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ABSTRACT OF THE DISCLOSURE:

There is disclosed a wet-processing method for combustion ashes of petroleum fuels, comprising a slurry preparation step of preparing a slurry of the combustion ashes; a metal oxidation step of preparing a slurry containing ammonium metavanadate; a solid/liquid separation step of removing solids from the slurry containing ammonium metavanadate; a double decomposition step for ammonium sulfate, of adding a magnesium compound to an aqueous ammonium sulfate solution recovered from the solid/liquid separation step; and an ammonia recovery step of recovering ammonia from a reaction solution recovered from the double decomposition step. The above metal oxidation step is conducted while controlling an ammonium sulfate concentration of the aqueous solution to 20 to 45% by weight and the temperature of the aqueous solution to not more than 50°C, and the above solid/liquid separation step is conducted using a specific solid/liquid separator while controlling the temperature of the slurry to not more than 40°C. The above wet-processing method is an industrially useful and simple process capable of readily recovering vanadium from combustion ashes which is suitably used, in particular, in such a case where the amount of combustion ashes to be treated is relatively small or where the combustion ashes have a less carbon content and a high vanadium content.