

研究简报

稀土元素对土栖动物群落结构的影响及对蛴螬的生态毒性

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摘要

采用土施法和OECD推荐的滤纸接触法研究了稀土($\text{ReCl}_3 \cdot 6\text{H}_2\text{O}$)对豆田土栖动物群落结构的影响以及稀土对蛴螬的生态毒性.结果表明,对照与各处理之间动物种类数、主要动物种群数量、多样性指数差异均不显著;急性和慢性毒性试验表明,对照与各处理间的死亡率差异不显著.在稀土有效施用范围内,稀土对蛴螬的生态毒性很小,不会明显改变蛴螬种群结构.

关键词 [稀土元素](#) [土栖动物](#) [群落结构](#) [蛴螬](#) [生态毒性](#)

分类号

Effects of rare earth elements on soil fauna community structure and their ecotoxicity to *Holotrichia parallela*

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Abstract

By the method of OECD filter paper contact,this paper studied the effects of applied rare earth elements on soil fauna community structure and their ecological toxicity to *Holotrichia parallela* in bean field.The results showed that there were no significant differences between the treatments and the control in soil fauna species,quantity of main species,and diversity index.Urgent and chronic toxic test showed that the differences between the treatments and the control were not significant.It was suggested that within the range of test dosages,rare earth elements had little ecological toxicity to *Holotrichia parallela*,and did not change the soil fauna community structure.

Key words

[Rare earth elements](#) [Soil fauna](#) [Community structure](#) [Holotrichia parallela](#)
[Ecotoxicity](#)

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