Special Issue

Effects of Agriculture on Soil Properties that Support Climate Change Adaptation and Mitigation

Message from the Guest Editor

Many agricultural practices negatively affect soil health, with estimates that one-third of Earth's soil is severely degraded by agriculture. Some practices restore soil health, however, and are recognized as crucial for offsetting greenhouse gas emissions and creating climate-resilient production systems. Recent decades have seen the development of many practices, systems, and products that claim to improve soil health and productivity, but the large number of environmental and cultural variables make broad evaluation difficult. For this Special Issue, we seek submissions that report the effects of practices and sets of practices on soil health, particularly with respect to climate change mitigation and adaptation. Restorative agricultural practices include: 1) reduced disturbance systems that strive to conserve and accumulate soil organic matter; 2) cropping systems that strive to increase biodiversity and maximize soil cover; 3) soil amendments that directly or indirectly strive to increase soil organic matter and soil organisms; and 4) combinations of those practices.

Guest Editor

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