

Special Issue

Clear-Cutting in Modern Forestry: New Approaches and Latest Findings

Message from the Guest Editors

The complete destruction of the tree layer radically changes the ecosystem, affecting soil conditions and ground cover. Plant communities on clear-cuttings at the initial stages can serve as good model objects for biodiversity and ecology studies, due to the patterns of their formation. The natural restoration of forests can take hundreds of years. To restore the forest stand, it is necessary to plant high-quality seedlings and provide them with sufficient care. Although the physiological and biochemical mechanisms of undergrowth adaptation to environmental conditions and cutting approaches remain poorly studied, this field has a high innovative potential.

This Special Issue is aimed at synthesizing research materials in the plant communities after continuous deforestation, including formation patterns, comparative analysis of the biodiversity of deforestation plots and forest stands at different stages, the methods of artificial reforestation, and the promotion of natural forest regeneration. The changes in the structure and properties of soils and the adaptation mechanisms of young woody plants in the main forest-forming species in clear-cutting are of special importance.

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