生化工程专栏

Composting of Disposal Organic Wastes: Resource Recovery for Agricultural Sustainability

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摘要 One of the major problems of agricultural soils in the tropical regions of the low organic matter content. Because of the hot and humid environment, the matter (SOM) is minimal due to rapid decomposition. Composted organic mate applied on agricultural fields as an amendment to provide nutrients and enhal matter content for improving the physical and chemical properties of the cultiv addition land application of composted material as a fertilizer source effective wastes that otherwise are buried in landfills. In our soil program at the Univer we are evaluating the use of organic material as an alternative to synthetic fe is to develop management strategies and use available resources for improvir production while conserving resources and preserving environmental quality. project is designed to improve soil fertility status by using composted organic assessing how the nitrogen and other essential nutrients contribute to long-t and crop productivity without application of synthetic fertilizers. In our pilot pr is produced from wood chips, grinded typhoon debris mixed with animal manu shredded paper and other organic wastes. Mature compost is then applied or rates of 0, 5, 10 and 20 t/ha as a soil amendment on the eroded cobbly soils Guam. Corn is planted and monitored for growth performance and yield. The e application of composted material on the SOM content and overall soil quality being evaluated in this pilot study.

关键词 <u>composting,resource recovery management,soil improvement,waste</u> <u>disposal,agricultural sustainability</u> 分类号

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