

Special Issue

Novel Developments in Chemical Characterization and Evaluation of Bioactive Compounds

Message from the Guest Editor

The exploration of bioactive compounds from natural sources continues to captivate researchers, driven by their remarkable benefits for health and potential applications across diverse fields. These compounds, including polyphenols, terpenoids, alkaloids, steroids, polysaccharides, fatty acids offer antioxidant, antibacterial, anti-inflammatory, and anti-cancer effects, as well as support for metabolic regulation and neurodegenerative disease prevention.

Renewed interest in traditional medicinal plants highlights the untapped potential of natural resources for producing value-added products. However, the complexity and diversity of bioactive compounds pose challenges in their extraction, processing, and evaluation, requiring advanced and innovative methodologies for precise chemical characterization and functional assessment.

This Special Issue focuses on cutting-edge developments in the identification, characterization, and application of bioactive compounds from natural sources.

Guest Editor

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Deadline for manuscript submissions

20 January 2027



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/229668

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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.

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