

综合评述

亚热带山区红壤地碳平衡研究进展

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摘要

碳平衡研究日益成为全球变化与地球科学研究领域的热点问题.亚热带红壤区是我国发展粮食作物和各种热带、亚热带经济作物与林木的重要基地, 因该区特殊的生态地理位置, 在我国碳平衡研究中占有重要地位.本文论述了亚热带山区红壤地碳平衡研究的重要性, 对碳平衡研究中植被、凋落物、土壤碳库和土壤呼吸的研究现状和主要结论等进行阐述, 总结了碳平衡的综合研究方法, 并对亚热带山区红壤地碳平衡研究中存在的问题和今后的发展方向进行探讨.

关键词 [山地红壤](#) [碳平衡](#) [凋落物](#) [土壤呼吸](#)

分类号

Research advances in carbon balance in subtropical hilly red soil

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Abstract

Carbon balance is becoming a hotspot in global change and geo-science studies. The subtropical hilly red soil area in China is an important production base of foodstuffs and tropical and subtropical economical crops and woods, and also, is very important in carbon balance research because of its special ecological and geographic characters. This paper discussed the significance of subtropical hilly red soil in carbon balance, and reviewed the related research advances and main results, including plant, litterfall, soil carbon storage, and soil respiration etc. The integrative research methods of carbon balance were summarized, and some issues and development directions in carbon balance research were discussed

Key words [Hilly red soil](#) [Carbon balance](#) [litterfall](#) [Soil respiration](#)

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