

Special Issue

Interactions Between Air Quality and Natural Ecosystems

Message from the Guest Editors

This Special Issue aims to provide a comprehensive platform for advancing knowledge on the bidirectional interactions between air quality and natural ecosystems. We welcome original research articles, reviews, and case studies that explore (i) ecosystem contributions to air pollutant emissions and removals; (ii) the impacts of air pollution on ecosystem health, productivity, and services; (iii) the modeling and monitoring of ecosystem–atmosphere interactions; (iv) feedback mechanisms between air quality and ecosystem processes under climate change scenarios; and (v) innovative mitigation and management strategies that address both air quality and ecosystem sustainability. The purpose of this Special Issue is to foster interdisciplinary research that bridges atmospheric sciences, ecology, environmental chemistry, and land management. Contributions that incorporate novel methodologies (e.g., remote sensing, machine learning, coupled models) or address knowledge gaps in vulnerable regions are particularly encouraged.

Guest Editors

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About the Journal

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!

Editor-in-Chief

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