Special Issue

Atmospheric Pollution in Mining Areas

Message from the Guest Editor

Mining activities are fundamental to a thriving society. However, mining operations can cause air pollution at every stage. Both above-ground and underground mining operations generate air pollution. Abandoned mines are also a recurrent problem . Therefore, comprehensive understanding of these processes is essential to assess the extension and effects of air pollution around mining areas. This Special Issue aims to present research on issues related to air pollution in mining areas (active, abandoned or remediated). Research results, practical experiences, alternatives and new approaches are welcome, dealing with (but not limited to) the following: i) air pollutants and their sources; ii) air quality monitoring; iii) modeling dispersion, transport and fate; iv) innovative techniques and emission-management systems; v) life cycle assessments of mining and metallurgical processes; vi) applications of machine learning models to reduce emissions; vii) the influence of climate changes on air quality; viii) occupational and environmental exposure; ix) environmental risk assessment; and x) socioeconomic issues related to air quality in mining areas.

Guest Editor

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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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