



Benefits and Potential Risks of Nanotechnology in Agricultural Systems

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Message from the Guest Editor

Nanotechnologies are experiencing great progress. Nanomaterials can completely influence the current view of agricultural production. The use of nanomaterials is also associated with a certain risk. Agricultural systems are very sensitive to external interventions. Therefore, it is necessary to look at nanomaterials critically. Many nanomaterials are used in animal nutrition and are subsequently excreted into the environment. They can form toxic compounds in the environment and damage biodiversity. Research may focus on influencing the soil microbiome in relation to agricultural production. Nanomaterials form different compounds in the soil. These compounds may behave differently in soils than the original material. The big question is the decomposition of nanomaterials in the environment. Nanomaterials can also significantly affect the quality of water resources, which can affect human and animal health. In studies, attention may be focused on tracing nanoparticles in the environment.

The Special Issue welcomes studies focusing on toxicity, microbiome effects, and life cycle monitoring of nanomaterials in agricultural systems. Studies can be in vitro or in vivo.





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Message from the Editor-in-Chief

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