

Advances of Indoor Air Quality, Control and Health

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Message from the Guest Editors

Indoor air quality is closely related to human health. The reason is that many types of pollutants co-exist in indoor environments. Exploring the sources, releases, migration and distribution, sinks, and influencing factors of these pollutants is crucial for understanding indoor air pollution. In addition, the correlation between indoor air quality and health, as well as the study of control methods for indoor air pollution, are equally crucial for improving indoor air quality and protecting human health.

The main aim of this Special Issue is to explore the recent challenges and developments of indoor air quality, control, and health in buildings. Topics include, but are not limited to, the following: Indoor air quality (IAQ); Effect of outdoor air pollution on indoor environments; Source screening and emission; Sink effect; Transport and distribution; Volatile organic compounds; Semi-volatile organic compounds; Indoor pollution control; Ventilation and built environment; Air purification; Indoor air quality and health.

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Special Issue

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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