

# **A review of oxy-fuel combustion in fluidized bed reactors**

H. I. Mathekga, B. O. Oboirien<sup>\*,†</sup> and B. C. North

CSIR Materials Science and Manufacturing, PO Box, 395, Pretoria, 0001, South Africa

## **Abstract**

Presently, there is no detailed review that summarizes the current knowledge status on oxy-fuel combustion in fluidized bed combustors. This paper reviewed the existing literature in heat transfer, char combustion and pollutant emissions oxy-fuel combustion in fluidized beds, as well as modelling of oxy-fuel in FB boiler and gaps were identified for further research direction.