

Composition characteristics of size-resolved airborne particles in Himeji city

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Abstract

In order to shed light on the effect of airborne particles (particulate matter: PM) on human health, we carried out size-resolved sampling of PM in Himeji City, and elemental and ionic composition analyses of the PM sample. Size-resolved PM was collected using a 3-stage NLAS impactor (Tokyo Dylec Co., Ltd.; particle cut size at sampling stages was 10, 2.5 and 1.0 μm for a flow rate of 3 L/min) with a 1 week sampling interval, and the PM sampling was began in November, 2009. As a result, the composition characteristics of size-resolved airborne particles were able to be clarified.