Special Issue

Advances in Waste and Biomass Management and Valorization

Message from the Guest Editors

Global concerns on climate-related sustainability issues are on the rise. Along with the quest of finding efficient solutions for improved recycling methods for various types of waste materials, the emphasis on carbon footprint (CF) measurements has become an essential approach to determine potential GHG reduction benefits. A better environmental performance of waste recycling and management can be obtained in many ways: enhanced productivity of recycling operations, converting waste to valuable materials, using renewable energy in waste treatment, and many more. The recommended way to systematically and scientifically evaluate the carbon footprint—and the overall environmental performance of waste and recycling methods—is the use of the life cycle assessment (LCA). To determine the overall CF of waste treatment activities, the LCA methodology plays a crucial role by considering within its system boundaries the stages involved in waste recycling and management.

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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