Special Issue

Advanced Energy Supply and Storage Systems for Electric Vehicles

Message from the Guest Editors

In recent years, electric vehicles have become incredibly popular and widespread. Electric vehicles are based on evolving technology that is constantly being improved. Their key components are power sources and energy storage systems, and the features of these components directly influence the performance and driving distance of the vehicles. The purpose of this Special Issue is to publish original theoretical and practical research ideas in the field of power supply and energy storage systems for electric vehicles. The topics include but are not limited to:

- New energy storage systems for electric vehicles;
- Battery and fuel cell storage systems for electric vehicles;
- Energy management systems for electric vehicles;
- Hybrid battery/ultra□capacitor energy storage systems;
- New topologies and control methods of inverters for electric vehicles;
- Thermal management of battery systems;
- Advanced charging systems for electric vehicles.

Guest Editors

Dr. Dmitry Baimel

Electrical engineering department, Shamoon College of Engineering, Jabotinski St 84, Ashdod, Israel

Dr. Inna Katz

Department of Electrical and Electronics Engineering, Shamoon College of Engineering, Basel St., Be'er Sheva 8410802, Israel

Deadline for manuscript submissions

closed (20 March 2024)

Electronics

an Open Access Journal by MDPI

Impact Factor 2.6
CiteScore 6.1

mdpi.com/si/147878

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

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 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).

MDPI