



Trace element distributions and arsenic species in ashes from high arsenic coal-fired power plant in Inner Mongolia, China

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The fresh FA mainly contains pentavalent arsenic (As(V)), with only 1.22% trivalent arsenic (As(III)). The proportion of As(III) in the FA increases with the decrease of the particle size. After the fly ash was stacked in the atmospheric environment, the As(III) in fresh fly ash will be oxidized to As(V). Arsenic species in the FGDG is 100% As(V). The influence mechanism of arsenic to the soil was established, and the As(III) and As(V) can transform to each other in the environment.

