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Effects of Climate Change and Air Pollutants on Forest Tree Species

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Message from the Guest Editor

Forest tree species can be regarded as life-support equipment because they can provide the oxygen necessary for respiration to living organisms, alleviate global warming by the absorption and fixation of atmospheric CO₂, and purify a polluted atmosphere by the absorption and/or adsorption of air pollutants. However, anthropogenic emission of CO₂ and air pollutants into the atmosphere causes climate change, as well as adverse effects on many forest tree species all over the world. This means that we are turning off this life-support equipment by ourselves. For sustainable development, therefore, we must protect forest tree species against climate change and air pollution. This Special Issue is focused on the effects of climate change, such as elevated air temperature and atmospheric CO₂ concentration, and air pollutants, such as ozone, acid deposition, and aerosols on forest tree species, and case studies on relationships between climate change and/or air pollution and forests. I hope that this Special Issue will contribute, both to an increased awareness of climate change and air pollution problems, and to the protection of forest tree species against environmental stress.



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Special Issue



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