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Special Issue

Effects of Forest Biodiversity and Ecosystem under Global Climate Change

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Dear Colleagues,

Forests are essential for maintaining biodiversity and provide critical ecosystem services that support life on our planet. Forests contribute to carbon sequestration, mitigating climate change, and regulating water cycles, ensuring a sustainable clean water supply.

The changes in the hydrological cycle by human development and the gradual increase in freshwater uses in the last century are key to understanding the gradual increment of temperature and their gradients in some regions. These variations pose significant threats to forest ecosystems and the delicate balance of biodiversity they harbour. Changes in temperatures and precipitation patterns and increased frequency of extreme weather events are all impacting forests worldwide. Episodes of strong winds or fires can transform a forest in a little time space and have a profound impact over time. These changes can lead to shifts in forest structure and composition, disrupting the habitats of numerous plant and animal species and favouring the development of pests. As a result, many species face the risk of habitat loss, reduced population sizes, and even extinction.

Keywords:

- Forest Biodiversity
- Ecosystem Services
- Global Climate Change
- Forest Management
- Resilience
- Human Well-being

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