

DEVELOPING SUSTAINABLE MEASURES TO RESTORE FLY ASH CONTAMINATED LANDS: CURRENT CHALLENGES AND FUTURE PROSPECTS

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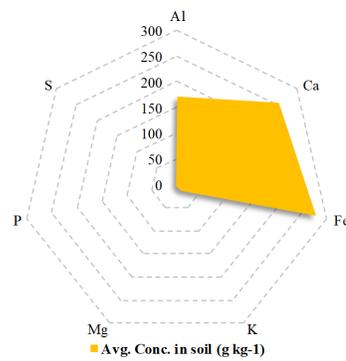
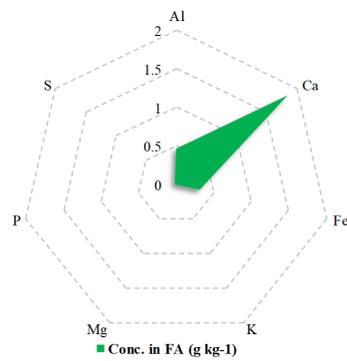
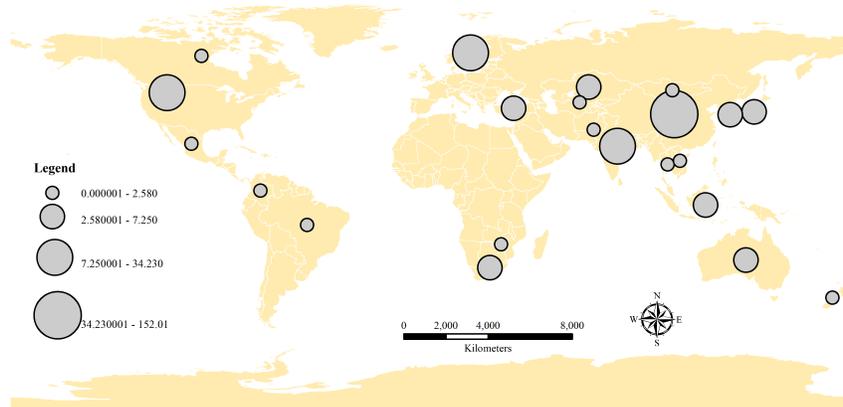
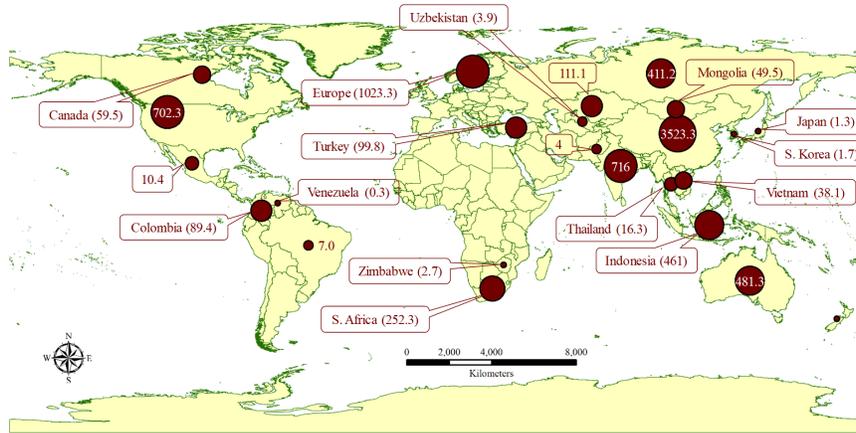
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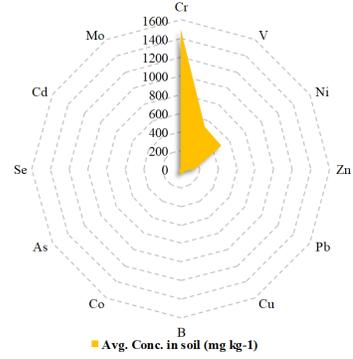
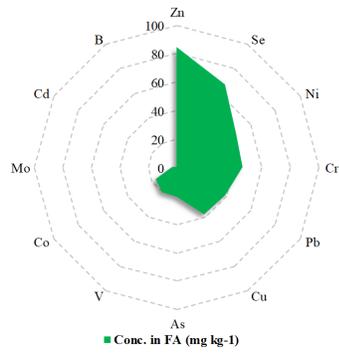
Abstract

Land degradation is one of the major global environmental issues that need serious attention. The land itself is a complex system regulating myriads of processes and perturbation in anyone these would certainly lead to the stimulation of land degradation. Among these, fly ash (FA) dumping is one of the common-practices, which has been adopted to overcome land-use disruption and other health hazards. However, this practice has become a driving factor for FA-induced land degradation. Therefore, in purview to tackle this issue, the present article is aimed to identify and suggest plausible sustainable practices to restore and manage FA contaminated sites. It preliminarily deals with the systematic exploration and identification of FA-based and associated contaminated lands via geospatial technology with a brief focus on monitoring its different contaminant profiles in the FA and soil systems. Moreover, the article emphasizes identifying the potential local plant species in the FA-contaminated regions to understand the local people's demands. Following this, it would suggest the major sustainable approaches to expedite the restoration of FA contaminated lands along with the key highlights of their bottlenecks, while the ground implementation. Nevertheless, the article aimed to unravel the recommended prospects to address those bottlenecks to develop an efficient restoration enterprise during the Decade on Ecosystem Restoration (2021-2030).

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