

Special Issue

Plant-Based Green Synthesis of Bioactive Nanoparticles: Innovation and Application

Message from the Guest Editors

In recent years, the focus of nanotechnology has shifted from classical synthesis methods to modern, “green” methods. These methods include techniques such as biosynthesis (the development of nanomaterials using a living organism, i.e., fungi), radiation-assisted synthesis, or phytosynthesis (the development of nanomaterials using plant extracts). Very promising, this latter method includes the use of a wide range of plant-related materials, such as pulp, core, peel from fruits, stem, root, petal flowers, and the leaves from plants or algae, while also employing a wide range of solvents. The goal of the present Special Issue is to focus on the influence of the extract composition and characteristics of the vegetal materials, relating to the properties of the obtained nanoparticles, as well as the most recent findings on the development and application of phytosynthesized nanoparticles. The extracts can be characterized through a wide range of phytochemical assays (qualitative and quantitative), as well as more appropriate, analytical methods (including HPLC or GC-MS).

Guest Editors

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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