Speciative Determination Of Heavy Metals In Dust Depositions

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Suspended dust in cities transports heavy metals through the air. Therefore, dust can also be used as pollution indicator for the environment. Heavy metals distributed in the air are mainly emitted by industrial applications. The use of fireworks in many kinds of celebrations clearly show that clean air is polluted by firework smoke, colouring agents (i.e. Sr(NO$_3$)$_2$, Ba(NO$_3$)$_2$) etc.

In this study, the dust samples collected from the city center, serdivan, erenler districts were analysed for heavy metal distributions and sequential extraction was used for speciative determinations of heavy metals (Cu, Fe, Ni, Pb, Cd, Zn, Co, Cr, Mn, Ba, Sr). The dust samples were analysed by flame atomic absorption spectrometric technique. The results obtained will be presented.