

Special Issue

Advances in Analytical Chemistry in Antioxidant-Rich Functional Foods and Food Supplements

Message from the Guest Editors

The presence of antioxidant-rich functional foods from nature is very important, but it is also essential not to forget the impact of analytical chemistry. It is difficult to distinguish the major factors within the entire food chain, but the sample preparation step is quite important. Nowadays, different analytical techniques allow not only the discovery of new sources of antioxidants or new biological activities of natural products and new application possibilities but also the improvement or assurance of the safety and quality of functional foods or food supplements. This Special Issue invites original research and review articles covering different aspects related to natural bioactive compounds, functional foods, and food supplements, including (but not limited to) advances in extraction, purification, fermentation, and characterization techniques; new analytical methods and their validation; biological activities or their enhancement after biotechnological or physical treatment; chemometric methods and artificial intelligence applied in the search of antioxidants; and mechanisms of action of extracts, purified fractions, isolated compounds, and novel value-added products.

Guest Editors

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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

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