

Special Issue

Sustainability Assessment of Lightweight Design in the Automotive Field: Real-Life Case Studies and Development of Eco-Design Tools

Message from the Guest Editor

Sustainability will release a Special Issue dedicated to the design and sustainability assessment of novel lightweight solutions from a life-cycle perspective. Both conceptual and real-life case study papers are welcome. Examples of contents include but are not limited to:

- Knowledge improvement of eco-profile for innovative lightweight materials (i.e., composites, hybrid, recycled, and bio-based materials);
- Life cycle assessment, life cycle costing, and social life cycle assessment of real-life lightweight case studies: novel design solutions, materials, and manufacturing technologies;
- Sustainability assessment of real-life lightweight case studies based on tailored single score indicators that include the three dimensions of sustainable development: environmental protection, economic viability, and social equity;
- Development of eco-design strategies and tools which integrate sustainability principles and traditional design issues within the early design stage;
- Development of new guidelines and indicators to comprehensively assess the potential of lightweighting in terms of benefits related to the whole life cycle of components.

Guest Editor

Dr. Francesco Del Pero

Department of Industrial Engineering, University of Florence, Florence, Italy

Deadline for manuscript submissions

closed (31 August 2022)



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

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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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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