



Advances in Railway Electrification

Guest Editors:

Dr. Marzio Grasso

School of Aerospace, Transport
and Manufacturing, Cranfield
University, Senior Lecturer,
Cranfield, Bedfordshire MK43
0AL, UK

Prof. Dr. Mark Robinson

Future Mobility Group, School of
Engineering, Cassie Building,
Newcastle University, Newcastle
upon Tyne NE1 7RU, UK

Deadline for manuscript
submissions:

closed (30 September 2021)

Message from the Guest Editors

The scope of this special issue is to provide an overview of the technological challenges in the development of efficient electric trains, implementing new power systems and innovative infrastructure to support the development of solutions to meet net zero emission targets.

This Special Issue aims to explore the design of innovative infrastructure for the cost effective electrification of railway lines, conventional and innovative testing procedures for components of infrastructure, the structural performance of conventional and innovative materials for railway application, the design of innovative locomotives for zero/low-carbon emission, the design and testing of energy storage devices and their structural assessment under service conditions, innovative solution to reduce emission of diesel engines for heavy duty applications, advanced powertrains for mobility and power generation applications, and advanced battery management systems.





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group,
Department of Natural Resources
and Environmental Engineering,
School of Mining Engineering,
University of Vigo, 36310 Vigo,
Spain

Message from the Editor-in-Chief

You are invited to contribute a research article, review or short communication for consideration and publication in *Infrastructures* (ISSN 2412-3811). There is no restriction on the length of the papers. *Infrastructures* is published in open access format. The scientific community and general public have unlimited free access to the content as soon as it is published. *Infrastructures* is supported by the authors by the payment of article processing charges for accepted manuscripts. Please consider *Infrastructures* as an exceptional opportunity to publish your work.

Author Benefits

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

High Visibility: indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

Journal Rank: CiteScore - Q2 (*Building and Construction*)

Contact Us

Infrastructures Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/infrastructures
infrastructures@mdpi.com