

Special Issue

Characterization, Application and Potential Health Benefits of Bioactive Compounds

Message from the Guest Editor

There are several thousands of naturally occurring herbs which constitute a rich source of phytochemical compounds. The major content is represented by phenolic compounds, representing one of the largest groups of natural products. To date, organic solvent extraction has been the main method used to extract phenolics. For their phytochemical characterization, the latest spectrophotometric and chromatographic techniques are used. Moreover, phenolic compounds are antioxidant substances capable of scavenging free radicals. This way, they protect biological systems against the harmful effects of oxidative processes on macromolecules and DNA, thereby reducing the risk of dreadful diseases. In addition to their antioxidant activity, phenolic compounds possess different biological activities that are attributed to their role in protection against human diseases.

- phenolic compounds
- LC-MS
- food industry
- health benefits

Guest Editor

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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