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Meteorological Conditions of Temperate Zone Fruit Production

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Deadline for manuscript submissions:
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Message from the Guest Editors

The geographical extent of fruit production is mostly determined by the range of climatic suitability. Though fruits are perennial plants, integrating meteorological effects for many years, critical weather and climate extremes may cause significant drawbacks in the quantity and quality of yield in the future.

This Special Issue is aimed at comprehending the effects of weather and climate on fruit yield examining the three following aspects: (i.) How can we characterize the geographical extent of the various fruits by meteorological variables or indices? (ii.) What kind of meteorological extremes cause significant harm to the quality and quantity of fruit yield in the various regions of temperate latitudes? (iii.) How do long-term climate changes modify fruit production, based on empirical analysis and model simulations?

In addition to finding direct answers to these questions, several further aspects can be tackled by papers, such as the effects of weather on pests, diseases and weeds of fruits; direct effects of CO2 concentration increase on fruit yield; results of spontaneous and managed adaptation; etc.

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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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