Special Issue

Advanced Solutions for the Efficient Integration of Electric Vehicles in Electricity Grids: 2nd Edition

Message from the Guest Editors

The decarbonisation of road transport and its efficient integration into the electricity grid is one of the cornerstones of energy transition. The electrification of the transport sector serves two objectives: (1) to reduce the reliance of the transport sector on fossil fuels and (2) to reduce vehicle greenhouse gas (GHG) emissions by using environmentally friendly energy sources to meet the EV charging demand. The scope of this Special Issue is to present advanced EV charging and management solutions, enabling the efficient integration of electric vehicles in the electricity grids at all grid levels under a mass deployment scenario. We hope you can join us in this Special Issue by contributing original research papers and unpublished work not currently under review by any other journal/magazine/conference.

Guest Editors

Dr. Evangelos Karfopoulos

Dr. Michele Roccotelli

Dr. Ioannis Karakitsios

Deadline for manuscript submissions

30 October 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/221066

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

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI