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Plant Ecosystems in a Changing World: Monitoring, Modelling and Risk Assessment

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Message from the Guest Editors

The main objective of this Special Issue is to discuss different approaches to bridge the knowledge gaps in different scientific domains (air pollution, deposition, climate change, impacts in terms of health, yield, and biodiversity loss) in order to (i) translate observations and predictions into future scenarios; (ii) improve understanding of interaction and feedbacks between climate change, air pollutants, and effects upon plant ecosystems; (iii) quantify the ecosystems responses to air pollution and changing climate conditions; and (iv) provide risk maps for plant ecosystems at regional and local scale.

This Special Issue will deal with monitoring and modelling of air pollution and climate change effects on plants, with a strong focus on emerging research needs for risk assessment. Papers which exclusively deal with any aspects of tropospheric ozone or other air pollutants (physics–chemistry) are also welcome.

Deadline for manuscript submissions:
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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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