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Chemical Elements in Plants and Soil: Parameters Controlling Essentiality

By Fränze, Stefan

Condition: New. Publisher/Verlag: Springer Netherlands | In order to give a more coherent theory behind plant mineral nutrition, this book offers an explanation of the essentiality of chemical elements in biological systems and the application of stoichiometric network analysis to the biological system of elements. | Earlier works on plant essential elements have revealed a series of complicated, counter-intuitive relationships among various chemical elements in different plant species, due to both unlike usage of certain elements in plants and to different carriers effecting resorption and transport. In an attempt to provide a more coherent theory behind plant mineral nutrition, this groundbreaking book adopts a very different approach from the existing literature, presenting an explanation of the essentiality of chemical elements in biological systems and the application of stoichiometric network analysis (SNA) to the biological system of elements. Starting with data from biochemical environmental analysis, and a discussion of the phenomena involved in metal ion partition and autocatalytic behaviour, conditions and criteria controlling the partition of metals into biomass are investigated. Several rules are derived and investigated in terms of their interaction both in comparisons among contemporary organisms and in terms of evolution. This allows the construction, for example of a map...



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