Special Issue

The Transfer of Metal(loid)s in Soil–Plant Systems

Message from the Guest Editors

Soils may harbor elevated concentrations of metal(loid) micropollutants arising both from natural and/or anthropogenic sources including sewage sludge application, wastewater irrigation, and agrochemical inputs. Cultivating plants for food or fodder on contaminated soils poses the risk of absorption and subsequent transfer to edible parts, potentially endangering human and animal health. Metal accumulation in plant tissues can result from the absorption of metals by root systems and/or from the deposition of airborne metal contaminants onto plant surfaces. The extent of metal(loid) accumulation in plant tissues is highly influenced by a multitude of factors including the physicochemical and biological properties of soils, the elements involved, and the plant species.Submissions should encompass cutting-edge research on the origin, distribution, and behavior of metal(loid)s in soils, including their transfer within the soil–plant system. Emphasis should be given to rhizosphere processes influencing metal transfer, as well as methods for assessing bioavailability and conducting health risk assessments.

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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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