



New Insights into Natural Antioxidants in Foods

Guest Editor:

Dr. Małgorzata Muzolf-Panek

Department of Food Quality and
Safety Management, Poznań
University of Life Sciences, ul.
Wojska polskiego 28, 60-637
Poznań, Poland

Deadline for manuscript
submissions:

closed (20 June 2023)

Message from the Guest Editor

The broad range of natural antioxidant-active compounds results in various mechanisms of antioxidant action in food, such as free radical scavenging, scavenging of molecular oxygen, chelating transition metal ions, regeneration of other antioxidants (such as tocopherols), and finally, inhibition of pro-oxidant enzymes. Moreover, the final antioxidant effect in food is the result of various factors, such as concentration of antioxidants, interaction with food constituents, mode of incorporation (direct or indirect) into food products, and storage conditions.

The aim of this Special Issue is to bring new insights into natural antioxidants in food in terms of new sources of these compounds, extraction and purification techniques from various materials, new application strategies in food (biofilms, nanocapsules, etc.), interaction of natural antioxidants with other compounds in the food matrix (e.g., polyphenols–proteins interaction), and finally, development of mathematical models for describing changes to the antioxidant activity of food products during storage.

Keywords

- natural antioxidants
- plant extracts
- interaction of antioxidants with food constituents





an Open Access Journal by MDPI

Editor-in-Chief

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

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.

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, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

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

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

mdpi.com/journal/applsci
appls@mdpi.com
[X@Appls](#)