Special Issue

Carbon Farming: Agriculture's Solution to Climate Change

Message from the Guest Editor

Carbon serves as a foundational element in our bodies, as well as in the plants and animals, that we depend upon for sustenance. The carbon components of soil, referred to as "organic matter", bond with nutrients and water to make them available for plants. These are essential to plant growth. The higher level of organic matter, the more fertile the soil. "Carbon farming" encompasses land management and conservation practices that accelerate and enhance the capacity of soil to retain carbon. It is a farm approach that is used to optimize carbon capture through practices that improve the rate at which carbon dioxide is removed from the atmosphere and stored in plants or soil organic matter. Carbon farming, also known as carbon sequestration, is a system of agriculture management that accumulates and stores greenhouse gases and reduces gases that are released into the atmosphere. With the right methods, in the long term, carbon can be sequestered in soils, for decades, centuries, or more.

Guest Editor

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