

Special Issue

Advances in Power Converters for Use in Cleaning Contaminants in Water

Message from the Guest Editor

Advances in power converters play a significant role in addressing water contamination challenges. Power converters are essential components in water treatment systems, facilitating the conversion and control of electrical energy to power various processes involved in cleaning contaminants from water. The scope of these advances is broad and encompasses several key areas:

- Energy Efficiency;
- Renewable Energy Integration;
- Advanced Control Systems;
- Modularity and Scalability;
- Electrochemical Processes;
- Pulse Power Technology;
- High-Frequency Power Electronics;
- Data Analytics and Monitoring;
- Electrochemical Sensor Integration;
- Cost Reduction;

In summary, the scope of advances in power converters for water treatment is vast and holds great potential for addressing global water contamination challenges by providing more efficient, sustainable, and adaptable solutions.

Guest Editor

Prof. Dr. Pedro J. Villegas

Department of Electrical, Electronic, Communications and Systems Engineering, University of Oviedo, 33204 Gijón, Spain

Deadline for manuscript submissions

closed (15 March 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/196888

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](https://mdpi.com/journal/electronics)



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

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus /
SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 16.8 days after
submission; acceptance to publication is undertaken in 2.4
days (median values for papers published in this journal in
the first half of 2025).