Special Issue

Forest Fuel Ecology: The Feedbacks among Fuels, Fire Behavior, and Vegetation

Message from the Guest Editor

There is a realistic presumption, that ongoing climate change will have negative impacts on the frequency and severity of wildfires in the future. The decreased soil and vegetation moisture content, higher drought index will be reflected in vegetation higher ignition potential. A key indicator to specify the actual fire ignition potential of vegetation, calculate the fire danger index, and to predict fire spreading, is the moisture content of fuel. To mitigate the wildfire severity, extent, and impact on forest, we need to understand the driving mechanisms of wildfire ignition, dynamics and the role of fuel and fuel management. The aim of this Special Issue is to promote knowledge of current research concerning forest fuel, including its qualitative (physical, chemical, fire), quantitative properties and further application of this data in fire behavior modelling, completed with knowledge and experience concerning fuel management strategies to be included in climate change adaptation strategies in all time and spatial scales. We encourage studies from all fields, including experimental studies, monitoring approaches and models in this Special Issue.

Guest Editor

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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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