# Special Issue

# Energy-Efficient Wireless Solutions for 6G/B6G

## Message from the Guest Editors

Future 6G/B6G is designed to operate at multi-terabitper-second data rates along with ultra-low latency, which can support large amounts of data transmissions. With the deployment of massive Internet of Things (IoTs) devices, the generated data will result in high energy demand: thus, energy efficiency becomes one of the important requirements of 6G/B6G. To achieve this goal, novel energy-efficient wireless solutions are required. For example, smart energy resource management is a mechanism that could be employed by future networks to dynamically optimize the balance between energy demand and energy availability. Edge computing allows some latency-sensitive computation tasks to be offloaded to the edge servers instead of being transferred to the cloud servers to shorten the communication distance. Topics of interest include the following: Energy-efficient resource allocation: Energyefficient architecture for future networks; Smart energy resource management; Energy efficiency in edge computing; Energy-efficient radio technologies; Energyefficient offloading for 6G; Al-based energy-efficient multiple access technologies; Integrated sensing and communication technologies.

## **Guest Editors**

Dr. Pei Peng

Dr. Tianheng Xu

Dr. Shuyi Chen

## Deadline for manuscript submissions

closed (15 June 2025)



## **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/183045

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

mdpi.com/journal/electronics





## **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



## **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

## **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).

