

What elements can enhance carbon storage effect

Abstract Soil microorganisms, by actively participating in the decomposition and transformation of organic matter through diverse metabolic pathways, play a pivotal role in carbon ...

It is noteworthy that if carbon capture and storage technologies are not taken into consideration, the cost of lowering emissions will increase drastically by 140% (Kearns et al., 2021). ...

Besides the adoption of some agronomic practices to minimize soil organic carbon (SOC) outputs and maintain their stocks, the application of organic amendments to agroecosystems ...

The LERI of high-level and carbon storage patterns showed similar trends. The degradation of local terrestrial ecosystems can primarily be due to the widespread use of ecological ...

It is primarily an alloy composed of iron (Fe) and carbon (C), with the addition of various alloying elements to enhance its properties. The unique combination of strength, ductility, and ...

Karst reservoirs can significantly enhance the effect of biological carbon pump (BCP), a crucial process for carbon sequestration, water purification, and eutrophication mitigation. However, ...

Greenhouse gases in the atmosphere retain heat from the Sun, allowing plants and animals to flourish. As the amount of these gases change, so does the atmosphere's effectiveness at trapping heat. The ...

Fires reduce plant biomass, which should deplete soil carbon stocks, but a review of recent literature shows that fires also slow decomposition rates and increase soil organic matter ...

This study investigated how developed regions in subtropical and tropical areas might increase carbon storage and achieve carbon neutrality, using Guangdong Province in South China as ...

Meanwhile, carbon storage in urban greenspaces has exhibited an increase of 6.90 Tg C and offsetting 49.70% of the carbon loss induced by direct urbanization effects. However, the ...

In contrast to these natural environmental factors, land-use change has a direct impact on OC storage, which can obscure the effects of climate, geology, and geochemistry 4.

Here, we suggest a shift away from a main focus on vegetation carbon stocks, towards inclusion of whole ecosystem carbon persistence, in future assessments of large herbivore effects on ...

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However, the combined effects of MPs and warming on carbon storage and nitrogen assimilation in algae and the molecular mechanisms are largely unknown. Exploring the changes in ...



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