

Special Issue

Smart Charging and Grid Integration for Sustainable Electric Transportation

Message from the Guest Editors

By exploring diverse topics, this Special Issue aspires to provide a comprehensive understanding of the evolving landscape of EV charging infrastructure and contribute valuable insights to facilitate the transition toward sustainable and grid-integrated transportation. Topics of interest include, but are not limited to, the following:

- Optimal charging station power supply and energy management;
- Advance bidirectional electric vehicle energy management strategies (V2G, V2B, V2H, V2V);
- Utilization of EVs as flexible assets for enhanced grid ancillary services;
- Strategies for integrating renewable energy sources into eV charging infrastructure;
- Development of EV charging pricing models and their effect on grid operation;
- Solutions for mitigating congestion and optimizing grid utilization;
- Implementation of mathematical programming in smart charging;
- Machine learning applications in EV charging—operation optimization and forecasting;
- Future prospects and policy implications.

Guest Editors

Prof. Dr. Damir Jakus

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, 21000 Split, Croatia

Dr. Josip Vasilj

Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, University of Split, 21000 Split, Croatia

Deadline for manuscript submissions

31 October 2025



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/196610

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

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





Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



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



About the Journal

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

Author Benefits

Open Access:

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

High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1
(Geography, Planning and Development)