Special Issue

Circular Economy Strategies Applied to Vehicles

Message from the Guest Editor

Over the last few decades, the demand for natural resources has increased exponentially. As a result, ensuring the sustainable use of natural resources is a major concern. Vehicle manufacturing is one of the sectors that demands a large quantity and variety of materials. A conventional car is made of more than 50 different types of metals and more than 23 different types of plastics, most of which are crucial in their design but also critical from a sustainability perspective. Moreover, the replacement of current cars for the new generation of vehicles, which are cleaner, safer, and connected, will increase the demand of critical materials in the manufacturing of some components, e.g., batteries, electronics, microchips, sensors, permanent magnets and touch screens. As a result, the availability of raw materials is a matter of concern for the automobile industry: therefore, new sustainable and circular approaches must be urgently applied.

This Special Issue investigates how vehicles can become more sustainable regarding raw materials and how scarce resources can be recovered. We welcome all contributions tackling this broad area of research.

Guest Editor

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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

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