Special Issue

The Emission and Effect of Volatile Organic Compounds (VOCs) at the Soil/Atmosphere Interface

Message from the Guest Editors

Volatile organic compounds (VOC) are formed in situ as products of atmospheric transformations, several studies highlighted the importance of the soil on the global balance of the VOCs. In fact, soils can act as both sources and sinks for VOCs. Soil VOC emissions depend on the properties of the soil and the type of land use. VOC emissions from soils can have a significant influence on ecosystem processes. The assessment of VOC emissions should therefore advance our understanding of the impact of soil VOC emission on climate. Soil also acts as a sink for ground-level ozone, But the mechanisms describing the ozone deposition are still poorly explored. The aims of this Special Issue are to investigate: VOC emissions and deposition on soil as a function of all the biotic and abiotic parameters; atmospheric chemistry involving VOCs emitted by soil; ozone deposition on soil and reactivity; aerosols emission and formation from soil. We encourage the submission of experimental studies as well as field observations and modeling approaches to contribute to this SI in order to promote knowledge of soil VOCs impact on the atmosphere and soil functioning.

Guest Editors

Dr. Raluca Ciuraru

Dr. Letizia Abis

Dr. Julien Kammer

Deadline for manuscript submissions

closed (30 June 2022)

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

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Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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