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INVESTIGATION OF EMISSION OF NO_x, SO₂ AND CHLORINE BY BIOMASS-BURNING

Endre Kiss, Miklós Horváth, Tivadar Prohászka

University of Dunaújváros, Dunaújváros, Hungary

It is well known that burning biomass is somewhat CO₂ neutral, but it is not widely known that that process is still a serious environment polluting one. For the investigation of the emission of some biomass material such as energy willow, bamboo, energy crane were burnt and the emission of NO_x, CO, CO₂, SO₂, and Chlorine were measured and analysed. The results show that the generation and emission of SO₂ observed at the beginning of the burning process, while the chlorine is leaving the fire at the end of the process. The emission of NO_x is rather at the middle of the process. The sum of the SO₄, and the overall chlorine ion are more than those material in the biomass, indicating that these elements are present in the material in different form.

Keywords: *biomass burning, SO₂, NO_x, chlorine*

Corresponding address:

Prof. Dr. Endre Kiss
Department of Natural Sciences and Environmental Protection
University of Dunaújváros
H-2401, 1/a Táncsics St
Dunaújváros, Hungary
Telephone/mobile: 06-30-9-684-823
E-mail: kisse@mail.duf.hu