

Special Issue

Sustainable and Suitable Ecological Management of Forest Plantation

Message from the Guest Editors

Climate change and forest ecosystems are closely connected. Forests and forest plantations can act as a carbon sink, as they can accumulate atmospheric CO₂ as carbon in vegetation and soil. However, human activities that impact land use and forest characteristics can alter the carbon cycle between the atmosphere and terrestrial ecosystems, leading to increased CO₂ emissions. Since forest plantations can act as a carbon sink, they are included in international policies to address climate change through both mitigation and adaptation processes; it is necessary to favor the connection of these two aspects. Reforestation can play this dual role for forest ecosystems. The sustainable and suitable ecological management of reforestation helps with pursuing adaptation responses, as it maintains the state of forests and guarantees ecosystem services, especially on a local scale, reducing vulnerability to climate change and biodiversity loss. Furthermore, it also helps with regulating water flow and water resources through their hydrological ecosystem services.

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