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## Integration Renewable Energy Sources and Electric Vehicles into the Electric Power Grid: Progress, Impact and Challenges

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Deadline for manuscript submissions:

**closed (15 May 2023)**

### **Message from the Guest Editors**

This Special Issue is dedicated to investigating the converters, control, and impact of RESs and EV integration into the electric power grid. Original research papers that emphasize recent advancements on converter topologies, control techniques, multifunctional control of grid-connected converters, impacts of RESs and EVs penetration on the electric power system and power quality in the context of grid integration of RESs and EVs are welcome. Original research on the design, analysis, and impact of RESs integrated EV charging stations and Review papers and studies that include recent advancements and detailed comparisons of RESs' and EVs' grid integration are welcome.

**Keywords:** Grid integration of RESs; Solar photovoltaic; Wind energy conversion system; Converter topologies; Maximum Power Point Tracking; Converter control techniques; Adaptive control algorithms; Fractional order control algorithms; Artificial intelligence applications; Coordinated control of hybrid RESs; Multilevel converters; RESs integrated electric vehicle charging station; Battery storage; Battery charging; Wide band gap device applications in RESs and EVs; Large scale RESs grid integration



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# Special Issue



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## Message from the Editor-in-Chief

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