimal Switching Operations of Soft Open Points in Active Distribution Network for Handling Variable Penetration of Photovoltaic and Electric Vehicles Using Artificial Rabbits Optimization**, VaraprasadJanamala, K. RadhaRani, **P. Sobha Rani**, A. N. Venkateswarlu, I. Sai Ram, Process Integration and Optimization for Sustainability, December 2022. <https://doi.org/10.1007/s41660-022-00304-9>.

#### **Department of Information Technology (IT): 02**

12. **A Tailored Particle Swarm and Egyptian Vulture Optimization-Based Synthetic Minority-Oversampling Technique for Class Imbalance Problem**, Subhashree Rout, Pradeep Kumar Mallick, **Annapareddy V. N. Reddy** and Sachin Kumar Information Journal (MDPI), ISSN: 2078-2489, <https://www.mdpi.com/2078-2489/13/8/386>
13. **Chronic Kidney Disease Prediction Using ML-Based Neuro-Fuzzy Model** S Phani Praveen, Veerapaneni Esther Jyothi, Chokka Anuradha, **K VenuGopal**, Vahiduddin Shariff, and S Sindhura International Journal of Image and Graphics, ISSN :02194678, <https://www.worldscientific.com/doi/10.1142/S0219467823400132>

#### **Department of Mechanical Engineering (ME): 06**

14. Influence of Zr<sub>2</sub>O<sub>3</sub> nano additives on particle size diameter (PSD), mass fraction burnt (MFB) and engine characteristics of Jatropha biodiesel fuelled DI diesel engine, Harish Venu, Prabhu Appavu, **Dhana Raju V**, Australian Journal of Mechanical Engineering, July 2022, ISSN 1448-4846, <https://doi.org/10.1080/14484846.2022.2100042>
15. Finite Element modelling aspects in the failure assessment of a low pressure steam turbine blade Ravi prakash babu Kocharla, Raghu Bandlamudi, Devarau Aruri, **MurahariKolli**, Satyanarayana Kosaraju International Journal of Interactive Design and Manufacturing, Oct 2022, ISSN: 1955-2513, <https://doi.org/10.1007/s12008-022-01045-2>.
16. Optimization of Process Parameters for Preparation of Lanthanum Hexa-Aluminate Powders Using Combinatorial Approach of Taguchi-GRA and ACO Methods Kode Srividya, **Seelam Pichi Reddy**, Kurra Hari Prasad, Naga Sai Rama Krishna Thati, KilariSnehita, Unnam Sai Pranay, Naga Venkata Sairam Yellapragada, Annales de Chimie



- Science des Matériaux, Vol. 47, No. 1, February, 2023, pp. 43-50. ISSN: 0151-9107.  
<https://iieta.org/journals/acsm/paper/10.18280/acsm.470106>

17. Prediction of recital characteristics of a ci diesel engine operated by bio-fuel extracts from cotton seed oil, linseed oil and mahua seed oil using ANN method, Srinivasa Reddy Kunduru, Hanumantha Rao Yarrapathruni Venkata, **Dhanaraju Vallapudi**, Narmatha Deenadayalan, Arul Raj Kumaravel, Journal of Thermal Engineering, Vol. 9, No. 2, 1-15, March 2023, ISSN: 2148-7847. <https://jten.yildiz.edu.tr/article/653>
18. Application of Taguchi – PCA/GRA Method to Optimize the Wear Behaviour of Polyester / Carbon Fibre Composites, Naga Venkata Sai Ram Yellapragada, Venkata Sai Kumar Madala, Sameer Kumar Devarakonda, Raqheeb Sadiq Mahaboob Ali Shaik, **Nageswara Rao Annamdasu**, Kondala Rao Dasari, Hasheer Shaik Mohammad, Revue des Composites et des Matériaux Avancés-Journal of Composite and Advanced Materials, Vol. 33, No. 2, April, 2023, pp. 65-73, 1169-7954 / 1958-5799 (May 2023), <https://iieta.org/journals/rcma/paper/10.18280/rcma.330201>
19. Effect of Graphite on Mechanical and Tribological Properties of Al6061/SiC Hybrid Composites, Mastan Rao Papabathina; **Siva Sankara Babu Chinka**; Nageswara Rao Putta; Murkonda Vijaya; Dhoria, Sneha, Annales de Chimie - Science des Matériaux, Vol 47, issue 3, pp: 125-132, ISSN: 0151-9107, <https://doi.org/10.18280/acsm.470301>

#### **Freshmen Engineering Department (FED): 01**

20. Carcinogenic Chromium (VI) Sensing Using Transducing Characteristics of Fiber Bragg Grating and Physical Swelling of Hydrogel, B. M. Pratima, **P. V. N. Kishore**, J. Ashok, M. Satyanarayana, P. Krishna Reddy, N. Rajeswara Rao, D. Vijaya Lakshmi, Sensing and Imaging, 23(27), July-2022, pp:1-16, 1557-2064.

## **ii. Papers Published in Scopus Journals: 22**

AI&DS: 1 ASE: 0 CE: 1 CSE: 3 ECE: 4 EEE: 3 IT: 2 ME: 2 MBA: 1 FED: 5 Total :22

### **Department of AI&DS: 01**

1. **A review based Investigation of Exploratory analysis in AI and Machine learning for a variety of Applications.”** Sirisha. J Sowjanya Vuddanti , J.V.N. Ramesh International Journal on Recent and Innovation Trends in Computing and Communication Page No.182-185 Volume 10 Issue.2 Dec-22 <https://doi.org/10.17762/ijritcc.v10i2s.5926>

### **Department of Civil Engineering (CE): 01**

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### **Department of Computer Science Engineering (CSE): 03**

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