

Special Issue

Advanced Coordinated Optimization Strategy of Electric Vehicle and Smart Grids

Message from the Guest Editors

A shift in society towards decarbonization and environmentally friendly lifestyles has brought many challenges for the operation and control of electrical power systems. This Special Issue aims to gather and present original contributions and reviews focused on advanced optimization strategies related to electric vehicle operation, charging, and utilization within smart grids.

- Electric vehicle operation modeling;
- Battery charging modeling;
- Electric vehicle operation and charging predictions;
- Optimization of electric vehicle fleet coordination;
- Coordination between transportation and electrical power system sectors;
- Optimization of electric vehicle charging;
- Impact of different electric vehicle charging strategies on electrical power systems;
- Advanced strategies of smart grid operation and control;
- Vehicle-to-X concepts;
- Cooperation of renewables and electric vehicle charging stations.

Guest Editors

Dr. Martina Kajanova

Dr. Marek Höger

Dr. Peter Bracinik

Prof. Dr. Pavol Špánik

Deadline for manuscript submissions

closed (31 July 2024)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/148680

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

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





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



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