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#### 生态农业科学

农业生态系统中氮素反硝化作用与N2O排放研究进展

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摘要:

硝化-反硝化作用是土壤氮素循环的两个重要环节,在其生物化学过程中产生的N2O和N2,不但会引起氮素损失,降低氮肥利用率,还会增加大气中的温室气体浓度,带来环境危害。因此,无论是从农业的观点,还是从环境的角度看,硝化反硝化作用已引起人们越来越多的关注。本文根据近年来国内外的文献资料,阐述了各个农业生态系统的硝化反硝化损失和N2O排放量,介绍了减少硝化反硝化损失和N2O排放的措施,并对今后的研究工作提出建议。

关键词: N2O排放量

Progress in the Studies of Nitrogen Denitrification and N2O Emission in Agroecosystem

#### Abstract:

Nitrification - denitrification are two important processes in soil nitrogen cycle. N2O and N2, generated from their biochemical processes, which not only will cause nitrogen losses and reducing nitrogen use efficiency, but also increase the concentrations of greenhouse gases, and bring about environmental damage. Therefore, nitrification and denitrification has attracted more attention, whether from an agricultural point of view, or from an environmental point of view. Based on the reports at home and abroad in recent years, this paper describes N loss from denitrification and N2O emissions on various agro-ecological system, introduces some measures to reduce N loss from denitrification and N2O emission, and the future research directions to be carried out are also suggested.

Keywords: Nitrous oxide

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