Special Issue

Advanced Power Devices and Power Systems

Message from the Guest Editor

It is estimated that more than 70% of the world's electricity is preprocessed by low and medium power circuits and systems. These circuits are designed using advanced semiconductor elements and magnetic elements. These elements are the subject of much scientific research around the world. However, a lot of scientific attention is also given to power electronic circuits built for the purpose of converting the supplied electrical energy. Advanced semiconductor and magnetic power elements are increasingly used in the process of converting electrical energy between the producer and the user in order to change high and medium voltage to low voltage, which is suitable for end users. An important element in the design process of power electronic systems is the modeling of phenomena occurring in these systems, while most attention is paid to electrothermal models of power semiconductor elements and magnetic elements. The most important phenomenon in power electronic systems is also reliability, which is achieved by selecting appropriate advanced power components. This Special Issue of *Applied Sciences* will be devoted to the advanced power elements and power systems.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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