

PUBLICATIONS OF Dr.S.ALBERT ALEXANDER

PUBLICATIONS:

BOOKS PUBLISHED

1. Ashok Kumar L and Albert Alexander S (2020), “*Power Converters for Electrical Vehicles*”, CRC Press (Taylor and Francis)
2. Ashok Kumar L and Albert Alexander S (2020), “*Power Electronic Converters for Solar Photovoltaic Systems*”, Elsevier
3. Prakash K B, Ramani Kannan and Albert Alexander S (2020), “*Advanced Deep Learning for Engineers and Scientists*”, Springer
4. Ashok Kumar L and Albert Alexander S (2018), “*Computational Paradigm Techniques for Enhancing Electric Power Quality*”, CRC Press (Taylor and Francis), First Edition
5. Gnanvadivel J, Albert Alexander S, Senthil Kumar C and Yogalakshmi P (2017), “*Basic Electrical, Electronics and Measurement Engineering*”, Anuradha Publishers, First Edition.
6. Gnanvadivel J, Karthikeyan J & Albert Alexander S, (2009), “*Special Electrical Machines*”, Anuradha Publishers, Third Edition.

INTERNATIONAL JOURNALS

SCI/SCIE:

1. Ashok Kumar L, Albert Alexander S and Uma Maheswari Y (2020), “PERFORMANCE ENHANCEMENT OF A PHOTOVOLTAIC MODULE USING SOLAR FUNCTIONAL COATINGS”, *Journal of Materials Science: Materials in Electronics* (Springer), ACCEPTED.
2. Dishore S V and Albert Alexander S (2020), “Grid Integration of Modular Multilevel Inverter with Improved Performance Parameters”, *International Transactions on Electrical Energy Systems* (Wiley), ACCEPTED.
3. Balraj R and Albert Alexander S (2020), “A Novel PV Array Interconnection Scheme to Extract Maximum Power Based on Global Shade Dispersion using Grey Wolf Optimization Algorithm under Partial Shading Conditions”, *Circuit World*, ACCEPTED.
4. Dishore S V, Albert Alexander S and Johny Renoald A (2020), “Design and Control of a Grid Integrated Modular Multilevel Inverter Using Harris Hawks Optimization”, *Circuit World*, ACCEPTED.
5. Johny Renoald A, Albert Alexander S, Dhanam Christina A, Jayakumar T, and Srinivasan M (2020), “A Novel Approach for the Development of Single Source Voltage Lift Inverter Intended for Water Pump Irrigation System”, *Circuit World*, ACCEPTED.
6. Chandra Shekar Purohit, Saibal Manna, Geetha Mani and Albert Alexander S (2020), “Development of Buck Power Converter Circuit With ANN-RL Algorithm Intended for Power Industry”, *Circuit World*, ACCEPTED.
7. Gnanavel C, Albert Alexander S, Ramani Kannan K and Geetha Mani (2020), “Investigation and Validation of Eleven Level Symmetric Modular Multilevel Inverter Using Grey Wolf Optimization and Different Evolution Control Algorithms for Solar PV Applications”, *Circuit World*, ACCEPTED.
8. Albert Alexander S, Srinivasan M, Ravi S, Sampath kumar V, Senthil Kumar S and Prakash A (2020), “Power Quality Improvement in Solar Fed Cascaded Multilevel Inverter with Output Voltage Regulation Techniques” *IEEE Access*, Vol.8, pp. 178360-178371, October 2020 (Impact factor: 3.745).

9. Jaya Kumar T and Albert Alexander S (2020), "Implementation of Solar PV System Unified ZSI-Based Dynamic Voltage Restorer with U-SOGI Control Scheme for Power Quality Improvement", *Automatika - Journal for Control, Measurement, Electronics, Computing and Communications (Taylor and Francis)*, Vol.61, Issue 3, pp.371-387, May 2020, (Impact factor: 0.764)
10. Johny Renoald A and Albert Alexander S (2020), "Design and Development of Symmetrical Super-Lift DC-AC Converter using Firefly Algorithm for Solar-Photovoltaic Applications", *IET Circuits, Devices and Systems*, Vol.14, No.3, pp.261-269, May 2020, (Impact factor: 1.290)
11. Dishore S V and Albert Alexander S (2020), "A Novel PV Fed Asymmetric Multilevel Inverter with Reduced THD for a Grid-Connected System", *International Transactions on Electrical Energy Systems (Wiley)*, Vol.30, Issue 4, pp.1-25, April 2020, (Impact factor: 1.692)
12. Albert Alexander S and Brad Lehman (2018), "An Intelligent Based Fault Tolerant System for Solar Fed Cascaded Multilevel Inverters", *IEEE Transactions on Energy Conversion*, Vol.33, No.3, pp.1047-1057, September 2018, (Impact factor: 4.501).
13. Gnanavel C and Albert Alexander S (2018), "Experimental Validation of an Eleven Level Symmetrical Inverter Using Genetic Algorithm and Queen Bee Assisted Genetic Algorithm for Solar Photovoltaic Applications", *Journal of Circuits, Systems and Computers*, Vol.27, No.13, pp. (185021)1-23, April 2018 (Impact factor: 1.363).
14. Albert Alexander S, (2017), "Development of High Performance Solar Photovoltaic Inverter with Advanced Modulation Techniques to Improve Power Quality", *International Journal of Electronics (Taylor and Francis)*, Vol.104, Issue 2, pp.174-189, January 2017 (Impact factor: 1.004).
15. Albert Alexander S, (2016), "Development of Solar Photovoltaic Inverter with Reduced Harmonic Distortions Suitable for Indian Sub-Continent", *International Journal of Renewable & Sustainable Energy Reviews (Elsevier)*, Vol.56, pp.694-704, April 2016 (Impact factor: 12.110).
16. Albert Alexander S & Manigandan T, (2015), "Modeling and Analysis of Modular Multilevel Converter for Solar Photovoltaic Applications to Improve Power Quality", *IET Transactions on Renewable Power Generation*, Vol.9, No.1, pp.78-88, January 2015, (Impact factor: 3.605), **BEST PAPER AWARD FOR CONSECUTIVE 2 YEARS.**
17. Albert Alexander S & Manigandan T, (2015), "Optimal Harmonic Stepped Waveform Technique for Solar fed Cascaded Multilevel Inverter", *Journal of Electrical Engineering and Technology*, Vol.10, No.1, pp.261-270, January 2015, (Impact factor: 0.736).
18. Albert Alexander S & Manigandan T, (2014), "Design and Development of Digital Control Strategy for Solar Photovoltaic Inverter to Improve Power Quality", *Journal of Control Engineering and Applied Informatics*, Vol.16, No.4, pp.20-29, December 2014, (Impact factor: 0.775).
19. Albert Alexander S & Manigandan T, (2014), "Power Quality Improvement in Solar Photovoltaic System to Reduce Harmonic Distortions using Intelligent Techniques", *Journal of Renewable and Sustainable Energy*, Vol.6, Issue.4, pp.043127 (1)-(19), June 2014, (Impact factor: 1.51).
20. Albert Alexander S & Manigandan T, (2014), "Reduction of Voltage Harmonics in Solar Photovoltaic fed Inverter of Single phase Stand Alone Power System" *Journal of Solar Energy Engineering - Transactions of the ASME*, Vol.136, No.4, pp.044501 (1)-(4), November 2014, (Impact factor:1.641).

21. Albert Alexander S & Manigandan T, (2014), "Digital Control Strategy for Solar Photovoltaic Fed Inverter to Improve Power Quality", *Journal of Renewable and Sustainable Energy*, Vol.6, Issue.1, pp.013128 (1)-(18), January 2014, (Impact factor: 1.575).

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22. Albert Alexander S, Manoj Kumar K, Balaji M, Manoj Kumar S and Usharani S, "A Real Time Implementation of Fault Detection Strategy in DC Microgrid Using Internet of Things", *International Journal of Scientific and Technology Research*, Volume-9 Issue-2, pp.4261-4267, February 2020.
23. Albert Alexander S and Karthik.K, "An Analysis of Positive Output Cascade Boost Converter for Electric Vehicle Applications", *International Journal of Scientific and Technology Research*, Volume-9 Issue-2, pp.4722-4727, February 2020.
24. Sarin C R, Geetha Mani and Albert Alexander S (2019) "Demand Response Model for Duck Curve on PV Dominated System using Support Vector Machines Based Multistage Modeling", *International Journal of Engineering and Advanced Technology*, Volume-9 Issue-1, pp.5272-5283, October 2019.
25. Ramani Kannan, Hesham Khalid, Indragandhi V and Albert Alexander S (2018), "Threshold Voltage and Drain Current Investigation of Power MOSFET ZVN3320FTA by 2D Simulations", *International Journal of Simulation Systems, Science & Technology*, Vol.19, No.6, pp.39 (1-6), December 2018.
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28. Albert Alexander S & Manigandan T, (2013), "Modeling and Simulation of Artificial Neural Network based Harmonic Elimination Technique for Solar - Fed Cascaded Multilevel Inverter", *International Review on Modeling and Simulations*, Vol.6, No.4, pp.1048-1055, August 2013, (ICV 5.94).
29. Albert Alexander S & Karthikeyan J, (2008), "Multiple Feedback loop control strategy for UPS Inverters using Artificial Neural Networks", *International Journal of Applied Engineering Research*, Vol.3, No.5, pp.649-658, May 2008.
30. Albert Alexander S & Karthikeyan J, (2008), "Applications of Artificial Neural Networks in Power Electronics", *KASC Journal of Computer Science*, Vol.2, Issue 3, pp. 603-618.

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1. Albert Alexander S (2019), "Design and Fabrication of Solar Powered Cooking System with Improved Performance Parameters", Proceedings of the International Conference on Recent Innovations in Engineering, Technology and Management, 22nd March 2019.
2. Albert Alexander S (2019), "Design and Development of Canny Travel Kit", Proceedings of the International Conference on Recent Innovations in Engineering, Technology and Management, 22nd March 2019.
3. Albert Alexander S & Gayathri S (2016), "Design and Development of Multilevel Inverter with Level Doubling Network", Proceedings of the International Conference on Electrical, Electronics and Computer Engineering, pp.61-65, 21-23 March 2016.

4. Albert Alexander S & Tharanya R (2016), "Integer Wavelet Transform Based Approach for High Robustness of Audio Signal Transmission", Proceedings of the International Conference on Electrical, Electronics and Computer Engineering, pp.260-265, 21-23 March 2016.
5. Albert Alexander S & Suganya P (2016), "Design of Multifunctional Dynamic Voltage Restorer with Improved Power Quality", Proceedings of the IEEE sponsored International Conference on Innovations in Information, Embedded and Communication Systems, pp.785-790, 17-18 March 2016.
6. Albert Alexander S & Shanmuga Aravind P (2013), "Harmonic Minimization of a Solar fed Cascaded H Bridge Inverter using Artificial Neural Network", Proceedings of the International Conference on Energy Efficient Technologies for Sustainability, pp.163-167, March 2013.
7. Albert Alexander S, Manigandan T, Shanmuga Aravind P & Deepak Kumar M, (2013), "Modeling and Simulation of Solar Photovoltaic's using MATLAB", Proceedings of the International Simulation Conference of India, Indian Institute of Technology, Madras, 21-23 February 2013.
8. Albert Alexander S, Manigandan T, Deepak Kumar M & Vishnu Vardhan R (2012), "A Comparison of Simulation Tools for Power Electronics", Proceedings of the First International Simulation Conference of India, Indian Institute of Technology, Bombay, 02-04 February 2012.
9. Albert Alexander S & Manigandan T, (2011), "Analog Control Scheme for Cascaded Multilevel Inverters using Multiple carrier PWM Technique", Proceedings of the International Conference on Recent Advancements in Electrical, Electronics and Control Engineering, Mepco Schlenk Engineering College, Sivakasi, 15-17 December 2011.
10. Albert Alexander S, Manigandan T & Saranya E, (2011), "Fault Detection and Diagnosis of Cascaded Multilevel Inverter using ANN", Proceedings of the Second International Conference on Science and Technology, VIT University, 21-22 April 2011.
11. Albert Alexander S & Manigandan T, (2009), "Digital Switching Scheme for Cascaded Multilevel inverters", Proceedings of the Third International Conference on Power Systems, Indian Institute of Technology, Kharagpur, 27-29 December 2009.
12. Albert Alexander S, Karthikeyan J & Sivavasath A, (2007), "Applications of Artificial Neural Networks in Power Electronics", Proceedings of the International Conference on Computational Intelligence and Multimedia Applications, Mepco Schlenk Engineering College, Sivakasi, 13-15 December 2007.
13. Albert Alexander S & Sivavasath A, (2007), "Design, Simulation and Implementation of UPS inverters using Artificial Neural Network Controller", Proceedings of the International Conference on Trends in Industrial Measurements and Automation, National Institute of Technology, Trichy, 4-6 January 2007.

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2. Gnanavel J and Albert Alexander (February 2016), "Single Phase Symmetrical Multilevel Inverter for Solar PV Applications Based on Modified Multiple Carrier PWM Techniques", Proceedings of the Second National Power Engineering Research Scholar's Conference (NPERSC- 2018), IIT Madras, 24-25 February 2016.

3. Albert Alexander S & Suganya P (March 2016), "Design of Multifunctional Dynamic Voltage Restorer", Proceedings of the National Conference on Energy, Environment and Ethics, Periyar University.
4. Albert Alexander S & Vivekanandhan M, (March 2012), "Various Switching Techniques for Solar fed Cascaded Multilevel Inverter", Proceedings of the Samanway National Student Conference, Indian Institute of Science, Bangalore.
5. Albert Alexander S & Karthikeyan J, (May 2009), "Implementation of Cascaded Multilevel Inverters", Proceedings of the National Conference on Recent Trends in Electrical and Communication Technologies, METS School of Engineering, Thrissur.
6. Albert Alexander S, (February 2008), "Zero Voltage Switching of Half bridge DC-DC Converter with Modified PWM control", Proceedings of the Fourth National Conference on Cutting Edge Technologies in Power Conversion and Industrial Drives, Bannari Amman Institute of Technology, Sathyamangalam.
7. Albert Alexander S & Sivavasath A, (February 2007), "UPS inverter using Neural Network Controller", Proceedings of the First National Conference on Emerging Trends in Power Systems, K.L.N. College of Engineering, Pottapalyam, Sivagangai.
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10. Albert Alexander S & Suresh S, (February 2006), "Multilevel Inverter Based on Multistage Connection of Three Level Converters Scaled in Power of Three", Proceedings of National Conference on Power Electronics and Power Systems, Mepco Schlenk Engineering College, Sivakasi.