

## List of Publications

### Journal/Transactions:

1. V. P. Maurya, A. K. Pratihasta and R. K. Singh, "A Multimode On-Board Charger With Multiport Outputs With Reduced Switch Count for EVs," in *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, vol. 5, no. 1, pp. 263-273, Jan. 2024, doi: 10.1109/JESTIE.2023.3328747.
2. V. P. Maurya and R. K. Singh, "A Multifunction Power Converter with Multimode Capabilities for Low Power Electric Vehicles," in *IEEE Transactions on Power Electronics*, doi: 10.1109/TPEL.2025.3562745.
3. V. P. Maurya and R. K. Singh, "Adaptable On-Board Power Processor for G2V, V2G, MM, and V2V Operation with Auxiliary Power Supplies for Low-Power EVs," in *IEEE Transactions on Power Electronics*. (TPEL-RegAP-2025-04-1241)(Under review).
4. V. P. Maurya, and R. K. Singh, "A Reversible Power Processor with Multi-operation for Low-Power EV Applications," in *IEEE Journal of Emerging and Selected Topics in Industrial Electronics*, (JESTIE-25-0077). (Under review).

### Patent

1. R.K. Singh, Virendra Prasad Maurya, and A. K. Pratihasta "Multifunctional Multioutput On-board Electric Vehicle Power Processor". Patent Office: India, Patent Application No.: 202511038656.

### IEEE Conferences:

1. V. P. Maurya, P. Jena, and R. K. Singh, "Performance Evaluation of a Reconfigurable On-Board Charger for Electric Vehicles with Multi-Output and Reduced Switch Count," 2023 IEEE Transportation Electrification Conference & Expo (ITEC), Detroit, MI, USA, 2023.
2. V. P. Maurya and R. K. Singh, "Versatile On-Board Power Processor for BLDC & IM Driven Electric Vehicles," 2023 IEEE International Transportation Electrification Conference (ITEC-India), Chennai, India, 2023.

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