



Recent Advances in Applications of Nanoantioxidants

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Deadline for manuscript
submissions:

30 October 2024

Message from the Guest Editors

Antioxidants play a crucial role in protecting cells from damage caused by free radicals, which are unstable molecules known to contribute to the development of chronic diseases such as cancer and heart disease. Engineering antioxidants at the nanoscale introduces a range of potential advantages, including heightened bioavailability and stability, improved ability to traverse biological barriers and the possibility of enhancing antioxidant properties. These attributes make nanoantioxidants promising candidates for diverse applications across various sectors, including medicine, cosmetics, functional foods, etc. However, careful consideration of safety and toxicity implications is paramount before widespread implementation. This Special Issue aims to collect papers dealing with all aspects of antioxidants formulated as nanomaterials, in order to provide an updated overview of the state of the art, shedding light on their potential benefits, challenges and future directions.





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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.

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