

Special Issue

Forest Conservation: Natural Resources and Biotechnological Strategies

Message from the Guest Editor

Forest conservation is vital for maintaining biodiversity, mitigating climate change, and ensuring the sustainable use of natural resources since forests deliver essential ecosystem services such as carbon sequestration, water regulation, and soil stabilization. Despite the importance of forests, deforestation driven by agriculture, logging, and infrastructure development continues to degrade forest ecosystems globally. Native forests, especially those in less-publicized regions such as dry forests, savannas, and transition zones, often receive limited media and scientific attention, despite harboring unique biodiversity and cultural value.

Preserving these ecosystems requires not only field-based conservation efforts but also bibliometric analyses to understand research trends, knowledge gaps, and regional disparities in scientific focus. Biotechnological strategies, including genetic engineering, micropropagation, and omics-based tools, can aid in restoring native tree species and enhancing forest resilience. Additionally, technologies such as remote sensing and GIS contribute to better monitoring and management.

Guest Editor

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Message from the Editor-in-Chief

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