

研究报告

## 城市化对苏州地区土壤多样性的影响

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### 摘要

利用1984、1995、2000和2003年4期TM遥感资料,对苏州地区快速城市化背景下土壤多样性时空动态变化特征进行了定量分析和研究.结果表明,苏州地区粘壤质普通筒育水耕人为土和粉砂粘壤质普通筒育水耕人为土分布面积最广,近20年来面积比重分别减少了5.11%和3.14%,是苏州地区城市扩张用地的主要土壤类型;金阊区、平江区、沧浪区是苏州地区城市扩张的中心,3个时期中土壤多样性变化都很激烈,其中平江区的粘壤质普通筒育滞水潜育土、太仓市的砂质石灰性斑纹湿润正常新成土90%以上的土壤表面已经变为城镇用地,濒临消失.城市化对土壤多样性的影响极显著,是苏州地区土壤多样性变化的一个首要驱动因子.

关键词 [苏州,城市化,土壤多样性,时空特征](#)

分类号

## Impact of urbanization on pedodiversity in Suzhou area

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### Abstract

Based on the TM remote sensing information of 1984, 1995, 2000 and 2003, this paper quantitatively analyzed the spatial-temporal dynamic changes of pedodiversity in Suzhou area under quickly growing urbanization. The results showed that in this area, clay loamy typic-hapli-stagnic anthrosol and fine sand clay loamy typic-hapli-stagnic anthrosol were the predominant soil types, but their distribution area decreased 5.11% and 3.14%, respectively, in latest 20 years. Jinchang, Pingjiang and Canglang Districts were the focuses of urbanization in Suzhou area, where pedodiversity changed furiously. During 1984~2003, more than 90% of the clay loamy typic-hapli-stagnic gleyosol in Pingjiang District and sandy calcareo-mottlic-udi-orthic primosol in Taicang City were almost disappeared, and changed into residential area. Statistical analysis showed that urbanization had a significant impact on pedodiversity, and was the prime driving force on the pedodiversity in Suzhou area.

**Key words** [Suzhou area](#) [Urbanization](#) [Pedodiversity](#) [Spatial-temporal characteristics](#)

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