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POLLUTION CONTROL OF SOIL BY EDXRF AND INAA METHODS

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Elemental contents of soil samples collected around a fertilizer plant in Romania in a pollution control study were investigated. An analytical method based on the Energy Dispersive X-Ray Fluorescence (EDXRF) with Ge(HP) detector and radioactive excitation sources is presented. To taste this method a comparison of the element concentration results with those that were found by Instrumental Neutron Activation Analysis (INAA) on the same material was made. Detection limits for various elements by the both methods are given. The EDXRF method is valuable especially for its relative low cost, simplicity and rapidity.

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