

Special Issue

Forest/Urban Forest Systems under Climate Change: Carbon Dynamics, Ecological Functions, and Sustainable Management

Message from the Guest Editors

Currently, the impact of climate change on plant communities is a major potential threat to global forest plant biodiversity and plant ecological functions. However, the distribution and survival of species and ecological functions of forest/urban forest ecosystems under climate change have not been closely studied. Global climate change makes forests more important than ever before. Accurate estimation of forest biomass/carbon storage and monitoring of carbon dynamics are essential to simulate the global carbon cycle, quantify carbon flux, and achieve carbon neutrality goals. Advanced artificial intelligence and large amounts of remote sensing data provide powerful tools for accurately estimating forest biomass/carbon stocks and monitoring carbon dynamics. Innovative approaches, policy tools, and innovative digital approaches that explore the ecosystem services and economic value provided by forests are highly effective in achieving the sustainable development of forest ecosystems and can influence forest growth trajectories, promoting resilience and diversity.

Guest Editors

Dr. Junyuan Guo

College of Resources and Environment, Chengdu University of Information Technology, Chengdu 610225, China

Dr. Chao Huang

College of Environmental Science and Technology, Central South University of Forestry and Technology, Changsha, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Giacomo Alessandro Gerosa

Department of Mathematics and Physics, Catholic University of Brescia,
I-25121 Brescia, Italy

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