



The impact of metallurgic activities on the soil quality in Dambovița county

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The dusts resulted from the metallurgic activities have a great impact on the soil, by the high contribution in heavy metals. These elements are accumulated, especially in the superior layer of the soil, from where they are absorbed by plants, and after that the metals overtake in high concentration in the food chain, even in human body. The impact of metallurgic activities on the soils was established by the heavy metals concentration which, in a high range, affects the soil quality. The acquired concentrations have maximum values which get over the alert limit for soils affected by the sedimentable dusts. The concentration level of heavy metals in the soils, influenced by the metallic dusts, range of 89,51-420,86 mg/kg dry soil for Cr; 131,8-600,39 mg/kg dry soil for Cu; 132,79-870,33 mg/kg dry soil for Zn; 71,99-294,28 mg/kg dry soil for Pb, respectively between undetectable limits and 11,2 mg/kg dry soil for Mo.