

Analytical characterization of an ecosystem of Vrancea mountains

Anca DUMBRAVA, Semaghiul BIRGHILA and Simona DOBRINAS

Department of Chemistry, The Ovidius University of Constanța, 124 Mamaia blvd, Romania

Abstract This paper presents the analysis of the total content of metals, copper, iron and chromium in natural samples collected from Vrancea mountain, near Lepsa zone. The analyzed techniques used were the titrimetric method for the analytical characterization of waters and molecular absorption spectrometry in visible for the determination of Fe, Cu and Cr. In order to increase the sensitivity of analytical determinations, the method of the standard addition was used.

Keywords: Cu, Fe and Cr determination, titrimetric method, spectrophotometric method, environmental samples.
