

## Special Issue

# Electrification of Urban Transports and the Environment

### Message from the Guest Editor

The adoption of purely battery electric vehicles (BEVs), plug-in hybrid electric vehicles (PHEVs), light rail train (LRT), low-speed Maglev (LSM), personal rapid transit (PRT), high-speed Maglev (HSM), and evacuated tube transport (ETT) and others electric urban transports become a crucial part of the solution to mitigate climate change and several governments have been supporting the adoption of these kinds of urban transports in big cities. As a result, it is valuable to understand the impact of the electrification process of urban transport on the environment. Consequently, this Special Issue will primarily focus on identifying and analyzing the effects of the urban transport electrification process on the environment. This Special Issue looks for contributions to achieve that objective. The topics include: -Urban transport electrification and energy consumption; -Electric vehicles and smart grids; -Passenger transport systems performance and environment; -New transport systems concepts and future perspectives; -Fine particulate matter (PM<sub>5</sub>), CO<sub>2</sub> emissions, and GHGs; -Electric vehicles and the environment.

---

### Guest Editor

Dr. Matheus Koengkan

Institute for Legal Research (ILeR), Faculty of Law, University of Coimbra, 3000-018 Coimbra, Portugal

---

### Deadline for manuscript submissions

closed (31 December 2022)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8



[mdpi.com/si/109667](https://mdpi.com/si/109667)

*Sustainability*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 6.8



[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, AGRIS, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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