

## DEPARTMENT OF EEE

### RESEARCH PUBLICATIONS

A.Y:2022-23

1. **K.V.Ramana Reddy, G. Madhu Mohan, M Sharanya, S Karimulla, J Swetha:** "Comparative investigation of DG and DSTATCOM utilizing the PLI technique in a 33-bus radial distribution system for loss reduction" University of Bahrain Scientific Journals, 2023, 2210-142X, <https://journal.uob.edu.bh/handle/123456789/12?id=about>, <https://journal.uob.edu.bh/handle/123456789/5073> , Scopus
2. **M. Sharanya, A. Suresh, G. Madhu Mohan :** "An Innovative Micro-Grid Hybrid Power System Using Hydro, Wind, And Solar Photovoltaic Energy Sources In Remote Village" Semiconductor Optoelectronics , 2023, 1001-5868, <https://bdtgd.cn/>, [https://www.bdtgd.cn/vol-42\\_01.php](https://www.bdtgd.cn/vol-42_01.php) <https://bdtgd.cn/article/view/2023/514.pdf> , SCOPUS
3. **Ch. Lokeshwar Reddy, P. Satish Kumar, J V G Rama Rao & M. Sharanya:** "Performance Analysis of Switched Reluctance Motor by Using Closed Loop Current Control Technique", Jurnal Kejuruteraan, 2023, 2023, <https://www.ukm.my/jkukm/volume-3506-2023/>, [https://doi.org/10.17576/jkukm-2023-35\(6\)-12](https://doi.org/10.17576/jkukm-2023-35(6)-12), ESCI
4. **Dr. G. Madhu Mohan:** "An Innovative Micro-Grid Hybrid Power System Using Hydro, Wind, And Solar Photovoltaic Energy Sources In Remote Village" Semiconductor Optoelectronics , 2023, 1001-5868, JSE - Journal of Semiconductor Engineering (bdtgd.cn) , Journal of Semiconductor Engineering (bdtgd.cn), scopus
5. **Ravi Bukya and H. Ramesh:** "Renewable Energy System And Its Needs For Electrical Energy Storage System" , International Journal of Engineering Applied Sciences and Technology, 2023, 2455-2143, (<http://www.ijeast.com>), [www.ijeast.com](http://www.ijeast.com)) D, UGC Care
6. Mahaboob Shareef Syed, **Karimulla Peerla Shaik**, B. Venkata Prasanth & D. Karimulla Syed: "Power System Performance Enhancement with FACTS Devices" , Journal of Engineering Science and Technology Review 2022, [https://www.researchgate.net/publication/363722566\\_Power\\_System\\_Performance\\_Enhancement\\_with\\_FACTS\\_Devices](https://www.researchgate.net/publication/363722566_Power_System_Performance_Enhancement_with_FACTS_Devices), DOI: 10.25103/jestr.154.19, SCOPUS

A.Y:2021-22

1. **M. Sharanya**, Basavaraja Banakara and M. Sasikala, " : UPQC with AI Techniques for power quality improvement". *Chapter 49 –the Authors(s), under exclusive license to Springer nature Singapore Pte Ltd. 2022-A.N.R Reddy et al. (eds), Intelligent Manufacturing and Energy Sustainability, Smart Innovation , Systems and Technology.*
2. **Ramesh Nadipena<sup>1\*</sup>**, Dr. G. Jayakrishna<sup>2</sup>, Dr. P. Sujatha<sup>3</sup>, "Design and control of STATCOM fed Distributed Generation using Fuzzy Controller based Reverse voltage Technique" **Endorsed Transactions on Energy Web 11** 2021 - 05 2022 | Volume 9 | Issue 38 | e5

A.Y:2020-21

1. **M. Sharanya**, Basavaraja Banakara and M. Sasikala, "Dynamic Voltage Restorer and Hybrid Active Power Filter for Power Quality Improvement: Comparative Study" *Chapter 13* Print ISBN: 978-93-89816-98-3, eBook ISBN: 978-93-89816-99-0
2. **Ramesh Nadipena**, G.Jayakrishna, P.Sujatha, "Performance Analysis of PI Controller fed Reverse Voltage Technique based STATCOM for Power Quality Enhancement" *Journal of Green Engineering (JGE) Volume-10, Issue-10, October 2020*

A.Y:2019-20

1. **M.Sharanya**, Dr. Basavaraja Banakara, Dr. M.Sasikala, "Control Strategies for Power Quality Improvement Using Dynamic Voltage Restorer" *IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), Volume 14, Issue 6 Ser. II (Nov. – Dec. 2019), PP 34-44*
2. **Karimulla Peerla Shaik**, Dr.B.Venkata Prasanth, Dr.R.Srinivasa Rao, A novel approach to solve optimal power flow problem, *International Information and Engineering technology Association, Dec 2019, 1240-4535.*
3. **Karimulla Peerla Shaik**, Dr.B.Venkata Prasanth, Dr.R.Srinivasa Rao, Loadability Enhancement using Improved Wind Driven Optimization Algorithm, *Journal of Green Engineering (JGE), October, 2019, 2245-4586.*
4. Rakesh sairaju B.V.Sankar Ram, Design and Implementation of ZETA Converter Fed srm, Drive Based PV system for Agricultural Applications, *journal of mechanics of continuation and mathematical sciences October, 2019, 2454-7190.*

A.Y:2018-19

1. Dr. KamalaMoorthy N, A. Anandharaja, Design and Development of Bicambered Wing with Airfoil Shaped Fuselage and Environmental Monitoring Unmanned Aerial Vehicle (UAV), *Asian Journal of Information Technology, June -2018, 2249-6890.*
2. Karimulla Peerla Shaik, Shaik Mohammad Irshad, Majahar, Hussain Mohammad, Syed Karimulla, "Simulation of single phase buck boost matrix converter without commutation issues" *European Journal of Electrical Engineering – n°2/2018, 205-214*
3. Karimulla Peerla Shaik, Shaik Mohammad Irshad, Majahar, Hussain Mohammad, Syed Karimulla, "Single stage boost inverter with low switching modulation technique" *European Journal of Electrical Engineering – n° 4/2018, 413-426*

4. Karimulla Peerla Shaik, Shaik Mohammad Irshad, Majahar, Hussain Mohammad, Syed Karimulla, "A new AC – AC converter with buck and boost options" European Journal of Electrical Engineering – n°3/2018, 295-308

A.Y:2017-18

1. Karimulla Peerla Shaik, Dr.B.Venkata Prasanth, Dr.R.Srinivasa Rao, "Optimal Siting of UPFC using improved wind driven optimization algorithm", Journal of Advanced Research in Dynamical and Control Systems, 2017, Vol. 9, Sp-14, pp. 1881-1889.
2. N.Ramesh, Control And Analysis Of Power Quality Issues On Double Fed Induction Generator Based Wind Energy System, International journal of research in engineering and applied sciences, Nov-17, ISSN-2455-6300
3. N.Ramesh, Power Quality Improvement of Distribution System using HCC Based FACTS Controller, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering, May-2017, ISSN: 2278 – 8875.

**PATENTS**

Years	Name & Title of Patents	Published / Granted	Name of the Faculty
2022-23	"Unidirectional Wireless Electric Vehicle Charger With Multi-Level Pfc Boost Converter" 202341061557.	Published	Dr. M. Sharanya
2020-21	"Smart Vehicular Network With Internet Of Things Integration" 202141014894 A	Published	Dr. M. Sharanya , Mr. Karimulla P.sk, Mr. T. Venkata Prasad, Mr. K. Aravinda Swamy, M. Naresh
2021-22	"A device for generating electricity from moving objects", 20 2022 100 128	Published	Dr. M. Sharanya
2018-19	Artificial Intelligence Enabled Fertilizer Dispensation System For Better Yield Of Crops, 201841015755A	Published	N.RAMESH

## CONFERENCES

1. Panga Narasimha Reddy, Bode Venkata Kavyatheja, R. Hussain Vali, G. Madhu Mohan, B. Damodhara Reddy," Predicting the Strength Properties of LWC Using Response Surface" , International Conference on Intelligent Manufacturing and Energy Sustainability, Jun-23, International, 2190-3018, <https://link.springer.com/book/10.1007/978-981-99-6774-2>, [https://link.springer.com/chapter/10.1007/978-981-99-6774-2\\_45](https://link.springer.com/chapter/10.1007/978-981-99-6774-2_45), scopus.
2. Sydu Shabbier Ahmed , Karimulla Peerla Shaik, Syed Mahaboob Shareef , Syed Karimulla," Novel Approach for Performance Analysis of Photovoltaic and Wind Hybrid Energy System", International Conference on Materials for Energy Storage and Conservation, 03-Sep-23, International, Print ISBN 978-981-99-2869-9 Online ISBN 978-981-99-2870-5, DOI[https://doi.org/10.1007/978-981-99-2870-5\\_31](https://doi.org/10.1007/978-981-99-2870-5_31), [https://link.springer.com/chapter/10.1007/978-981-99-2870-5\\_28](https://link.springer.com/chapter/10.1007/978-981-99-2870-5_28), Scopus
3. Karimulla Peerla Shaik , Karimulla Syed , Mahaboob Shareef Syed , and Mohammed Ismail Iqbala, "15-Level MultiLevel Inverter with NLMS-based IVCIMD for THD Reduction", International Conference on Materials for Energy Storage and Conservation, 03-Sep-23, International, Print ISBN 978-981-99-2869-9 Online ISBN 978-981-99-2870-5, [https://doi.org/10.1007/978-981-99-2870-5\\_28](https://doi.org/10.1007/978-981-99-2870-5_28), [https://link.springer.com/chapter/10.1007/978-981-99-2870-5\\_28](https://link.springer.com/chapter/10.1007/978-981-99-2870-5_28), Scopus
4. Dr. M. Sharanya," UPQC with AI Techniques for Power Quality Improvement" , International Conference on Intelligent Manufacturing and Energy Sustainability, JUN2 2022, International, <https://link.springer.com/book/10.1007/978-981-16-6482-3>, [https://doi.org/10.1007/978-981-16-6482-3\\_49](https://doi.org/10.1007/978-981-16-6482-3_49), Scopus

