

## Special Issue

# Antioxidants in the Prevention and Treatment of Diseases

### Message from the Guest Editor

Reactive oxygen species (ROS) are highly unstable molecules, and they interact easily with cellular structures, generating oxidative stress (OS). ROS are key signaling molecules that play a substantial role in various disorders. Antioxidants have been widely used as remedies against OS, and studies have highlighted the significant therapeutic potency. Far from being just ROS scavengers, these biomolecules modulate various pathways, such as inflammation, cancer, metabolic disorders, cardiovascular diseases, and autoimmune diseases. Future studies elucidating the intricate influence of antioxidants on redox signaling pathways or investigating new antioxidant molecules with better bioavailability provide hope for the treatment of many OS-related diseases. This Special Issue aims to publish original research focused on various antioxidant biomolecules beneficial in OS-related pathologies. Papers are welcome to investigate the molecular interactions between antioxidant molecules and redox signaling pathways. Studies investigating newly identified antioxidant molecules or novel pharmacological forms are also encouraged.

---

### Guest Editor

Prof. Dr. Bogdan Sevastre

Faculty of Veterinary Medicine, University of Agricultural Sciences and Veterinary Medicine of Cluj-Napoca, 3-5 Calea Manastur, 400372 Cluj-Napoca, Romania

---

### Deadline for manuscript submissions

closed (20 June 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 6.1



[mdpi.com/si/66523](https://mdpi.com/si/66523)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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

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





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 6.1



[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), Ei Compendex, Inspec, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (Fluid Flow and Transfer Processes)