

Special Issue

Engineering Applications of Power Electronics in Renewable Energy Systems

Message from the Guest Editor

This Special Issue invites original research articles, reviews, and case studies that explore cutting-edge applications of power electronics in renewable energy systems and sustainable energy systems at large. Topics include, but are not limited to, advanced converter topologies, integration of Battery Energy Storage Systems (BESSs) and hybrid storage, control and protection strategies for grid-tied inverters, reliability assessment of converters, and AI-driven approaches for fault diagnosis and predictive maintenance. Contributions exploring the role of electric vehicles (EVs), charging infrastructures, and Vehicle-to-Grid (V2G) technologies as dynamic resources for renewable energy and energy system integration are especially encouraged.

Guest Editor

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Deadline for manuscript submissions

31 August 2026



Eng

an Open Access Journal
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Impact Factor 2.4
CiteScore 3.2



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Message from the Editor-in-Chief

Eng (ISSN 2673-4117) is an international, peer-reviewed open access journal which publishes original papers, critical reviews, rapid communications, technical notes, and discussions on all areas of engineering.

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