

Special Issue

Analytical Methods for Volatile Organic Compounds (VOCs) Determination and Monitoring in Different Matrixes: Potentialities and Drawbacks of On-Line and Off-Line Methods

Message from the Guest Editors

Volatile organic compounds (VOCs) represent a wide range of volatile chemicals detectable in several environmental matrices (air, water, and soil) as well as in human biological fluids (exhaled breath, urine, feces, and sweat). VOCs are worthy of an in-depth analysis as they are ubiquitous and selected ones are of high concern from a toxicological point of view. For instance, atmospheric VOCs, emitted to a lesser to a greater extent by both biogenic and anthropogenic sources (i.e., traffic, industrial activities, gas service stations), may play a critical role in the chemistry of the lower atmosphere leading to the formation of high concern secondary pollutants with potentially harmful effects on the human health, ecosystems, and the environment. VOCs are also detectable inside enclosed environments (offices, private dwellings, public places) at concentrations up to ten times higher than outdoors because VOCs are emitted by a wide selection of building materials and finishing products (paints, sealants, etc.) as well as consumer products (cleaning and disinfection products among others) and as a result of human activities (smoking, cooking, candle and incense burning, etc.).

Guest Editors

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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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