Special Issue

Innovative Solutions for Air Quality Monitoring and Assessment in Environmental Systems

Message from the Guest Editors

Topics in this special issue include the development of advanced sensors for detecting pollutants such as particulate matter, ground level ozone, and volatile organic compounds (VOCs). The issue also covers the application of artificial intelligence and machine learning to refine air quality models, innovative sampling techniques, real-time monitoring systems, and remote sensing technologies for assessing air pollution at various scales. Additionally, the issue will feature research on understanding the interactions between pollutants and various environmental systems, as well as impact assessments. Reflecting global efforts to achieve net-zero emissions, this Special Issue aims to enhance our understanding of pollutant dynamics and provide evidence-based insights for effective policy and management practices. Researchers and practitioners are invited to submit their original research, reviews, and case studies. By highlighting recent advancements, this Special Issue strives to accelerate progress towards cleaner air and sustainable solutions in the face of evolving environmental challenges.

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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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