

Special Issue

Recent Advances in Polycyclic Aromatic Hydrocarbons Research: Occurrence, Fate, Analysis and Risk Assessment

Message from the Guest Editors

Recently, the World Health Organization categorized PM2.5 as a Group 1 contaminant (carcinogenic to humans) because of the PAHs and NPAHs contained within. Moreover, metabolites of PAHs and NPAHs, such as the hydroxylated and quinoid derivatives, act on the endocrine system while also initiating reactive oxygen species production. Therefore, it is important to further investigate how these components of PM2.5 may impact organisms at the cellular and biochemical levels. Many world regions, such as East Asia, are highly polluted with PAHs and NPAHs, given the recent rise in economic and industrial activity. However, the extent of pollution differs greatly depending on the energy sources used such as oil, coal, biomass, or natural gas. Therefore, understanding the linkage between source and the types of PAH congeners produced is an important first step in addressing these pollution problems. Papers addressing these topics are invited for this Special Issue.

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Deadline for manuscript submissions

closed (31 December 2019)



International Journal of Environmental Research and Public Health

an Open Access Journal
by MDPI

CiteScore 8.5
Indexed in PubMed



mdpi.com/si/25295

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Environmental Research and
Public Health*
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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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