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**AREA OF SPECIALIZATION: Power Electronics, Power Quality, Electrical Drive,
Renewable Energy**

PUBLICATION UPLOAD (LAST 5 YEARS PUBLICATION LISTS)

List of Publications-Last 5 Years

1. K.Jayanthi, N.Senthil Kumar, **J.Gnanavadiivel** “Energy management of distributed renewable energy sources for residential DC microgrid applications” International Transactions on Electrical Energy Systems, vol-30,issue(3),pp 1-15,2020
2. N. Rathina Prabha, **J. Gnanavadiivel**, K.S .Krishna Veni “Performance Investigation of Single Switch Dual Output DC-DC SEPIC Converter for PV Applications” International Journal of Advanced Science and Technology, vol-29,issue(5),pp 4676-4683,2020
3. **J.Gnanavadiivel**, P.Yogalakshmi, N.Senthil Kumar and K.S.Krishna Veni, "Design and development of single phase AC–DC discontinuous conduction mode modified bridgeless positive output Luo converter for power quality improvement," IET Power Electronics, vol. 12, no. 11, pp. 2722-2730, 2019
4. **J.Gnanavadiivel**, N.Senthil Kumar, S.T.Jaya Christa, P. Yogalakshmi “Design and Implementation of High Power LED Lighting System for Health Care Applications” Current Signal Transduction Therapy, vol-14,issue(1),pp 31-37,2019
5. **J.Gnanavadiivel**, N.Senthil Kumar, S.T.Jaya Christa, S.Muralidharan “Design and implementation of FPGA-based high power LED lighting system for ships” Indian Journal of Geo Marine Sciences, vol-48,issue(5),pp 724-729,2019
6. **J.Gnanavadiivel**, P.Yogalakshmi, N.Senthil Kumar, S.Muralidharan “High efficient single stage Cuk LED driver for universal input voltage applications with improved power quality” Optoelectronics and Advanced Materials-Rapid Communications, vol-12,issue(11-12),pp 694-699,2018
7. S.Muthukaruppasamy , A.Abudhahir, A. Gnana Saravanan, **J. Gnanavadiivel**, Duraipandy “Design and Implementation of PIC/FLC plus SMC for Positive Output Elementary Super Lift Luo Converter working in Discontinuous Conduction Mode” Journal of Electrical Engineering & Technology, vol-13,issue(5),pp 1886-1900,2018
8. **J.Gnanavadiivel**, R.Thangasankaran, N.Senthil Kumar, K.S.Krishnaveni “Performance Analysis of PI Controller and PR Controller Based Three - Phase AC-DC Boost Converter with Space Vector PWM” International Journal of Pure and Applied Mathematics, vol-118,issue(24),pp 1-16,2018

9. **J.Gnanavadivel**, N.Senthil Kumar, P.Yogalakshmi “Comparative Study of PI, Fuzzy and Fuzzy tuned PI Controllers for Single-Phase AC-DC Three-Level Converter” Journal of Electrical Engineering & Technology , vol-12,issue(1),pp 78-90,2017
10. **J.Gnanavadivel**, N.Senthil Kumar, P.Yogalakshmi “Fuzzy controller based power quality improvement in three level converter with multiloop interleaved control for marine AC/DC applications” Indian Journal of Geo Marine Sciences, vol-46,issue(9),pp 1908-1919,2017
11. **J.Gnanavadivel**, N.Senthil Kumai, C.N. Naga Priya, K.S. Krishna Veni “Investigation of Power Quality Improvement in Super Lift Luo Converter” International Journal of Power Electronics and Drive Systems, vol-8,issue(3),pp 1240-1250,2017
12. **J. Gnanavadivel**, N. Senthil Kumar, C. N. Naga Priya, S. T. Jaya Christa, K. S. Krishna Veni “Single phase positive output super-lift luo converter fed high power LED lamp with unity power factor and reduced source current harmonics” Journal of Optoelectronics And Advanced Materials , vol-18,issue(Nov-Dec 2016),pp 1007-1017,2016
13. **J.Gnanavadivel**, N.Senthil Kumar, P.Yogalakshmi “Implementation of FPGA based three-level converter for LED drive applications” Journal of Optoelectronics And Advanced Materials , vol-18,issue(5-6),pp 459-467,2016
14. **J.Gnanavadivel**, N.Senthil Kumar, P.Yogalakshmi “Implementation of FPGA based fuzzy and hysteresis controllers for power quality improvement in single phase three-level rectifier” Optoelectronics and Advanced Materials-Rapid Communications, vol-9,issue(9-10),pp 1264-1272,2015
15. **J.Gnanavadivel**, **R. Devapriya**, N.Senthil Kumar, S.T Jaya Christa “Performance investigation of fuzzy controller, PI controller and hysteresis current controller based three - Phase AC-DC boost converter” International Journal of Applied Engineering Research, vol-10,issue(66),pp 276-283,2015