

PUBLICATIONS

JOURNALS

1. **S. Acharya** and S. K. Mishra, "Interleaved Current-Fed Switched Inverter," in **IEEE Transactions on Power Electronics**, vol. 35, no. 7, pp. 7015-7030, July 2020, doi: 10.1109/TPEL.2019.2954616.
2. **S. Acharya**, A. Mallik and S. K. Mishra, "PWM Control of a High Gain n-Phase Interleaved Current Fed Topology," in **IEEE Transactions on Industrial Electronics**, doi: 10.1109/TIE.2021.3095795.
3. **S. Acharya**, O. Ray and S. K. Mishra, "Powering Milliwatts to Megawatts," in **IEEE Consumer Electronics Magazine**, vol. 9, no. 2, pp. 70-75, 1 March 2020, doi: 10.1109/MCE.2019.2954044.
4. **S. Acharya** and S. Mishra, "PWM Control of N-Phase Interleaved Active Front-End Boost Stage- Based Impedance Source Inverter," in **IEEE Transactions on Power Electronics**, vol. 37, no. 6, pp. 7354-7369, June 2022, doi: 10.1109/TPEL.2021.3135950.

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1. **S. Acharya**, N. S. Chauhan and S. K. Mishra, "Replacing Si-IGBT by SiC Mosfet in high Gain Inverter: Challenges and Opportunities," *2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, Chennai, India, 2018.
2. **S. Acharya** and S. K. Mishra, "Design and Analysis of Interleaved Current Fed Switched Inverter," *2019 IEEE Applied Power Electronics Conference and Exposition (APEC)*, Anaheim, CA, USA, 2019.
3. **S. Acharya**, A. Gambhir and S. Mishra, "Elimination of 2f Ripple in a Current Shared Interleaved Current Fed Switched Inverter," *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, Detroit, MI, USA, 2020.
4. **S. Acharya**, S. Mishra and A. Tiwari, "An n-Phase Interleaved Current Fed Switched Inverter," *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, Detroit, MI, USA, 2020.
5. S. Jha, **S. Acharya** and S. Mishra, "Design and Performance Evaluation of an Air-Core Inductor for Point-of-Load (POL) Converter," *2020 IEEE Energy Conversion Congress and Exposition (ECCE)*, Detroit, MI, USA, 2020.
6. **S. Acharya**, and S. K. Mishra, "A Review of High Gain Inverters for Smart Grid Applications," *2018 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES)*, Jaipur, India, 2020.
7. **S. Acharya**, S. Mishra and A. Tiwari, " PWM Control of an n-Phase Interleaved Current Fed Topology," *2021 IEEE Energy Conversion Congress and Exposition (ECCE)*, USA, 2021.
8. **S. Acharya**, S. Banerjee, and S. Mishra, "An n-Phase Interleaved Switched Boost Topology," *2021 IEEE Transportation Electrification Conference (ITEC-India)*, New Delhi, India, 2021.
9. **S. Acharya**, S. Banerjee, and S. Mishra, "Design and implementation of an air-cored flyback converter," *2023 IEEE International conference on Power Electronics and Drives Systems*, Canada, 2023.
10. **S. Acharya**, S. Banerjee, and S. Mishra, "An Integrated Control Structure for Improving Performance of Interleaved Current-fed Switched Inverter," *2024 IEEE Applied Power Electronics Conference and Exposition*, USA, 2024.
11. S. Banerjee, **S. Acharya**, and S. Mishra, "Effect of Grid Current QSG on Harmonic Current Content in Single Phase Grid Connected Inverter," *2024 IEEE Applied Power Electronics Conference and Exposition*, USA, 2024.
12. D. Vibhandik, **S. Acharya**, and S. Mishra, "Control of Bidirectional Inverter in Mixed Energy EV to Home System," *2023 National Power Electronics Conference*, Guwahati India, 2023.
13. D. Rana, **S. Acharya**, A. Suresh, S. K. Mishra and S. Nair, "A Review of High-Voltage High-Step Down Isolated Converter Topologies," *2024 IEEE International Communications Energy Conference (INTELEC)*, Bengaluru, India, 2024, pp. 1-5, doi: 10.1109/INTELEC60315.2024.10678975.