

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING (Autonomous)

L.B.Reddy Nagar, Mylavaram – 521 230, Andhra Pradesh, INDIA.

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi.

Accredited by NAAC, NBA Tier-1 for CSE, IT, ECE, EEE & ME and “CPE” status by UGC.

Research & Development Cell

Details of R & D Accomplishments

Dept.: FED

A.Y.: 2023-24.

1. No. of SCI/SCIE publications : 07
2. No. of ESCI publications : 02
3. No. of Scopus Publications : 04
4. No. of Papers in UGC/OA journals : 02
5. No. Papers in Conf. Proc. : 01 National: 00 International: 01
(IEEE, Springer, Elsevier, Science Direct, Taylor & Francis etc)
6. No. of Patents : 01 Granted: 0 Published: 01
7. No. of Books/Chapters Published : 01
8. No. of Sponsored Research Works : 00 Projects: 0 Other Grants: 0
9. No. of Scholars awarded for Ph.D. : 00
(Under supervision of our faculty)
10. No. of Faculty awarded Ph.D. : 03

Dept.	SCI	ESCI	Scopus-J	Scopus-C	Total	UGC/OA	Books	Chapters	Patents
FED	07	02	04	01	14	02	01	00	01

Details of SCI/SCIE Publications (07)

1. “Ascendancy of Cr₂O₃ on morphology, spectroscopic and dielectric properties of GeO₂–Li₂O–P₂O₅–MgO glasses”, N. Sreeram, **S. Yuseb**, A. Ramesh babu, M. Venkateswarlu, *Materials Chemistry and Physics*, 304 (2023) 127889, 1st August 2023, pp.1-10, ISSN / eISSN: 0254-0584 / 1879-3312, **(Q1 Journal, Impact factor – 4.6)**

Link: <https://doi.org/10.1016/j.envres.2024.119163>

<https://www.sciencedirect.com/journal/materials-chemistry-and-physics/vol/304/suppl/C>

<https://www.sciencedirect.com/science/article/abs/pii/S0254058423005977>

<https://www.scopus.com/authid/detail.uri?authorId=37116315900>

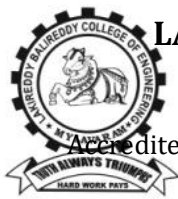
2. “Optimal Selection Role of Chelating Agents in the Synthesis of YFeO₃ Nano Materials Prepared via Sol – gel Technique”, Bittu Sing, G. Rajeswari, **Y.P.C.S.Anil Kumar**, Ajay Kumar. P, S. Gangadhar, Bhuvan Chandra, *ECS Journal of Solid State Science and Technology*, Vol. 12, No.9, 14th Septemebr 2023, pp. 1- 8, ISSN / eISSN:2162- 8769/ 2162-8777. **(Q3 Journal, Impact factor – 2.2)**

Links :

DOI 10.1149/2162-8777/acf4bd

<https://iopscience.iop.org/article/10.1149/2162-8777/acf4bd>

<https://www.scopus.com/authid/detail.uri?authorId=59140854200>



3. “Comprehensive Structural Analysis Identifies the Relationships Between the Electrical Characteristics of Environmentally Friendly NBTMn-BAl-NaNb Ceramics”, G. V. Vijaya Bhaskara Rao, P. Sobhanachalam, **Vijaya Dasaradha Sani**, Balakrishna Avula, N. Girdhar Babu, Kumara Raja Kandula, Cilaveni Goutham, A. Ashok, Anees A. Ansari, T. Sambasiva Rao, S. Gangadhara, A. Chitti Babu, *ECS Journal of Solid State Science and Technology*, Vol. 13, No.1, pp. 1- 7, 17th January, 2024, ISSN / eISSN: 2162-8769 / 2162-8777. (**Q3 Journal, Impact factor- 2.07**)

Links:

<https://iopscience.iop.org/article/10.1149/2162-8777/ad1c8f/meta>

<https://iopscience.iop.org/issue/2162-8777/13/1>

<https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=58414135300>

4. “Enhanced magnetic properties of 3Gd³⁺-doped NiMgCu nano ferrites”, V. S. Bhagvan Netheti, D. Jagadeeswara Rao , **N. Aruna** , Siriki Srinivasarao , and Ramakrishna, *Journal of material science: Materials in Electronics*, Vol. 35, No.5, Article No. 332, pp. 1-10, 15th February 2024, ISSN / eISSN: 0957-4522 / 1573-482X. (**Q2 Journal, Impact factor- 2.8**)

Links :

<https://doi.org/10.1007/s10854-024-12121-6>

<https://link.springer.com/journal/10854/volumes-and-issues/35-5>

<https://www.scopus.com/authid/detail.uri?authorId=57225128675>

5. “Acceptance Sampling Plans based on percentiles of Exponentiated Inverse Kumaraswamy Distribution”, **M.Rami Reddy**, B. Srinivasa Rao, K. Rosaiah, *Indian Journal of Science and Technology*, Vol.17, No.16, pp. 1681-1689, 16th April, 2024, ISSN / eISSN: 0974-6846 / 0974-5645

Links:

[DOI: 10.17485/IJST/v17i16.222](https://doi.org/10.17485/IJST/v17i16.222)

<https://indjst.org/archives?volume=17&issue=16#archives>

Additional Web of Science Indices - Zoological Record

6. “Effect of KNN substitution on the structural, electrical, and piezo characteristics of lead free 0.94NBT–0.06SrTiO₃ ceramics”, N. Srinivasa Rao, B. Srikanth, T. Anjaneyulu, P. Mohan Babu, M. Bhaskaraiah, **K.N.V. Lakshmi**, K. Mohan Babu, *Journal of Materials Science: Materials in Electronics*, Vol.35, No.844, pp. 1-8, 26th April, 2024, ISSN / eISSN: 0957-4522 / 1573-482X. (**Q2 Journal, Impact factor- 2.8**)

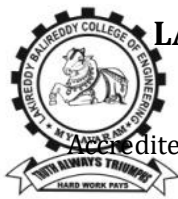
Links:

<https://doi.org/10.1007/s10854-024-12611-7>

<https://link.springer.com/article/10.1007/s10854-024-12611-7>

Scopus Link: <https://www.scopus.com/authid/detail.uri?authorId=59002120700>

7. “Efficiency and mechanistic insights of photocatalytic decomposition of tetracycline and rhodamine B utilizing Z-scheme g-C₃N₄/SnWO₄ heterostructures under visible light



irradiation”, Ramu Boddepalli, Thirumala Rao Gurugubelli, Pammi S.V. N, N.V.S. Bhagavan, **S. Yuseb**, Mohan Rao Tamtame, Ravindranadh Koutavarapu, P.L. Saranya, *Environmental Research*, Vol.254, No.1, pp.1-12, 16th May 2024, ISSN / eISSN: 0013-9351 / 1096-0953. **(Q1 Journal, Impact factor – 8.3)**

Links:

<https://doi.org/10.1016/j.envres.2024.119163>

<https://www.sciencedirect.com/science/article/abs/pii/S0013935124010685?via%3Dihub>

<https://www.sciencedirect.com/science/article/abs/pii/S0013935124010685>

<https://www.scopus.com/authid/detail.uri?authorId=37116315900>

Details of ESCI Publications (02)

1. “Magneto – Hydrodynamic Effects on Heat and Mass Transfer in Hybrid Nanofluid Flow over A Stretched Sheet with Cattaneo – Christov Model”, D. Ramesh, M. Mohan Babu, G. Balaji Prakash, **K. Jhansi Rani**, J.Peter Praveen, G.V.R. Reddy, *CFD Letters An International Journal*, Vol.16, No.2, pp. 105-117, 12th December, 2023, eISSN: 2180-1363. **(Q3 Journal)**

Links:

<https://doi.org/10.37934/cfdl.16.2.105117>

https://semarakilmu.com.my/journals/index.php/CFD_Letters/issue/view/212

<https://www.scopus.com/authid/detail.uri?authorId=57118120000>

2. “MHD Casson Fluid Flow in Stagnation-Point over an Inclined Porous Surface”, R. Leelavathi, V. Seethamahalakshmi, **D. Vijaya Kumar**, T.S. Rao, G. Venkata Ramana Reddy, Abayomi Samuel Oke, *CFD Letters An International Journal*, Vol. 16, No, 4, pp. 69-84, 01st January, 2024. eISSN: 2180-1363. **(Q3 Journal)**

Links:

<https://doi.org/10.37934/cfdl.16.4.6984>

https://semarakilmu.com.my/journals/index.php/CFD_Letters/issue/view/280

<https://www.scopus.com/authid/detail.uri?authorId=58830400400>

Details of Scopus Publications(05)

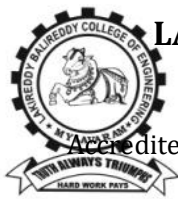
1. “Hydrothermal synthesis and micro-structural, optical and luminescence properties of core-shell Hetero structure Cds/Zn₃(PO₄)₂ Nanocomposite”, G Sridevi, S K Khaja Muswareen, S Suresh, **P. Vijaya Sirisha**, Ch Rajya Lakshmi, V Jaya Lakshmi, *Asian Journal of Chemistry*, 38(8), 31st July 2023, pp. 1-7, ISSN / eISSN: 0970-7077/ 0975-427X. **(Q4 Journal)**

Links:

<https://doi.org/10.14233/ajchem.2023.28026>

<https://asianpubs.org/index.php/ajchem/issue/view/317>

<https://www.scopus.com/authid/detail.uri?authorId=58545403400&origin=recordpage>



2. “An attribute control chart for time truncated life tests using Exponentiated inverse Kumaraswamy distribution”, B. Srinivasa Rao, **M. Rami Reddy**, K. Rosaiah, *Reliability: Theory & Applications*, 74(3), 1st September 2023, pp. 206-217, eISSN: 1932-2321. **(Q3 Journal)**

Links:

[DOI: https://doi.org/10.24412/1932-2321-2023-374-206-217](https://doi.org/10.24412/1932-2321-2023-374-206-217)

https://gnedenko.net/Journal/2023_3.htm

<https://www.scopus.com/authid/detail.uri?authorId=58634541100>

3. “Biosynthesis of Zinc Oxide Nanoparticles from *Schrebera swietenoides* Roxb. Leaves Extract and their Potent Photocatalytic Activities”, S. Lakshmi Tulasi, P. Sumalatha, **Shaheda Niloufer**, P.Pavani, N.Usha Rani, *Asian Journal of Chemistry*, Vol. 36, No. 1, pp. 44-48, 31st December 2023, ISSN / eISSN: 0970-7077 / 0975-427X. **(Q4 Journal, Impact factor – 0.16)**

Links:

<https://doi.org/10.14233/ajchem.2024.30615>

https://asianpubs.org/index.php/ajchem/article/view/36_1_6

<https://www.scopus.com/authid/detail.uri?authorId=58022565600>

4. “Influence of Thermophoresis and Brownian Motion on MHD Hybrid Nano fluid MgO - Ag/H₂O Flow along Moving Slim Needle”, Ch. Maheswari, R. Mohana Ramana, G. Balaji Prakash, D. Ramesh, **D. Vijay Kumar**, *Journal of Advanced Research in Applied Sciences and Engineering Technology*, Vol.36, No.2, pp. 67-90, 30th December 2023, eISSN: 2462-1943. **(Q2 Journal)**

Links:

<https://doi.org/10.37934/araset.36.2.6790>

<https://www.scopus.com/feedback/author/reviewAuthorProfile.uri?authorIds=59968498400>

Details of papers presented and published in Conf. Proc.:(01)

(IEEE, Springer, Elsevier, Science Direct, Taylor & Francis etc)

1. “Automatic Parking System Using Deep Learning and Internet of Things”, S. Jyothi, **M.Rami Reddy**, Ch. Siva Vara Prasad, N. Rishitha, T. Syam Satya Vara Prasad, Shaik Irfan Ali Khan, *International Conference on Emerging Systems and Intelligent Computing (ESIC)*, **IEEE Explore Journal**, 2024, pp. 666-872, April 2024, E-ISBN no.:979-8-3503-4985-6.

Additional Web of Science Indices - Zoological Record

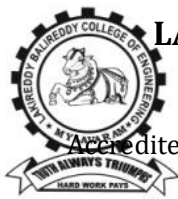
Links:

[DOI: 10.1109/ESIC60604.2024.10481628](https://doi.org/10.1109/ESIC60604.2024.10481628)

<https://ieeexplore.ieee.org/xpl/conhome/10481518/proceeding?isnumber=10481530&sortType=vol-only-seq&refinementName=Author&refinements=Author:Saddi%20Jyothi>

<https://www.scopus.com/authid/detail.uri?authorId=58634541100>

Details of Open Access Publications (01)



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Research & Development Cell

1. “Manjula Padmanabhan’s writing: a ‘Machete Strike’ at the Realities of Indian society”, R.Padma, *Journal of Namibian Studies*, Vol.37, No.1, pp. 1094-1102, 16th November 2023, eISSN: 2197-5523.

Link : <https://namibian-studies.com/index.php/JNS/article/view/6337>

DOI: <https://doi.org/10.59670/1pkfs366>

2. “The Role Of English As A Global Language In Shaping Modern Educational Systems”, B.Neelambaram, Prasad Gowda T S, M. Shyam Sundar, **D. Chaitanya**, A. Suraiya, Riyaz Mohammad, R. Vijayalakshmi, *Educational Administration: Theory and Practice*, Vol.30, No.6, pp. 1437-1442, 5th June 2024, ISSN / eISSN: 1300-4832 / 2148-2403.

Links:

<https://doi.org/10.53555/kuey.v30i6.5516>

<https://kuey.net/index.php/kuey/article/view/5438>

Details of Patents

Total No. of Patents :0

Granted: NIL

Published: 01

S. No	Patent Title	Applicants / Inventors	Patent No.	Published Date
1.	Enhancing Marketing Strategies Through AI Fish Swarm Optimization Algorithm	Dr. Timmeswara Sarma Nori	202441036572 A	24/05/2024

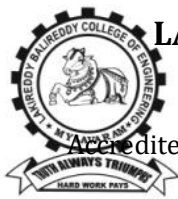
Details of Books/Chapters Published

S. No.	Authors	Title of the book	Publisher	Month & Year of Publication	ISBN
1.	Dr. K. Gangadhar, Dr. K. Bhanu Lakshmi	Nano fluid flow with Bio convection and its Applications	LAMBERT Academic Publishing	August, 2023	978-620-6-76743-5

Details of Sponsored Research Works

Sponsored Research Projects

S. No.	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Total Amount Sanctioned in Rs& Date, Duration	Amount received in Rs.& Date	Status
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Research & Development Cell

		Nil				
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Other Grants (MODROBS, STTP, FDPs, Travel Grants, Workshop/Conference Grants etc)

S.No .	Faculty with Designation	Title of the Proposal	Funding Agency-Scheme	Total Amount Sanctioned in Rs& Date, Duration	Amount received in Rs.& Date	Status
		Nil				

Details of Scholars awarded Ph.D.

S.No .	Details of Faculty	Acted as	Scholar Name with Regd. Number & Date of Joining	Awarding University	Date of Awarding
1.		Nil			

Details of Faculty Secured Ph.D.

S.No .	Faculty with Designation	Date of Registration	Date of Awarding Ph.D.	Name of the University
1.	Dr.Y.P.C.S. Anil Kumar, Sr. Asst. Professor	23-03-2009	10-07-2023	Rayalaseema University
2.	Dr.D. Vijay Kumar Sr. Asst. Professor	23-03-2009	10-07-2023	Rayalaseema University
3.	Dr. N.T. Sarma, Sr. Asst. Professor	23-03-2009	09-02-2024	Rayalaseema University