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Electrical Applications of Advanced Composite Materials

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Deadline for manuscript submissions:
closed (31 December 2018)

Message from the Guest Editors

Dear Colleagues,

Composites are engineering materials that benefit from the synergy of combining the physical properties of a matrix and the reinforcement. This feature allows researchers to design and tailor the behavior of composite materials for specific engineering applications. One of the fields that strongly benefits from this is the electrical sector. […]

The scope of this Special Issue covers the new approaches to the use of composite materials in electrical applications, like for instance electrical contacts, plug connectors, electrodes, but also sensors. The focus of the submitted manuscripts may be placed on:

- Design and manufacturing of different composite systems (multilayers, metal matrix composites, polymer matrix composites, pseudoalloys, carbon-based materials, etc.).
- Advanced characterization (microstructural, physical properties, etc.).
- Modelling and/or simulation.
- Prototype performance (contact resistance, make/break operations, friction and wear analysis, sensing response, durability, etc.).

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