Special Issue

Application of Life Cycle Assessment for Solid Waste Management

Message from the Guest Editor

For a long time, life cycle assessment (LCA) has been widely used to evaluate the environmental impact of waste management. As concepts such as remanufacturing, cradle-to-cradle, and circular economy evolve along with improved technology, it is relevant and vital that LCA methodology be further developed so that it can be used to evaluate the environmental benefits of increased circularity of materials. Papers within the whole field of LCA of solid waste management are welcome. Of special interest are papers on (1) methodology development and (2) combined assessment of waste management systems and other systems such as transport systems, energy systems, agricultural systems etc. investigating how waste can be turned from a problem to a renewable resource, thereby offsetting environmental impact from conventional production methods. Other topics include, but are not limited to, LCA used in:

- circular economy concepts;
- scenarios and future studies;
- technology development;
- combination with cost benefit analysis and social LCA;
- policy making;
- planning and implementation;
- education and training.

Keywords: solid waste treatment, LCA, policy making

Guest Editor

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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