Special Issue

Physical and Chemical Characterization of Particulate Matter: Ambient, Personal, and Indoor Perspectives

Message from the Guest Editors

Particulate matter (PM) is a complex mixture of airborne particles varying in size, composition, and origin, with significant implications for environmental and human health. This Special Issue aims to advance the understanding of PM from various exposure settings. This Special Issue welcomes original research articles and reviews that explore ambient, indoor, and personal PM exposure, focusing on both physical characteristics, such as mass concentration and particle size distribution, and chemical composition, including heavy metals, polycyclic aromatic hydrocarbons, carbonaceous components (organic and elemental carbon), and other toxic substances. Emphasis is placed on studies conducted in developing regions, such as Southeast Asia and Africa, where unique sources, environmental conditions, and health impacts warrant further investigation. This Special Issue also encourages contributions that leverage novel sampling techniques, innovative analytical tools, and interdisciplinary approaches to assess the size-segregated behavior and health implications of PM in diverse settings.

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Deadline for manuscript submissions

31 December 2025

Atmosphere

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.9

mdpi.com/si/225926

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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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