

Special Issue

Advanced Light-Weighting for Future Electric Vehicles

Message from the Guest Editors

The World Economic Forum is encouraging companies to raise their ambitions for climate actions in order to reduce emissions for road vehicles, as they are one of the greatest contributors to CO₂ and NO_x emissions. The recent developments in battery technology has enhanced the performance of electric vehicles (EVs), providing increased power, range and charge rate. The scope of the Special Issue is to gather contributions related to the technological challenges in the development of lightweight EV systems. The topics of relevance are development and testing of innovative material, design and simulation with advanced topological optimisation, simulation and testing of joints with similar and dissimilar materials, novel joining solutions, in-process inspection and control, structural integrity of joints, fatigue performance of innovative metallic and composites components, smart manufacturing for production up-scaling of EV systems, composites hybridization, additive manufacturing, natural fibres composites and crashworthiness of EVs, design for recycling.

Guest Editors

Dr. Marzio Grasso

Advanced Vehicle Engineering Centre, Cranfield University, Cranfield MK43 0AL, UK

Dr. Pasquale Franciosa

WMG, The University of Warwick, Coventry CV47AL, UK

Deadline for manuscript submissions

closed (31 March 2021)



Infrastructures

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 5.7



mdpi.com/si/51156

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

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





Infrastructures

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 5.7



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



About the Journal

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.

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

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:

JCR - Q2 (Construction and Building Technology) /
CiteScore - Q1 (Building and Construction)