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Area of Specialization: Solar Photovoltaic systems, Embedded Application to Hybrid Energy systems.

Publications:

International Journals:

1. V. Saravanan K. M. Venkatachalam “Performance evaluation and load demand management of grid connected hybrid wind-solar-battery system” International Journal of Applied Power Engineering (IJAPE) Vol. 9, No. 3 (2020)
2. M. Arumugam M. Aravindan, V. Balaji, V. Saravanan “Performance evaluation of roof top solar photovoltaic systems in Tamilnadu” International Journal of Applied Power Engineering 8 (3), 265-276 (2019)
3. MA M. Aravindan, V. Balaji, V. Saravanan “Neutral point clamped quasi Z source inverter for photovoltaic systems” International Journal of Applied Power Engineering 8 (3), 277-286 (2019)
4. MA V. Saravanan, M. Aravindan, V. Balaji “Experimental Verification of Single Phase Z Source Inverter for Photovoltaic Applications” International Journal of Power Electronics and Drive System (IJPEDS) 9 (2) pp. 698 – 703 (2018)
5. IB V.Saravanan, M. Arumugam, Andrey V. Brazhnikov “Recent developments of smart grid projects in India” International Journal of Applied and Fundamental Research (2018)
6. IB V. Saravanan, M. Arumugam, Andrey V. Brazhnikov “Prospects for further development of solar-wind energy systems in Tiruvannamalai district, Tamilnadu and India in general” International Journal of Applied and Fundamental Research (2018)
7. V Saravanan, M Aravindan, V Balaji, M Arumugam “Z Source Inverter Topologies- A Survey” Bulletin of Electrical Engineering and Informatics 6 (1), 1-12 (2017)
8. V Saravanan,. Birundha “Design and Development of Z Source Cascaded Seven Level Inverter for Solar Photovoltaic System” Advanced Engineering Research and Applications (AERA) 4, 144-153 (2017)
9. V Saravanan M. Aravindhnan “Performance Analysis of Single Phase Inverter for Photovoltaic Systems “ Advanced Engineering Research and Applications (AERA) 4, 131-143 (2017)
10. AM Saravanan Vasudevan “Renewable Energy Systems: Technologies and Applications for Future Electric Grid” Journal of Electrical and Electronic Engineering 5 (1), 1-6 (2017)

11. MA V. Saravanan, M. Aravindan, V. Balaji “Extended Switched Inductor Quasi Z Source Inverter for Photovoltaic Applications” *Journal of Power Electronics & Power Systems* 7 (2), 14-23 (2017)
12. S Brazhnikov AV, Panteleev VI, Dovzhenko NN, CastanedaR.J. Saravanan V. “Basic provisions and justification of a new concept building high-performance converters of energy” *Modern problems of science and Education* (2017)
13. AV Brazhnikov, VI Panteleev, NN Dovzhenko, V Saravanan, DA Sharipov “Prospects for Application of Multiphase Asynchronous Drives in the Field of Drilling Rigs” *American Journal of Engineering Research* 6 (8), 34-40 (2017)
14. V Saravanan M. Aravindan “Performance Analysis of Single Phase Inverter for Photovoltaic Systems” *International Journal of Applied Engineering Research* 10 (36), 27770 – 27774 (2015)
15. V Saravanan R. Kavitha “Detection of Uninhabited Spectrum in Cognitive Radio Network” *International Journal of Applied Engineering Research* 10 (9), 6934 – 6938 (2015)
16. VS S. Birundha “Design and development of Z source cascaded seven level inverter for solar photovoltaic system” *International Journal of Applied Engineering Research* 10 (9), 8725 – 8728 (2015)
17. M Saravanan, V, Ramanujam, R, Arumugam “Novel improved three-level Z-source inverter” *Australian Journal of Electrical & Electronics Engineering* 12 (2), 133-140 (2015)