عنوان مقاله:

Comparative Energy Dispersive X- Ray Fluorescence Analysis of Mangifera Indica L. Leaves In the Locality of Kachchh and Saurashtra

محل انتشار:

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خلاصه مقاله:

The aim of the present study was to determine the comparative investigation of chemical composition in the leaves of Mangifera indica L. in the region of Kachchh and Saurashtra. Mangifera Indica L. belongs to the anacardiaceae family. The leaves of Mangifera Indica L. were subjected to energy dispersive X-ray fluorescence (EDXRF) and analysed for different mineral compositions. As we know, XRF is one of the most sensitive, accurate, consistent, and non-destructive methods for analysing major and trace elements by using a single pressed pellet. During the analysis, it was found that in kachchh and Saurashtra region, Mangifera Indica L. leaves contain silicon, calcium, potassium, chlorine, sulphur, magnesium, aluminium, and iron were noted in higher amounts compared with that of other elements like strontium, manganese, titanium, bromine, zinc, barium, rubidium, nickel, silver, lead, molybdenum, etc. whereas the elements which were not detected in the leaves of Mangifera Indica L. are sodium, vanadium, uranium, mercury, silver, gold, etc. In comparison of Kachchh and Saurashtra region of Mangifera Indica L. leaves calcium, silicon, potassium, aluminium, phosphorus, and iron were high in the region of Saurashtra rather than the Kachchh leaves and other elements are presented in trace amount.

کلمات کلیدی:

Mangifera Indica L, ED-XRF analysis, Kachchh region, Saurashtra region, elements

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