

Special Issue

Trends in Green Technologies for the Extraction of Bioactive Compounds

Message from the Guest Editors

Many of natural bioactive compounds are found in food waste and agricultural byproducts, which represent both a cost for the food industry and a potential negative impact on the environment. Therefore, the recovery of natural bioactive compounds from industrial food waste is a recent practice in producing fortified food, nutritional supplements or ingredients for pharmaceutical and cosmetic products. The current trend is to use ecofriendly techniques to extract bioactive compounds. Recently, emerging technologies considered “green” have been implemented using aqueous solutions and excluding organic solvents or energy-consuming methods. The derived extracts are particularly attractive since they not only reduce environmental pollution but also because they are free of contaminants which are potentially harmful to human health. This Issue will include studies reporting “green” techniques for the extraction of bioactive compounds from vegetable and animal matrices, characterization of extracts and their possible uses. Keywords

- green recovery
- functional food
- food byproducts
- bioactive packaging
- antioxidants
- polyphenols
- sustainability

Guest Editors

Dr. Fabiana Pizzolongo

Department of Agricultural Sciences, University of Naples Federico II,
Via Università 100, 80055 Portici, Italy

Dr. Stefania Filosa

Institute of Biosciences and BioResources-UOS Naples CNR, Via P.
Castellino, 111-80131 Naples, Italy

Deadline for manuscript submissions

closed (31 December 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/105662

Applied Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)