Special Issue

Circular Waste Management: Returning End-of-Life Products Back to the Economy

Message from the Guest Editor

The waste generated is raising in amount and hazardousness, the demand for raw materials is higher. The scarcity of resources had led the industry to treat solid waste as new source of materials. Integrated Solid Waste Management was helpful to establish scale economies and reach processes efficiencies for waste treatment. Such linear process cannot meet the challenges of Circular Economy approach and Sustainable Development Goals. Circular Waste Management (CWM), includes recovery or reuse, materials be returned to cycle, with advantages to the reduction of cross-media transfer of contaminants. CWM requires to answer the challenges: making use of products more efficient and bringing end-of-life products to the economy sustainably. The best systems analysis tools to promote CWM like life cycle assessment, cost-benefit analysis, multicriteria decision making, operation research methods including reverse logistics, ecodesign tools, material flow analysis. It is important to encourage a new paradigm of waste management, where the materials loops are closed and waste generated is minimized. ThE SI intends to draw together current progress in the CWM with a sustainable background.

Guest Editor

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