Special Issue

Future Energy Technologies and Photochemical Smog Formation

Message from the Guest Editor

Air pollution and climate change that are mainly associated with emissions from the existing fossil fuel-based energy systems represent the world's most pressing problems that need to be addressed immediately to prevent substantial irreversible change in our environment. Synergies between air pollution and climate change are known to be the greatest threats to the environment but can also affect the economic and political stability of the world. The transition to new energy systems that consists of a combination of high-efficiency low-emission technologies and renewables would change the types and the amounts of emissions to the atmosphere. The anticipated profiles of new emissions will change the existing ambient air reactivity that will affect the spatial and temporal occurrences of air pollution episodes. This Special Issue invites authors to submit research papers addressing topics related to the formation of photochemical smog and secondary aerosols due to the changes in emissions profiles and the ambient air-reactivity.

Guest Editor

Dr. Merched Azzi
Chief Research Scientist, CSIRO Energy, Australia

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!

Editor-in-Chief

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