

4th International Conference on **Pollution Control & Sustainable Environment**
&
6th Edition of International Conference on **Water Pollution & Sewage Management**
July 26-27, 2018 Rome, Italy

Evaluation of the influence of additives from different types of compost on the soil properties

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The current study presents the results of the performed analyzes and the comparison of the effects of additives of different types of compost on the soil properties. Three different compost types were obtained using different methods of production - home composting method for the production of two of the composts was applied and the industrial composting installation from the tunnel type for the third one was used. The results of experiments on the influence on the content of the basic nutrients (N, P, K), pH, conductivity, humus, porosity, etc. are presented. Various mixtures were used between the starting materials - compost and soil and pot experiments were carried out with an experimental plant culture. The choice of the experimental culture was made after a preliminary study and on the basis of the characteristics - a short growing season and reaching fruiting within six months of planting. The data obtained on the basis of the vascular experiments were analyzed and the respective conclusions were summarized in two directions: on the agri-ecological efficiency of the different types of composts; and on the most appropriate ratio (the respective mixture applied) for cultivation.

Biography

Metodi Kirilov Mladenov has successfully defended his dissertation in 2012 and obtained PhD in Technology for waste recovery and treatment from University of Chemical Technology and Metallurgy. In 2007 he completed his Master's degree in Ecology and Environmental Protection at the UCTM with excellent success. During the period 2006-2012, he worked as a Chemist in the Analytical Chemistry Section in the Institute of General and Inorganic Chemistry at the Bulgarian Academy of Sciences. In 2012 he was appointed as an Assistant to the Department of Engineering Ecology at the UCTM and in 2013 he was elected as a Assistant Professor to the same department.

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