

## Special Issue

# Innovations in Enhancing the Oxidative Stability of Vegetable Oils: Insights from Research and Industry

### Message from the Guest Editors

The control of lipid peroxidation is one of the main challenges related to the utilization of vegetable oil. The replacement of oils containing saturated fatty acids (SFA) with oils rich in monounsaturated (MUFA) and polyunsaturated fatty acids (PUFA), considered healthier but more liable to oxidation, has further increased this problem. Oxidation is the main process responsible for the loss of oil quality, causing a decrease in the nutritional value of oil and generating toxic by-products and undesirable off-flavors, making food containing oils less acceptable to consumers. Some oils endowed with antioxidants are naturally protected, while others require exogenous antioxidants to protect them from oxidation. We invite you to contribute to this Special Issue with manuscripts presenting current insights from research and industry regarding the application of innovative techniques to enhance the oxidative stability of oil-based food products. The articles may address any technique employed to inhibit oil oxidation, such as the use of plant extracts or antioxidants alone or in combination with surface-active substances to increase antioxidant efficiency or antioxidant encapsulation.

---

### Guest Editors

Dr. Angela Fadda

Institute of the Sciences of Food Production, National Research Council, Traversa La Crucca, 3, 07100 Sassari, Italy

Dr. Daniele Sanna

Institute of Biomolecular Chemistry, National Research Council, Traversa La Crucca, 3, 07100 Sassari, Italy

---

### Deadline for manuscript submissions

20 January 2025



## Antioxidants

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.0  
CiteScore 10.6  
Indexed in PubMed



[mdpi.com/si/190884](https://mdpi.com/si/190884)

*Antioxidants*

MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[antioxidants@mdpi.com](mailto:antioxidants@mdpi.com)

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





# Antioxidants

---

an Open Access Journal  
by MDPI

---

Impact Factor 6.0  
CiteScore 10.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

It has been recognized in medical sciences that in order to prevent adverse effects of “oxidative stress” a balance exists between prooxidants and antioxidants in living systems. Imbalances are found in a variety of diseases and chronic health situations. Our journal *Antioxidants* serves as an authoritative source of information on current topics of research in the area of oxidative stress and antioxidant defense systems. The future is bright for antioxidant research and since 2012, *Antioxidants* has become a key forum for researchers to bring their findings to the forefront.

---

### Editor-in-Chief

Prof. Dr. Alessandra Napolitano  
Department of Chemical Sciences, University of Naples “Federico II”,  
Via Cintia 4, I-80126 Naples, 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), PubMed, PMC, FSTA, PubAg, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Chemistry, Medicinal) / CiteScore - Q1 (Food Science)