

Special Issue

Advanced Technologies in Energy-Efficient Convertors

Message from the Guest Editors

This Special Issue aims to share the experience of colleagues in the field of power electronics. Here we will consider new solutions in the conversion of AC to DC, DC to AC, AC to AC and DC to DC. Both load and energy sources are an integral part of the proposed devices. The application of these devices in renewable energy, electric power generators for mobile vehicles and autonomous objects, electric energy storage devices, drives and electric machines will be considered. In the field of semiconductor converters control, algorithms of digital control systems will be considered, and recommendations will be given for setting up feedback loops for current, voltage, speed, etc. Among semiconductor converters, multipulse rectifier circuits, multilevel inverters, AC voltage regulators, pulse voltage converters, boost, buck, buck-boost and resonant converters will be considered. In addition, circuits of such devices such as matrix converters, cyclo-converters, and frequency converters will be proposed.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2022)



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About the Journal

Message from the Editor-in-Chief

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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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