

## 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

Dr. Alessia Di Gilio

Dr. Jolanda Palmisani

Dr. Gianluigi de Gennaro

### Deadline for manuscript submissions

closed (31 December 2022)



## International Journal of Environmental Research and Public Health

an Open Access Journal  
by MDPI

CiteScore 8.5  
Indexed in PubMed



[mdpi.com/si/73078](https://mdpi.com/si/73078)

*International Journal of  
Environmental Research and  
Public Health*

Editorial Office

MDPI, Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

[ijerph@mdpi.com](mailto:ijerph@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[ijerph](https://ijerph)





# International Journal of Environmental Research and Public Health

---

an Open Access Journal  
by MDPI

---

CiteScore 8.5  
Indexed in PubMed



[mdpi.com/journal/  
ijerph](https://mdpi.com/journal/ijerph)



## About the Journal

### 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.

*IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

---

### Editor-in-Chief

Prof. Dr. Paul R. Ward

School of Society and Culture, Adelaide University, Adelaide 5001,  
Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPlus / SciFinder, and other databases.

#### Journal Rank:

CiteScore - Q1 (Public Health, Environmental and Occupational Health)