

Special Issue

Advanced Applications of Power Conversion Systems and Power Generation

Message from the Guest Editors

With increasing regulatory ambition (e.g., EU green deal) and voluntary (e.g., corporate) commitments for decarbonization, sustainability and low-carbon energy transition have become a major worldwide priority. Building a renewable-based green power system would be critical to achieving low-carbon energy transition, due to the rapidly increasing electrification taking place across sectors (such as EVs, industrial heat pumps and buildings electric boilers). Power will become the new fuel powering all demand sectors directly or indirectly (e.g., electrolysis-based hydrogen production). Given this context, this work aims to investigate the ecosystem of new power systems to accommodate high penetration of renewables and integrate distributed energy resources from micro-grids, focusing on how to improve the reliability, efficiency and economics for such a system through optimizing and developing new power electronics solutions. This Special Issue intends to seek high-quality submissions that present emerging applications and recent breakthroughs in power conversion systems and power generation.

Guest Editors

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Deadline for manuscript submissions

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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