

**The Analysis of the Anions Content in Precipitated Water by the Method of Isotachophoresis in the Areas of Siedlce and Olecko** – Ireneusz Chrzęścik, Magdalena Szymalska, Mariusz Kluska

Summary

This paper presents the results of the research aiming at determining content of selected anions in the samples containing precipitated water (rainwater and snowfall water) by isotachophoretic method. This work is a continuation of the complex pollution monitoring in the areas of Siedlce and Olecko (near Suwałki). The samples were collected from November 2006 to May 2007. Days of sampling depended on atmospheric conditions. Sulfate and hydrogen carbonate turned up to be the dominant anions in samples which were collected in city centers. Higher contents were observed in Siedlce. The content of nitrites in both cities was low. The highest concentration of sulfates and chlorides in rainwater was obtained in the samples collected near the Company of Thermal Energy (CTE) in Siedlce. Similar results of sulfate concentration were observed in Olecko. In samples of snowfall water (collected near to the CTE) sulfates and sulfites were the dominating anions.