

### Preparation of Al/MoO<sub>3</sub> Nanothermites and Their Combustion Behavior

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Al/MoO<sub>3</sub> nanocomposites were prepared by two different methods, a sol-gel and an ultrasonic mixing method. The phases of prepared MoO<sub>3</sub> xerogels were characterized by TGA/DSC, FT-IR and SEM. It was found that the exothermic heat enthalpy of Al/MoO<sub>3</sub> nanocomposites by ultrasonic mixing is much higher than those by sol-gel and thus the ultrasonic mixing method is more efficient due to that almost of all Al particles were reacted at the first thermite exothermic reaction.