

Special Issue

DC–DC Power Converter Technologies for Energy Storage Integration

Message from the Guest Editors

Researchers are invited to submit articles covering a wide range of disciplines and perspectives, including but not restricted to the following:

- Energy efficient bidirectional DC–DC converters;
- The novel topologies of bidirectional DC–DC converters;
- The modern control systems of DC–DC converters;
- The reliability of power electronic systems for energy storage applications;
- The modeling and simulation of power electronic systems with energy storage;
- Renewable energy systems with DC–DC converter-controlled energy storage;
- DC microgrids with energy storage;
- DC–DC converter control strategies for energy storage integration;
- DC–DC converters for the active balancing of energy storage;
- The electromagnetic compatibility of DC–DC converters;
- Artificial intelligence-based control systems for energy flow control;
- The passive component optimization of bidirectional DC–DC converters.

Guest Editors

Dr. Kaspars Kroičs

Dr. Mariusz Zdanowski

Dr. Dimitar Arnaudov

Deadline for manuscript submissions

15 October 2025



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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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