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# Significance of Major and Trace Element Contents in Leaves of Tall Trees and Seasonal Plants

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## ABSTRACT

*Role and function of major and trace elements are now primarily dealt in several fields of environment, bioinorganic, biochemistry etc. In plants, rich literature is available in these aspects. We have chosen leaves as our samples for multielement analysis as it is dynamic and functional in nature contribute to the morphology of the plants. Our analysis is classified as major and trace level elements as water extract and the insoluble part converted to ash in the subsequently analyzed for 11 elements by state of the art MPAES. The unique part of our work is that we have compared two categories of plants as tall trees and seasonal plants. Trends could be identified between the ratio of water soluble and insoluble bound form and some pattern of quantitative nature could be traced out. Correlation study also indicates that some elements like Fe, Zn, Cu, Ca and Mg are more critical. All these results have impact in the overall morphology of plants.*

**Keywords:** Major and trace elements, Tall trees, Seasonal plants, Correlation studies.