

Special Issue

Forest Biomass Utilization: Implications for Global Sustainable Development

Message from the Guest Editor

Forest biomass utilization has significant implications for global sustainable development across environmental, economic, and social dimensions. Utilizing forest biomass sustainably presents both opportunities and challenges in the transition towards renewable and low-carbon energy sources. From an environmental perspective, responsible forest biomass utilization can contribute to mitigating climate change by substituting fossil fuels with biomass-derived energy, and/or using mass timber products as carbon sequestrers. Economically, forest biomass utilization creates jobs in the forestry, processing, and bioenergy sectors. On a social level, biomass utilization can enhance energy security and access, particularly in rural and remote areas where conventional sources may be limited. The main challenges include ensuring biomass extraction does not exceed forest regeneration rates, protecting biodiversity, and addressing land-use conflicts. This Special Issue aims to provide an overview of the most recent advances in the field of forest biomass and their applications in diverse areas, keeping in mind the concept of global sustainable development.

Guest Editor

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Message from the Editor-in-Chief

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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