

Reuse of waste material for the plant cultivation in the closed ecology experiment facilities

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In order to stabilize and analyze carbon circulation in a combined ecological system, including plants, animals, humans, it is necessary to establish a steady food production system based on plant cultivation in the Closed Ecology Experiment Facilities (CEEF).

Therefore, the circulation system reuses air, water and minerals. The one of objectives of this study is to establish how to extract some minerals from waste materials. And another of objectives of this study is to reuse extracted some minerals to plant cultivation. The result of a preliminary experiment showed that the potassium was extracted from ash effectively.