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Department of Electrical and Electronics Engineering

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No. of Journal Publications		No. of Conference Proceedings	Books Chapter	Text Books
SCI	SCOPUS	SCOPUS	SCOPUS	National/International Publishers
2	3	30	2	

SCI Journal Papers:

[1]. Kosaraju, Satyanarayana, **Phaneendra Babu Bobba**, and Surender Reddy Salkuti. 2023. "Optimization and Microstructural Studies on the Machining of Inconel 600 in WEDM Using Untreated and Cryogenically Treated Zinc Electrodes" *Materials* 16, no. 8: 3181. https://doi.org/10.3390/ma16083181

[2]. Manisha Kumari, Tavanam Venkata Rao, S. Arun Jayakar, D. Srinivas, **Dola Gobinda Padhan**, A. Kishore Reddy, P. Rahul Reddy, Amanuel Diriba Tura, "A Beam Steering Dielectric Resonator Antenna Designed Using Rogers RO4003C Material for S-Band Applications", *Advances in Materials Science and Engineering*, vol. 2022, Article ID 7783967, 10 pages, 2022. https://doi.org/10.1155/2022/7783967

SCOPUS Journal Papers:

[1]. Tummala Suresh Kumar and T Indira Priyadarshini, *"Morphological Operations and Histogram Analysis of SEM Images using Python", Indian Journal of Engineering & Materials Sciences Vol. 29, December 2022, pp. 794-798 DOI: 10.56042/ijems.v29i6.70310*

[2]. G. Kavya and Dr. J Sridevi, "Performance Analysis of Micro Inverter and Central Inverter", Journal of Optoelectronics Laser, Volume 42 Issue 1, 2023

[3]. Vinjamuri Usha Rani and Loveswara Rao Burthi, "Power Quality Enhancement of Smart Home Energy Management System in Smart Grid Using MAORDF-CapSA Technique", Ecological Engineering & Environmental Technology 2022, 23(5), 1–19 https://doi.org/10.12912/27197050/151627

SCOPUS Conference Proceedings:

[1]. Vinay. K. Awaar, M. N. S. Rani, D. K. Kirthi, C. Sindhu, P. Samanvita and P. S. Keerthana, "Implementation of Digital Filters to Improve Dynamic Response of A Single Phase PWM Rectifier," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9908997.

[2]. Vinay. K. Awaar, R. Simhadri and P. Jugge, "Comparative Study And Experimentation of Speed Control Methods of BLDC Motor using DRV8312," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909121.

[3]. V. K. Awaar, N. Jampally, H. Gali and R. Simhadri, "Real-Time BLDC Motor Control and Characterization Using TMS320F28069M with CCS and GUI," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9908662.

[4]. V. K. Awaar, V. Chityala, P. Jugge and S. Tara Kalyani, "Intensifying The Performance of Dynamic Voltage Restorer Using Optimized PI Controller Based Harris Hawks Optimization (HHO) Algorithm," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909154.

[5]. V. K. Awaar, M. N. S. Rani, G. S. Rani, P. Naragani, S. Talluri and S. S. Vakkalanka, "Design and Development of a Three Phase Induction Motor Drive using NI-myRIO," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9908900.

[6]. V. K. Awaar, N. Anjali, M. N. S. Rani, S. Bannuru, S. Tangallapally and A. Siri, "Parameter Estimation and Speed Control of FOC Based PMSM Drive Using F28379D," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909177.

[7]. A. B. Krishna, M. S. S. Sai, V. K. Kamboj, S. Saxena, M. Veerasamy and D. Rao, "AGC of Deregulated Electric Network using Slime Mould Optimization Search Strategy," *2022 IEEE International Conference on Current Development in Engineering and Technology (CCET)*, Bhopal, India, 2022, pp. 1-5, doi: 10.1109/CCET56606.2022.10080461.

[8]. M. Prashanth, D. Raveendhra, A. Giridhar and B. Narasimha Raju, "Switched Reluctance Machine Drive Analysis with Fault-Tolerant Power Converter," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909332.

[9]. G. Jayaraju, D. Rao and I. Kasireddy, "ANN Controller based Single Phase Cascade Thirty-One Level Grid-Tied Inverter for Power Quality Improvement," *2022 IEEE International Conference on Current Development in Engineering and Technology (CCET)*, Bhopal, India, 2022, pp. 1-8, doi: 10.1109/CCET56606.2022.10080105.

[10]. D. G. Padhan, D. Raveendhra, S. Sahoo and V. Mahesh, "Comparative Analysis between Fuzzy and PR controller in Single-Phase H bridge Inverters by Power Decoupling Strategy," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-4, doi: 10.1109/SeFeT55524.2022.9909082.

[11]. D. G. Kumar, A. Ganesh, D. S. N. M. Rao, N. V. Sireesha, R. K. Gatla and S. Saravanan, "Grid Integration of Photovoltaic System with a Single-Phase Reduced Switch Multilevel Inverter Topology," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909189.

[12]. M. U. M. Rao, D. S. N. M. Rao and C. S. R. Reddy, "Protection of microgrids using Resistive Type Superconducting Fault Current limiter(RSFCL)," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9909066.

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[14]. S. Kalathi, D. Raveendhra and B. Narasimha Raju, "Efficient Single-Phase Grid Connected Transformer-less Inverter with Active and Reactive Power Control," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-7, doi: 10.1109/SeFeT55524.2022.9909040.

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[18]. M. S. H. Reddy, S. A. V. Kuppa, A. Sanjana, J. Sridevi and V. U. Rani, "Design and Development of Front fork for Electric Tricycle," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909276.

[19]. S. A. V. Kuppa, M. S. H. Reddy, A. Sanjana, J. Sridevi and V. U. Rani, "Design and Development of Smart WheelChair," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9908983.

[20]. Rachana B, Sri Devi J, Usha Rani V and D. Raveendhra, "Performance and analysis of three phase SAPF under different control algorithms for power quality problems," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-8, doi: 10.1109/SeFeT55524.2022.9909033.

[21]. S. K. Tummala, "IGBT based Multilevel Converter for Static VAr Compensator," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9908788.

[22]. M. Venkateswarlu and B. Pakkiraiah, "Pv Integrated Cuk Converter For UPQC Applications With Power Quality Improvement Using Intelligent Control Techniques," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-9, doi: 10.1109/SeFeT55524.2022.9909223.

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[24]. S. Kalathi, D. Raveendhra and N. Raju Bl, "Single-Phase H6 Inverter with Hybrid Modulation Scheme for Solar PV application," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909000.

[25]. S. K. Tummala and L. Duraiswamy, "Switched Mode Power Supply: A High Efficient Low Noise Forward Converter Design Topology," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-5, doi: 10.1109/SeFeT55524.2022.9908809.

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[27]. Swaraj Reddy, Phaneendra Babu Bobba, Sai Hanuman Akund, Vinay Seshu Neelam, Aditya Jangam; Krishna Tej Chinta, Bharath Babu Ambati, "Comparative Analysis of Artificial Intelligence Techniques used in Inverter Fault Diagnosis," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9908933.

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[29]. Swaraj Reddy, Phaneendra Babu Bobba, Sai Hanuman Akundi, Vinay Seshu Neelam, Aditya Jangam, Krishna Tej Chinta., Bharath Babu Ambati, "Open circuit Fault Diagnosis using Machine Learning Classifiers," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-6, doi: 10.1109/SeFeT55524.2022.9909053.

[30]. A. Jha and P. B. Bobba, "Single Stage Single Switch Quadruple Output Power Supply for Electric Vehicle Applications," *2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT)*, Hyderabad, India, 2022, pp. 1-4, doi: 10.1109/SeFeT55524.2022.9908883.

Books Chapters (SCOPUS):

[1] *Naveenkumar Marati, Shariq Ahammed, Kathirvel Karuppazaghi, Balraj Vaithilingam, Gyan R. Biswal, Phaneendra B. Bobba, Sanjeevikumar Padmanaban, and Sharmeela Chenniappan, "*Recent Advancements in Power Electronics for Modern Power Systems-Comprehensive Review on DC-Link Capacitors Concerning Power Density Maximization in Power Converters*",* Artificial Intelligence-based Smart Power Systems, John Wiley & Sons, Inc., Hoboken, New Jersey, 2023.

[2] Satyanarayana Kosaraju , Suresh Kumar Tummala, PhaneendraBabu Bobba, Venkata Somi Reddy Janga, "Manufacturing of green waste-reinforced aluminum composites",

Text Books:

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