Electromagnetic compatibility filters for on-board charger of electric vehicles

Research Focus

- Design and optimization of EMI/EMC filters for power electronic systems
- Advanced power electronics solutions for electric vehicle (EV) on board chargers (OBCs)

Contact

- Xingqi Yin

Links

Short Description

The research focuses on the design and optimization of high-efficiency, high-power-density power converters and EMI filters for electric vehicle (EV) on-board chargers (OBCs). The work encompasses advanced converter topology development, magnetic integration, and compact EMI filter design to meet stringent efficiency and electromagnetic compatibility (EMC) requirements. Modeling, simulation, and experimental validation are systematically employed to enable compact, reliable, and standards-compliant EV charging solutions.

Picture(s) (if available)

Publications (if available)