Special Issue

Carbon Cycle in Forest Ecosystems

Message from the Guest Editor

The continuous flow of carbon from land and water through the atmosphere and living organisms makes up the global carbon cycle. It contains reservoirs where carbon is stored and features dynamic flows of carbon between the carbon pools. Forests are some of the largest carbon reservoirs on Earth, and the storage and release of carbon from these have a significant impact on the global carbon cycle. Forests absorb carbon from the atmosphere through carbon sequestration, which describes the uptake of carbon through photosynthesis. This carbon is then used to create new plant biomass and release carbon back to the atmosphere as dead plant matter decays. Forest succession, from young stand to old stand, and natural and anthropogenic disturbances, such as forest fires, landslides, pest outbreaks, and forest management, can affect the carbon cycle in forest ecosystems. We encourage studies from all fields, including experimental studies, monitoring approaches, and models to contribute to this Special Issue to promote knowledge and adaptation strategies for the preservation, management, and future development of forest ecosystems.

Guest Editor

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