Special Issue

Research on Indoor Air Cleaners for Particulate, Microbiological, and Gaseous Pollutants (2nd Edition)

Message from the Guest Editor

With the growing awareness of air pollution, air cleaners have been used for decades to improve indoor air quality. Although there has already been a lot of research on air cleaners, there are still many open questions: How can air cleaners be further optimized in terms of cleaning efficacy, power consumption, and noise emissions? How can long-term stability be determined and increased? How is the distribution of the cleaned air in a room affected by its geometry, furnishing, and occupancy? Can potential health benefits be tested with bioaerosols or demonstrated in toxicological or epidemiological studies? Scientific answers to these and further questions will at least deliver input for the current standardization project for indoor air cleaners of the International Electrotechnical Commission (IEC). Contributions from all applicable fields are welcome, whether they deal with technical aspects of the devices and filters, new measurement techniques or methods for assessing the efficacy, observations or simulations in real environments, or studies on the health effects of indoor air cleaners.

Guest Editor

Dr. Stefan Schumacher
Institut für Umwelt & Energie, Technik & Analytik e. V. (IUTA), 47229 Duisburg, Germany

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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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

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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