

猪粪和稻草对铬污染黄泥土生物活性的影响

张亚丽;沈其荣;王兴兵;孙兆海

南京农业大学资源与环境科学学院农业部作物生长调控重点实验室 江苏南京210095

Effect of organic manure on biological activities of Cr-contaminated soil

ZHANG Ya li; SHEN Qi rong; WANG Xing bing; SUN Zhao hai *

College of Resou. and Envir. Sci. and MOA Kay Lab of Plant Growth Regulation, Nanjing Agric Univ.; Nanjing 210095; China

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摘要 通过培养试验研究了猪粪和稻草对Cr污染黄泥土生物活性的影响。结果表明, Cr污染土壤的生物活性下降。施用有机肥料后, 土壤有效态Cr含量降低, 降幅约为30%, 而微生物量C、N、P含量和脲酶、过氧化氢酶的活性增高, 增幅为15%~273%。微生物量C、N与土壤有效态Cr之间有显著的负相关关系, 可作为污染土壤的生物指标。

关键词: 猪粪 稻草 Cr污染黄泥土 生物活性 猪粪 稻草 Cr污染黄泥土 生物活性

Abstract: Incubation experiment was carried out to study the effect of application of pig manure and rice straw on the biological activity of Cr-contaminated permeable paddy soil. The results showed that soil biological activity declined significantly after contaminated by Cr. However, the application of organic manure made the content of chemical available Cr decreased significantly, the decreased percentage of which was about 30% while the content of soil microbial C, N and P and the activity of urease and catalase increased, ranging from 15% to 273%. There was negative correlation between chemical Cr and the content of soil microbial C, N, indicating that the content of microbial C, N could become an index of Cr-contaminated soil.

Keywords:

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