

# List of Publications

## Transactions/Journal

- 1) **Anish Ahmad**, B. Vinod Kumar, R. K. Singh and R. Mahanty “Switched-Boost Modified Z-Source Inverter Topologies with Improved Voltage Gain Capability” *IEEE Journal Emerging and Selected Topics in Power Electronics*, (Early Access) (In Press), DOI: 10.1109/JESTPE.2018.2823379.
- 2) **Anish Ahmad**, B. Vinod Kumar, R. K. Singh and R. Mahanty, “Quadratic boost derived hybrid multi-output converter” *IET Power Electronics*, vol. 10, no. 15, pp. 2042-2054, 12 15 2017.
- 3) B. Vinod Kumar, **Anish Ahmad**, R. K. Singh and R. Mahanty, “Interleaved Hybrid Converter with Simultaneous DC and AC Outputs for DC Microgrid Applications” *IEEE Transactions on Industry Applications*, vol. 54, no. 3, pp. 2763-2772, May/June 2018.
- 4) B. Vinod Kumar, **Anish Ahmad**, R. K. Singh and R. Mahanty, “Single-phase high voltage gain switched LC Z-source inverters”, *IET Power Electronics*, vol. 11, no. 5, pp. 796-807, 2018.

## International Conference

- 5) **Anish Ahmad** and R. K. Singh “Analysis of Single-Phase Modified Quasi-Switched Boost ZSI and Extended Quasi-Switched Boost ZSI”, *IEEE Industrial Application Society Annual Meeting (IEEE-IAS-2018)*, will be held in Portland, Oregon, USA, Sep. 2018. (Accepted for Presentation)
- 6) **Anish Ahmad** and R. K. Singh “Topologies of Switched-Inductor Switched-Capacitor Based Enhanced Boost Z-Source Inverters for Renewable Energy Applications”, *IEEE International Conference on Energy Conversion Congress and Exposition (IEEE-ECCE-2018)*, will be held in Portland, Oregon, USA, Sep. 2018. (Accepted for Presentation)
- 7) **Anish Ahmad** and R. K. Singh “Active-Switched-Capacitor Based Diode Assisted and Capacitor Assisted Extended Switched Boost Z- Source Inverters”, *IEEE International Conference on Energy Conversion Congress and Exposition (IEEE-ECCE-2018)*, will be held in Portland, Oregon, USA, Sep. 2018. (Accepted for Presentation)
- 8) **Anish Ahmad**, and R. K. Singh “Single-Phase Modified Continuous Input Current Switched Boost Inverter for High Voltage Gain”, *IEEE International Transportation Electrification Conference India (ITEC-India-2018)*, Pune, India, Dec. 2017, pp 1-6.

- 9) **Anish Ahmad**, R. K. Singh and R. Mahanty, "A Novel Non-Isolated Magnetically Coupled Based Bidirectional Quadratic Converter", *IEEE International Conference on Power Electronics, Drives and Energy Systems (IEEE-PEDES-2016)*, Trivandrum, Kerala, Dec. 2016, pp. 1-6.
- 10) **Anish Ahmad**, R. K. Singh and R. Mahanty, "Bidirectional Quadratic Converter for Wide Voltage Conversion Ratio", *IEEE International Conference on Power Electronics, Drives and Energy Systems (IEEE-PEDES-2016)*, Trivandrum, Kerala, Dec. 2016, pp. 1-5.
- 11) **Anish Ahmad**, R. K. Singh and R. Mahanty, "Minimum phase hybrid coupled inductor quadratic boost inverter," *42nd Annual Conference of the IEEE Industrial Electronics Society (IEEE-IECON-2016)*, Florence, Italy, 2016, pp. 3727-3732.
- 12) **Anish Ahmad**, R. K. Singh and R. Mahanty, "Design and analysis of a modular magnetically coupled quadratic boost topology with a damping network for DC microgrid", *IEEE International Conference on Energy Conversion Congress and Exposition (IEEE-ECCE-2015)*, Montreal, QC, Canada, Sept. 2015, pp. 3392-3399.
- 13) P. Agarwal, **Anish Ahmad** and R. K. Singh, "A modular high step up quadratic boost topology with minimum phase behaviour for microsource applications," *IEEE International Conference on Power Electronics, Drives and Energy Systems (IEEE-PEDES-2014)*, IIT Bombay Mumbai, Dec. 2014, pp. 1-6.

### **National Conference**

- 14) **Anish Ahmad**, R. K. Singh and R. Mahanty, "A Coupled Inductor Hybrid Quadratic Boost Inverter for DC Microgrid Application", *National Power Electronic Conference (NPEC-2015)*, IIT Bombay Mumbai, Dec. 2015, pp. 1-6.