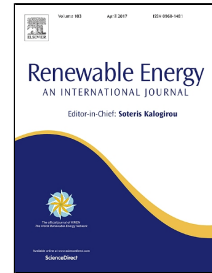


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Estimating heat transfer losses caused by alkali salt deposits in biomass combustion

Joaquín Capablo, Joan Salvadó



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Highlights:

- Prediction of the alkali salt deposits formation on the surface of a pipe of a heat exchanger.
- Overall heat balance performance in a counter current heat exchanger operating in the superheated vapor zone of a biomass boiler.
- Determination of the evolution over time of these deposits and evaluation of the heat transfer rate between the combustion gases and the superheated vapor.
- Parametric analysis regarding gas temperature, temperature and pressure of the superheated vapor, diameter of the heat exchanger tube, the gas velocity, concentration of alkali salts in the gases and particle size of the aerosols.

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