# **Special Issue**

## Understanding and Optimising the Use of Urban Plants in Managing Urban Air Pollution

### Message from the Guest Editors

Urban air pollution is a complex mixture of gases and particulate matter originating from a variety of sources, which then concentrates, disperses, or deposits from the atmosphere, according to the local climate, topography, urban structures, and vegetation. This Special Issue is seeking original, unpublished papers that advance our understanding towards the effective use of plants in reducing the concentration of pollution in urban atmospheres. We particularly welcome papers from empirical research, modelling, remote-sensing, urban planning, design and decision support tools, citizen science approaches, fundamental plant science, social sciences, and specific case-studies, which span a range of spatial scales. The aims of these collected works are to offer new insights towards the optimisation of species, planting designs, and effective spatial planning techniques for the effective deployment of vegetation to reduce air pollution in the urban environment.

### **Guest Editors**

Dr. Matthew Tallis School of Biological Sciences, University of Portsmouth, Portsmouth PO1 2DY, UK

#### Dr. Chiara Baldacchini

1. Department of Ecological and Biological Sciences (DEB), University of Tuscia, 01100 Viterbo, Italy 2. Institute of Research on Terrestrial Ecosystem (IRET), National Research Council (CNR), 05010 Porano, Italy

#### Deadline for manuscript submissions

closed (15 October 2020)



## **Environments**

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.7



mdpi.com/si/36766

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

mdpi.com/journal/

environments





## **Environments**

an Open Access Journal by MDPI

Impact Factor 3.7 CiteScore 5.7



environments



## About the Journal

### Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

### Editor-in-Chief

#### Prof. Dr. Sergio Ulgiati

 Department of Science and Technology, Parthenope University of Naples, Centro Direzionale, Isola C4, 80143 Napoli, Italy
School of Environment, State Key Joint Laboratory of Environment Simulation and Pollution Control, Beijing Normal University, No. 19 Xinjiekouwai Street, Beijing 100875, China

### Author Benefits

### **High Visibility:**

indexed within Scopus, ESCI (Web of Science), PubAg, AGRIS, GeoRef, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)

### **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.4 days (median values for papers published in this journal in the first half of 2025).