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Black Locust (*Robinia pseudoacacia* L.) Resources Investigation for Degraded Areas Rehabilitation and Soil Biogenity

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Abstract

An object of the present investigation was the waste bank from an open iron ore production in the outskirts of Sofia, Bulgaria. On the base of the carried out studies on the fertility of the soil substrata through some of their chemical (organic, acidity) and microbiological indices (heterotrophic block of the microflora), an assessment was made of the site conditions, the degree of the microelements (biogenity), speed and direction of the mineralisation processes with a view of the level of soil formation in these industrial waste banks and the future management of the plantations on them (*Robinia pseudoacacia* L.). Due to their anthropogenic origin, in connection with the development of the soil formation processes, a special attention was paid to the sorption and migration of the ions of the heavy metals (Fe>Mn>Pb>Zn>Cu>Cd) of the microbiocoenosis as indicator of the microbiological status of the substrata.