

Special Issue

Nanotechnology Advances in Plant Science and Biotechnology

Message from the Guest Editor

The introduction of nanomaterials in many fields, such as medicine, food industry, cosmetics, electronics, has provided significant technological advances. Incredibly, a huge gap remains in the application of nanoscience to plants, yet, smart solutions are strongly demanded to make a step forward in plant protection and productivity. Efforts in this direction may have a breakthrough impact on agriculture, which is becoming increasingly smart, precise, sustainable, and focused on functional food. This Special Issue of *Plants* welcomes the submission of original papers, short communications, and reviews presenting current research and perspectives on phytonanotechnology. In particular, it intends to highlight key aspects of plant–nanomaterial interactions and related toxicity. Moreover, it will provide a description of engineered biomaterials conceived for smart applications to improve crop protection and productivity as well as to advance plant genetics and biotechnology. Finally, this Special Issue will shed light on the use of plants for the production of functional biomaterials, which may be a promising way toward a new concept of sustainable Nanotechnology.

Guest Editor

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About the Journal

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, 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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