## Special Issue

# Emerging Technologies in Electric Vehicle Engineering: Battery Chargers, Electric Drives, and Smart Grid Services

### Message from the Guest Editors

The electric vehicle (EV) is recognized to be part of the expected strategic response against the global warming issue. Government, authorities, and automotive players have already started the so-called green shift, in which EVs are one of the most crucial elements. Novel power converter charging topologies dealing with the increasing AC and DC fast charging demand capable of guaranteeing bidirectional power flows are one of the most promising research fields. Unconventional electric drive structures able to provide torque vectoring, size, weight, and efficiency optimization are an already recognized hot topic. Finally, the unexploited capability of EV to actively contribute with ancillary smart grid services into power systems is expected to be a key player in the transition toward a fully/strongly dominated renewable energies scenario. Electric vehicle engineering represents a broad study field with main topics such as smart battery packs, battery management systems, wide-bandgap power components, cockpit electromagnetic compatibility, storage technology, intelligent control systems, and many others, and all of them are an acknowledged part of the EV research trend today.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (31 December 2021)



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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

#### Editor-in-Chief

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