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Climate Change Impacts and Adaptation Strategies for Sustainable Viticulture and Wine Industry

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Message from the Guest Editors

The effects of climate change pose a severe challenge to viticulture and the winemaking sector worldwide. The projected changes of regular weather patterns in terms of intensity and periodicity over the growing cycle are already increasing the frequency of extreme weather events, compromising the sustainability of grapevine growth and production. The evolution of viticultural and winemaking techniques has allowed researchers and winegrowers to combine scientific, applied, and cultural knowledge targeted to multiple threats by developing short- and long-term strategies to cope with yield and quality losses. These strategies comprise multiple tools, such as soil and canopy management practices, precision viticulture, and the winemaking process optimization to promote a sustainable balance between grape production, quality, and vine development and physiological performance. We welcome submissions of interdisciplinary research concerning the impacts of climate change and sustainable adaptation strategies for viticulture and wine industry under applied contexts. We intend for articles presented in this Special Issue to be useful for a broad and diverse group of readers.

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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