



Circular Economy Strategies Applied to Vehicles

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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.





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