

Topical Collection

Management, Environment, Energy and Sustainability under a Circular Economy

Message from the Collection Editors

The linear economic model, based on a sequential approach 'take-make-consume-throw away', cannot be acceptable in a society oriented to an environmental sustainability. The required change of vision comes from the concept of circular economy: here, products and their materials are valued as most as possible, reducing waste generation to a minimum. Energy recovery from waste should become secondary compared to material recovery, assuming that an economic sustainability must be always guaranteed. What used to be managed as a waste can be turned into a resource, reducing the pressure on environment. The circular economy, built on technical and social innovations, necessitates taking into account the regional priorities, and assumes, on the one hand, the increased energy and material efficiency of technological processes, including those using conventional fuels and energy, and raise in the competitiveness of alternative fuels and energy on the other hand. It is necessary to address the challenges of required optimisation for various energy and materials alternatives, and to indicate innovated solutions for industrial and transportation development.

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