

Special Issue

GaN Technology's Role in Next Generation Electronics Circuits and Power Applications

Message from the Guest Editors

This Special Issue will include (but is not limited to) the following topics:

- GaN-based materials and heterostructures growth and characterization;
- Device processing steps (contacts, dielectrics, etching, etc.);
- GaN-based devices (advanced lateral HEMTs for power and RF applications, vertical GaN-based devices and packaging, etc.);
- Devices characterization, modeling and reliability;
- GaN systems: modeling, testing and reliability;
- Intelligent and integrated GaN solutions (systems in package and monolithic formats);
- Advanced topologies and control strategies for GaN-based power converters.

A selection of the best contributions will be invited to present the work at the "International Workshop of the EU Project GaN4AP" that the University of Catania is organizing in February 2025 in Catania. The workshop will be a unique opportunity for bringing together leading specialists working in different areas of gallium nitride (GaN) technology, both from universities, research centers and industries.

Guest Editors

Prof. Dr. Egidio Ragonese
Prof. Dr. Gianluca Giustolisi
Prof. Dr. Giacomo Scelba

Deadline for manuscript submissions

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

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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 guestedited 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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).