



Green Roofs, Green Walls, Urban Greenhouses and Hi-Tech City Landscape for Sustainability

Guest Editors:

Dr. Carlo Alberto Campiotti

ENEA, Department for Energy Efficiency (DUEE), Integrated Services Division for Territorial Development, Lungotevere Thaon di Revel, 76-00196 Roma, Italy

Prof. Dr. Carlo Bibbiani

Department of Veterinary Sciences, University of Pisa, 56124 Pisa, Italy

Dr. Arianna Latini

ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Via Anguillarese 301, 00123 Rome, Italy

Deadline for manuscript submissions:

closed (10 May 2024)

Message from the Guest Editors

Green plants have always been a design element in the architecture of buildings and the urban decoration of cities, but only recently has their contribution been revealed as very effective in reducing negative environmental impacts and energy costs due to air conditioning of buildings, enabling the utilization of spaces and surfaces otherwise not exploited in cities. The plant phenomena of photosynthesis and evapotranspiration are particularly useful during the hot seasons to reduce electricity consumption and CO₂ emissions due to the air conditioning of buildings since plant-covered surfaces provide shading and shielding of buildings. Thus, plant systems represent a natural solution to achieve the goals for energy reduction and environmental regeneration of buildings, particularly in cities. This Special Issue aims to involve scientists and experts from various research fields on the use of vegetation to promote energy saving, accelerate the decarbonization of cities, as well as reduce air pollution, thus transforming cities into sustainable and resilient ecosystems.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Luigi De Bellis

Department of Biological and
Environmental Sciences and
Technologies, Università del
Salento, Centro Ecotekne, Via
Provinciale Lecce Monteroni,
73100 Lecce, Italy

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, FSTA, and other databases.

Journal Rank: JCR - Q1 (*Horticulture*) / CiteScore - Q2 (*Horticulture*)

Contact Us

Horticulturae Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/horticulturae
horticulturae@mdpi.com
X@Horticul_MDPI