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Advances in Power Electronic Converters with Application in Renewable Energy Sources

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Message from the Guest Editors

Dear Colleagues.

There is an urgent need to reduce the environmental impact caused by electricity production, moving from fossil or nuclear energy to renewable energy (mainly solar or wind). The fact that renewable sources are intermittent in nature makes it difficult to provide a stable, reliable electricity supply. Making renewable energy systems technically and economically viable is at the core of this challenge, where a very important asset is the power converter—its design and control, pursuing sustainability, reliability, and performance—in the vast range of its applicability. The combination of these two important research subjects is quite important, as the urgency of facing the challenge of replacing fossil energy with renewable energy becomes paramount. There has been a growing and unprecedented number of technical problems and challenges in the last few years stemming from this pursuit. The aim of this Special Issue is to publish recent original research advances in power converters applied to renewable energy.

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Message from the Editor-in-Chief

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