

**Title:**

**Experimental Combustion Research on Oil Shale and Carbonization Semicoke**

**Abstract:** (Your abstract must use 10pt Arial font and must not be longer than this box)

The burnt of oil shale and its carbonization semicoke in the circulation fluidized bed are multiphase reaction. The process of reaction is carried on between the particle surface and its aperture. The combustion motive characteristic in the process of combustion with oil shale and its semicoke is not only relative with the reactor category, operation, and wind velocity, but also relevant with the fuel characteristics including chemical element analysis, industry analysis, calorific value, and fuel granularity, and still be subjected to fuel surface characteristics and it adsorbs oxygen's ability influence a lot. The reaction medium enter fuel particle aperture and it's chemical reaction process of fuel, the pervasion process of the reaction production are relevant to the aperture structure of the oil shale and its semicoke, which is a important factor influencing the fire, pyrolysis process, and burn out . Research on oil shale and its semicoke aperture structure and the change law of the reaction process plays a significant roll on the study of its combustion, pyrolysis process, and the NOx production and revivification.

Investigated combustion conditions of different particle size oil shale and different temperature carbonization semicoke by using a small fluidized test bed .The result of experiments prove that it was short time of emission CO2 when burnt the small particle size oil shale ,so it is propitious to combustion, and the results indicated that the time of emission CO2 is distinct dissimilarity along with the change of particle size of fuel and the temperature of test bed and the temperature of carbonization semicoke when burning different temperature carbonization semicoke.

**Important notes:**

Do **NOT** enter author and affiliation information on this document. You will be able to enter this information online when you submit the abstract.

Do **NOT** write outside the boxes. Any text or images outside the boxes **will** be deleted.

Do **NOT** alter the structure of this document. Simply enter your title and abstract in the boxes. The document will be automatically processed – if you alter its structure your submission will not be processed correctly.