

Special Issue

Advances in Green Chemistry Processes: Isolation, Characterization and Applications of Plant-Derived Bioactive Compounds

Message from the Guest Editors

Growing public and consumer demand, accompanied by ongoing research efforts to investigate the qualities and prospective applications of nutraceutical substances, have led to an increased interest in processes related to bioactive compounds, phytochemicals, and functional foods. Also the processing of plants results in high amounts of bio-wastes (by-products) which causes economic and ecological deficit problems. In this context, the current Special Issue is open to scientific research submissions correlated to developing, upgrading and mathematical analyses obtaining plant-derived and health-promoting bioactive compounds. Characterization of these bioactives can provide functional benefits that play a crucial role in disease prevention caused by oxidative stress. A special emphasis will be given to eco-friendly technologies and processes with a deep insight into bioactivities characterization using analytical methodologies, in vitro assays, as well as in silico and in vivo studies to evaluate pro-healthy effects, including anti-inflammatory, antimicrobial, antioxidant properties and application safety, addressing potential final applications.

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