

研究报告

不同微生物菌剂处理对猪粪堆肥中氨挥发的影响

王卫平¹; 汪开英²; 薛智勇¹; 朱凤香¹

¹浙江省农业科学院环境资源与土壤肥料研究所, 杭州 310021; ²浙江大学农业生物环境工程研究所, 杭州 310029

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摘要

研究不同微生物复合菌剂及添加比例对猪粪与木屑混合(鲜重比为鲜猪粪: 木屑9: 1)堆肥过程中NH₃挥发的影响.结果表明, 在堆肥过程中, NH₃挥发主要产生在堆肥前期15 d的升温和高温期, 添加3‰的微生物复合菌剂1、2和3对猪粪堆肥中NH₃挥发都有一定的抑制作用, 减轻氮素损失与堆肥恶臭, 添加5‰复合菌剂1有显著抑制作用 (P <0.05).

关键词 [猪粪](#); [堆肥](#); [微生物菌剂](#); [氨](#)

分类号

Effects of microbial agents on NH₃ emission during pig manure composting

WANG Weiping¹, WANG Kaiying², XUE Zhiyong¹, ZHU Fengxiang¹

¹Institute of Environment Resources and Soil Fertilizer, Zhejiang Agricultural Academy of Sciences, Hangzhou 310021, China; ²Institute of Agricultural Bio Environment Engineering, Zhejiang University, Hangzhou 310029, China

Abstract

This paper studied the effects of different mixed microbial agents on the NH₃ emission during pig manure-sawdust (9: 1, fresh w/w) composting. The results showed that the NH₃ emission was mainly occurred at the high temperature (>50 °C) period during the early 15 days of composting. The addition of 3‰ mixed microbial agents 1, 2 and 3 had a definite inhibitory effect on the NH₃ emission, and the effect of 5‰ mixed microbial agent 1 was significant (P <0.05).

Key words [Pig manure](#) [Composting](#) [Microbial agent](#) [NH₃](#)

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