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## Solid waste characterization and chemical analysis-A case study: Review

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Solid waste (SW) generation is considered a major issue with the increase of urbanization and industrialization. In order to limit the generation and utilization, its management is considered to be a key. Solid Waste Management (SWM) systems need to be established. For proper management, characterization and chemical analysis are fundamental. This case study focuses on methods that are widely used to characterize the SW on the basis of its types, subtypes, destructive analysis (DA) and non-destructive analysis (NDA) also chemical analysis on basis of its composition, components, and properties. One of the most common techniques used for analysis is Scanning Electron Microscopy (SEM). The study also showed the comparative analysis of SWM systems, expenditure and population growth between the USA, China, and Pakistan. China is considered to be a most populated country with the highest expenditure on SWM while the USA has a large number of waste plants but due to less attention on SWM infrastructure, waste generation is high and last but not the least Pakistan is considered to have very negligible attention on SWM system. There is no proper system for the management of solid waste treatment.

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