

Interaction between engineered nanoparticle and soil system

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The soil system is one of the most important environmental compartments potentially contaminated by NPs. The approach involved the study of different models to evaluate the interaction between engineered NPs and the ecofunctional processes of soils. In particular the interaction has been studied on bare soil, to assess the influence of NPs on the functions of soil microbial communities; on the rhizosphere to evaluate the chronic toxicity and accumulation of NPs in edible tissues of crops; on earthworms, to verify the effects of NPs on the functionality of soil fauna.