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Faculty Publications

Department of Research and Development (R&D)

Academic Year 2020-21

Departments	No of Publications					Book Chapter	Patents
	SCI/ESCI/ SCIE	Scopus		Non-Scopus			
		Journal	Conference	Journal	Conference		
AME	3	1	1				
CIVIL			3		1	1	
CSE	1		13				1
ECE	1	5	11	1		3	1
EEE	1	1		5	2		1
H&S	7	4		2			
IT			3				1
MECH	4	2	30	2	2		
MBA							
Total	17	13	61 (41 Published, 20 Accepted)	11	5	3	4

SCI/ESCI

1. Raju, J.S.N., Depoures, M.V., Shariff, J.A.B.I.H.U.L.L.A. and Chakravarthy, S.U.D.H.I.R., 2021. **Characterization of Natural Cellulosic Fibers from Stem of SymphiremaInvolucratum Plant.** *Journal of Natural Fibers*, pp.1-16.
2. Katragadda, Sudhir Chakravarthy, Madhu Sundaram, and Kumaran Palani. "Characterization of Optimally Alkali-treated Natural Cellulosic Fiber Extracted from the Stem of Cissus Vitiginea Plant." *Journal of Natural Fibers* (2021): 1-14.
3. Chakravarthy, Sudhir, S. Madhu, Juvvi Siva Naga Raju, and Jabihulla Shariff Md. "Characterization of novel natural cellulosic fiber extracted from the stem of Cissus vitiginea plant." *International Journal of Biological Macromolecules* 161 (2020): 1358-1370.
4. Kumar, A.R., Vinoth, R. and Kasinathan, P., 2021. **Opposition Based Artificial Flora Algorithm for Load Balancing in LTE Network.** *Wireless Personal Communications*, 118(1), pp.141-159.

5. Sk.subhani , ramachaithanyatanguturi ,V.S.Ghali, “**Chirp Z transform based barker coded thermal wave imaging for the characterization of fiber reinforced polymers**” Russian Jour. NDT.
6. D. Prasad, G.V. Siva Krishna Rao., **A REVIEW ON POSITION ESTIMATION OF SWITCHED RELUCTANCE MOTOR FOR AUTOMOTIVE APPLICATIONS**, Turkish Journal of Physiotherapy and Rehabilitation, 32(3), pp: 3715-3723.
7. Prasad, Sana Siva, Bandameeda Ramesh Naidu, Marlia M. Hanafiah, Jangam Lakshmidivi, Ravi Kumar Marella, Sivarama Krishna Lakkaboyana, and Katta Venkateswarlu. "**Porphyrim N-Pincer Pd (II)-Complexes in Water: A Base-Free and Nature-Inspired Protocol for the Oxidative Self-Coupling of Potassium Aryltrifluoroborates in Open-Air.**" *Molecules* 26, no. 17 (2021): 5390.
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9. Lakkaboyana, S. K., Soontarapa, K., Marella, R. K., & Kannan, K., (2021). “**Preparation of novel chitosan polymeric nanocomposite as an efficient material for the removal of Acid Blue 25 from aqueous environment**”., *International Journal of Biological Macromolecules*, vol.168, pp:760-768.
10. Marella, R. K., Madduluri, V. R., Lakkaboyana, S. K., Hanafiah, M. M., &Yaaratha, S. (2020).,“**Hydrogen-free hydrogenation of nitrobenzene via direct coupling with cyclohexanol dehydrogenation over ordered mesoporous MgO/SBA-15 supported Cu nanoparticles**”. *RSC Advances*, vol.10, no.64, pp:38755-38766.
11. Rao, V. H., Prasad, P. S., & Babu, K. S. (2020).,“**Visible luminescence characteristics of Pr³⁺ ions in TeO₂-Sb₂O₃-WO₃ glasses**”., *Optical Materials*, 101, 109740.
12. Ravi Kumar Marella et al., “**Highly active biomorphic MgO/C supported Cu NPs direct catalytic coupling of 1,4-butanediol dehydrogenation and acetophenone hydrogenation using in-situ liberated H₂**”, *Molecular Catalysis*, Volume 507, 2021, 111561.
13. Lakkaboyana, Sivarama Krishna, KhantongSoontarapa, Nabel Kalel Asmel, Vinay Kumar, Ravi Kumar Marella, Ali Yuzir, and Wan Zuhairi Wan Yaacob Zuhairi. "**Synthesis and characterization of Cu (OH) 2-NWs-PVA-AC Nano-composite and its use as an efficient adsorbent for removal of methylene blue.**" *Scientific reports* 11, no. 1 (2021): 1-17.
14. Shariff, M. D., S. Madhu, and Kumaran Palani. "**Suitability Evaluation of Mercerized Albizia Julibrissin Fiber as a Potential Reinforcement for Bio-composites.**" *Journal of Natural Fibers* (2021): 1-16.

15. Anil Babu Sankuru, Hareesh Sunkara, Subash Sethuraman, KondaiiahGudimetla, B. Ravisankar, S.P.Kumaresh Babu "**Effect of processing route on microstructure, mechanical and dry sliding wear behavior of commercially pure magnesium processed by ECAP with back pressure**" Transactions of the Indian Institute of Metals.
16. Raju, Juvvi Siva Naga, Melvin Victor Depoures, and P. Kumaran. "**Comprehensive characterization of raw and alkali (NaOH) treated natural fibers from Symphiremainvolucratum stem.**" International Journal of Biological Macromolecules (2021).
17. Md, Jabihulla Shariff, S. Madhu, Sudhir Chakravarthy K, and Juvvi Siva Naga Raju. "**Characterization of natural cellulose fibers from the stem of Albizia Julibrissin as reinforcement for polymer composites.**" *Journal of Natural Fibers* (2020): 1-14.

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Journal

1. S Kondal Rao., Sudhir Chakravarthy K., V. S. P. K. S. R. Juvvi Siva Naga Raju, Jabihulla Shariff Md, "**Finite Element Analysis of Pressure Vessel Made of Different Materials Subjected To Mechanical and Thermal Loads**", Design Engineering, pp. 6943- 6954, Aug. 2021.
2. Babu N.D.B., Rao E.V.K., Murthy K.S.N., "**Minimum Cost, Minimum Interference and Minimum Load (M3) Gateway Deployment Algorithm for Multi-radio Multi-channel Wireless Mesh Networks**" *International Journal of Engineering Research and Technology.*, vol.13, no.12, 2020.
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4. Bhushana Babu N.D., Krishna Rao E.V., Murthy K.S.N., "**Inter-gateway handoff management using ant colony optimization (ACO) for wireless mesh networks**". *International Journal of Engineering Trends and Technology*, vol.68, No.11, pp:63-71, 2020.
5. G.R.K. Prasad, L. Sreeharsha, D Arthi, M.Siva Kumar, P. Sivakrishna, C. Venkataramanan ,"**Design and Simulation of MEMS Force Sensor for Detection of Human Inhale and Exhale Rate,**" Design Engineering, 1(5), pp.338-346,2021.
6. Gopinath, S., N. A. Natraj, D. Bhanu, and N. Sureshkumar. "**Reliability Integrated Intrusion Detection System for Isolating Black Hole Attack in MANET.**" (2020).
7. Balasubbareddy, M., Murthy, G. V. K., & Kumar, K. S. (2021).,"**Performance evaluation of different structures of power system stabilizers**"., *International Journal of Electrical and Computer Engineering*, vol.11, no.1, pp:114-123.

8. Sanguino, P., Reinhard Schwarz, Luis Santos, S. Alves, V. Himamaheswara Rao, J. N. Kiran, Ch Sujatha, and A. Fedorov., "**Orange Photoluminescence from hydrothermally grown ZnO nanorods and study on its defects**", *Indian Journal of Pure and Applied Physics* (IJPAP) 2021.
9. Palani, Geetha, A. Arputhalatha, Karthik Kannan, Sivarama Krishna Lakkaboyana, Marlia M. Hanafiah, Vinay Kumar, and Ravi Kumar Marella. "**Current trends in the application of nanomaterials for the removal of pollutants from industrial wastewater treatment—a review.**" *Molecules* 26, no. 9 (2021): 2799.
10. Reddy, L. Rama Mohan, P. Veera Sanjeeva Kumar, B. Hari Babu, P. Rama Krishna Reddy, and B. Nagaraja Naik. "**MHD JEFFREY FLUID FLOW PAST A VERTICAL PLATE WITH UNIFORM BOUNDARIES.**" (2021), *JP Journal of Heat and Mass Transfer*.
11. P. Brahmam, Samba A Naik, "**A molecular basis of rising in mucormycosis cases during COVID19 pandemic: analysis for host-pathogen interaction and risk factors**", *High Technology Letters* 17 (10), 2021.
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13. Savadi Venkata Sai Srikar, Ajay Kumar Revuri, Kota Venkateswarlu, M. Sreenivasan. "**Design an Artificial Neural Network Based Predictive Model for Automotive Applications**" *Design Engineering* 7 (2021): 13335-13344.

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2. Gopu, Ganesh Naidu, Swaroop Babu Mylavarpu, and S. Ankarao. "**Development of Ultra Strength Concrete.**" In *Journal of Physics: Conference Series*, vol. 2070, no. 1, p. 012173. IOP Publishing, 2021.
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6. V. Ramya., D. Anandam, Dr T R Chaitanya., **“A Health Monitoring System Using Cloud and IOT Devices.”**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
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8. M. Thriveni, M. Srinivasa Rao, S Giribabu., **“Combining the behaviour of user and relationships to Predicting the Links in Social Networks.”**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
9. K. Precy Pranutha, Sk. Heena Kaur, D. Anandam., **“A Dynamic Encryption Scheme for Moving Object protection using Network coding and DES.”**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
10. Ch. Rudra Rohith, Dr T R Chaitanya, V. Gopikrishna., **“A Prediction Model by Analyzing the user’s return behavior in Incentive Based Reply.”**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
11. S. Rama Lakshmi, D. Anandam, S. Radha Krishnan., **Attribute Based Keyword Search in Shared Multi-owner Distribution Setting.**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
12. S. Pavani, S Phani Kumar, B. Sreenivasulu., **“Recognize Pressure Based on Social Communications in Social Networks”**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
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14. N. Bhargavi. S Giribabu, G. Srinivasa Rao, **Financial cheating Detection by Analyzing Human Behaviour using FraudDetector.**, *INTERNATIONAL*

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15. V. Vijaya Durga, B. Sreenivasulu, S. Phani Kumar., “**An Efficient and Secure Fingerprint Identification Technique by utilizing Cloud Computing**”, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
16. M. Sushmitha, V. Sriharsha, D. Anandam, “**A Different types of Climate Classification Method to develop Machine Vision in Bad Climate Situations.**”, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
17. A. Suresh, D. Anandam, P. V. Subba Reddy, “**Frequent Itemsets mining based on different levels of Privacy.**”, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
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22. D. Anil Kumar, **Human Action Recognition from Depth Sensor via Skeletal Joint and Shape Trajectories with a Time-Series Graph Matching**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
23. HARIKA SADHINENI, S. JOSAPH, N. VAISHNAVI, **DESIGN AND ANALYSIS OF CMOS BASED MULTIPLIER USING LFSR**, *INTERNATIONAL CONFERENCE ON*

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(Accepted)

24. CHUNDI SAI SRINIVAS, M. S. MANOHAR, U. ANUSHA RANI, **HIGH EFFICIENT ACCURATE DL-PO LOGIC MULTIPLIER DESIGN FOR LOW POWER APPLICATIONS**, *INTERNATIONAL CONFERENCE ON SIGNAL PROCESSING & COMMUNICATION ENGINEERING SYSTEMS (SPACES-2021)*. **(Accepted)**
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32. Pakanati C. Sekhar Reddy, Jabihulla Shariff, M. Sreenivasan, E.R. Sivakumar "Analysis of automotive car chair" *Materials Today Proceedings*, Available online 6 February 2021.
33. T Naresh Kumar, K Muralidharan, Raghuram Pradhan, Ramya Suresh "Experimental investigation on equally treated banana/sisal fibers based hybrid composite" *AIP Conference Proceedings* 2283, 020083 (2020).
34. Raghuram Pradhan, K Muralidharan, AK Saravanan, M Raajasekar "Experimental investigation of tensile strength and tensile modulus of fiber reinforced polyester by using chicken feather fiber" *AIP Conference Proceedings* 2283, 020077 (2020).

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Journal

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12. Appala Anil, K. Venkateswarlu, M. Srinivasan, Siva Kumar "**Solving Job Shop Scheduling Problem with the Aid of Evolution of Cub to Predator (ECP)**" *International Journal of Advanced Research in Engineering and Technology (IJARET)*, Volume 11, Issue 11, pp. 392-400 (2020).

Conference

1. K. Ashok, K. Jaya Rao, K. Jayakesh, B. Raghava Maheedhar, "**Review on Index and Strength Properties of Stabilized Soils**", First national conference on Sustainable innovation Trends in civil engineering.
2. K. SowjanKumar,NRaghunadh, GVK Murthy, D Prasad, G Kotireddy "**A novel maximum power point tracking (MPPT) algorithm for wind energy**" was presented in the Virtual International Conference on Recent Trends in Power Systems and Power Electronics– 2K21 (NEC-VICPSPE-2K21) held at Department of EEE, Narasaraopeta Engineering College, Narasaraopet during 28th & 29th July, 2021.
3. G Kotireddy, D Prasad, G V K Murthy, N Raghunadh, K. Sowjan Kumar "**Mitigation of harmonics in grid-connected to microgrids by using fuzzy logic method**" was presented in the Virtual International Conference on Recent Trends in Power Systems and Power Electronics– 2K21 (NEC-VICPSPE-2K21) held at Department of EEE, Narasaraopeta Engineering College, Narasaraopet during 28th & 29th July, 2021.
4. G. Sai Krishnan, Shanmugasundar, Raghuram Pradhan, Ganesh Babu Loganathan "**Investigation on Mechanical Properties of Chemically Treated Banana and Areca Fiber Reinforced Polypropylene Composites**" *Advances in Lightweight Materials and Structures*, pp 273-280 (2020).

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1. Pasha, M.M., Suresh, B., Babu, K.R., Subhani, S. and Subbarao, G.V., 2021. **Barker coded modulated thermal wave imaging for defect detection of glass fiber reinforced plastic**. Print ISBN: 978-93-90888-72-6, eBook ISBN: 978-93-90888-73-3
2. Dr.M Rajasekhar., 2021. **Polyphase Sequences with Good Correlation Properties and Merit Factor based on Cyclic Algorithm Approach**, B P International.
3. Dr. J. V. Anand., 2021. **Supervised learning approaches for underwater scalar sensory data modelling with diurnal changes**. **(Accepted)**

Patents

S. No	Name of the Faculty	Department	Title	Patent Number	Term of Patent	Date of Issued	Patent From
1	Dr.A.Ranjithkumar	CSE	IOT BASED GARBAGE PAIL MONITORING SYSTEM			18/12/2020	
2	Dr.J.V Anand	ECE	ONE BIT COMPRESSION SENSING MECHANISM FOR LOW RATE WIRELESSSENSOR NETWORKS	2020103755		2021	
3	Dr. G V K Murthy	EEE	OPTIMAL DESIGN OF MODULAR DC-DC CONVERTER COMBINED WITH SERIES RESONANCE CONVERTERS FOR ENERGY INTEGRATION	2020103761	29 Nov 2020 to 28-Nov 2028 (8 YEAR S)	17 th March 2021	Australian Govt.
4	Mulaka Madhava Reddy	IT	THE SMART LOCKING SYSTEM FOR VEHICLES USING IOT AND CLOUD TECHNIQUE.	202111025105 A		18/06/2021	INDIA