

## TEM mineralogy of aerosol particles in the East Asia -Characteristic coexistences of micro minerals/materials-

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Aerosol particles consisting of gaseous materials, liquid phase, soot, mineral / solid materials and plants give impact on the atmospheric environments but no adequate data of minerals / solid materials in nano-micro scales are obtained.

In this study we analyzed mineral / solid materials by TEM and EDS. The samples examined were aerosol particles in the central China and in Japan. They were obtained by Andersen Sampler AN-200. We also examined nuclei solid particles contained in acid snow in Niigata region, Japan, in comparison to the aerosol particles.

Aerosol particles in China are composed mainly of quartz, feldspar, calcite, mica, gypsum, dolomite and soot. Three different types of soot materials were also identified: aggregated type, a film-like type and fibrous type. Soot grains of aggregation type are often attached to mica's surface in the acid snow particles. Other several types of mineral grains were observed also in acid snow. There is a possibility that mica grains may accumulate soot materials in the air and both may be transported for a long distances.