

IMPROVEMENT OF AIR QUALITY MANAGEMENT STRATEGY BY EVALUATION OF URBAN POLLUTION

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Abstract. *Air quality management strategy (AQMS), designed on the original results of air pollution research, is significant and efficient, and can be effectively employed in managing acceptable urban air quality. The AQM practices are specific to a particular region needs and requirements, based on a regulatory management framework. The first objective of this review is focused on the evaluation of sources of particulate matter pollution in atmosphere of different areas in Cluj-Napoca, Transylvania, Romania, using the top appropriate techniques. The second objective is to figure out a prospective strategy for the AQM improvement based on the physical and chemical data obtained from the investigation of samples collected from the areas of interest.*

Keywords: particulate matters, pollution, atmosphere, AFM, XRD, TEM, SEM.

1. Introduction

The result of environment manifestations is the formation of new phases in the atmosphere. These aspects are investigated in order to understand and discover new (related) phenomena of interest [1-5]. Street dust (SD) is a complex of particulate matter (PM), due to the constructive or destructive phenomena happened in the nature. Street dust presents environmental concern and health risks for the citizens due to its high content of impurities and polluting factors [2]. The main street dust sources are natural (e.g., soil decay, volcanoes, space) [3-5]

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