

Comparison of data analyzed by PIXE with XRF in chemical composition for beech forest soil samples collected in Mt. Iwaki (II)

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Abstract

Chemical contents of soil samples were analyzed by Particle Induced X-ray Emission analysis (PIXE) and X-ray fluorescence spectrometry (XRF). An analytical comparison of PIXE with XRF is discussed in composition for soil samples collected at Kyoboku-no-mori in Mt. Iwaki, Japan. There were differences between raw data with these two analytical methods. The content values of major elements show wider variations in PIXE than in XRF. For Ti, Fe, Mn, Ca, and K, PIXE data were agreed well with XRF data. For the other elements, however, data correction were needed. Correction processes were discussed.