**Prime novelty statement**

Removing oxidative roasting process of MoS2 and its restrictions in ferromolybdenum production procedure especially environmental problems caused by sulfur gas emission are the novelty of this study. In none of combustion synthesis methods till now, molybdenite has not been solely used as raw material. In this study, using molybdenite and lime desulfurizing agent in order to produce ferromolybdenum can be regarded a new SHS method especially with minimum environmental problems.

In this research, by Simultaneous Preliminary thermo-analytical investigations DSC/TGA and X-ray diffraction experiments, tried to demonstrated sequential endothermic and exothermic reactions at combustion synthesis process.