



Interaction between Nanoparticles and Plants

Guest Editor:

Prof. Dr. Ewa Kurczyńska

Institute of Biology,
Biotechnology and
Environmental Protection,
Faculty of Natural Sciences,
University of Silesia in Katowice,
Jagiellońska 28, 40-032 Katowice,
Poland

ewa.kurczynska@us.edu.pl

Deadline for manuscript
submissions:

31 March 2021

Message from the Guest Editor

Dear Colleagues,

Nanotechnology is an innovative and a promising field of studies that is developing at a rapid speed today. The rapidly developing commercial and industrial usage of nanotechnology leads to increased emission of nanoparticles into the environment and inevitably to different effects on living organisms, including plants. Our knowledge of the influence of nanoparticles (NPs) on plants' development is relatively small, despite the various literature reports on the interaction of nanoparticles with plants. Therefore, this Special Issue aims to study the impact of nanoparticles at various levels of plant life (e.g., structural, ultrastructural, physiological, biochemical, molecular).

Topics for this Special Issue include but are not limited to the following:

- Nanoparticles and plant growth, physiology and biochemistry on the cell, tissue and organ level;
- Mechanisms and routes of entry of nanoparticles to the plants;
- Movement of nanoparticles within the plant on the cell, tissue, and organ level;
- Nanotoxicology;
- Green synthesis;
- Nanoparticles and plant–pathogen interaction.

