

Special Issue

Advanced Power Generation and Conversion Systems, 2nd Edition

Message from the Guest Editors

This Special Issue follows the publication of the first volume focusing on “[Advanced Power Generation and Conversion Systems](#)”. The main aim of this Special Issue is to obtain a complete overview of advanced materials, devices, technologies, and control logics in terms of power generation and conversion systems. The topics of interest include, but are not limited to, the following:

- H₂-based generation;
- On-shore and off-shore wind generation;
- Hydropower;
- Multi-vector generation;
- Cogeneration;
- Tri-generation;
- Biomass;
- V2G;
- Storage (Li-ion, SuperCap, Flow batteries, hybrid);
- Nuclear generation;
- Advanced materials for power generation;
- HVDC systems;
- Statcom systems;
- Solid state transformers;
- Grid-forming inverters;
- Conversion interface;
- Advances materials and solution for power converters;
- Planning, management methodology;
- Control logics
- Load and generation forecasting;
- Power systems cybersecurity;
- Virtual inertia provision.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 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.

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