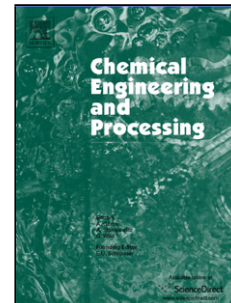


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The effect of different operational parameters on Hydrogen rich syngas production from biomass gasification in a dual fluidized bed gasifier

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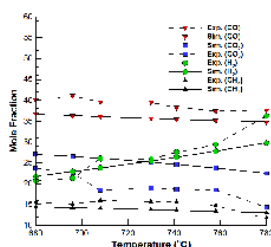
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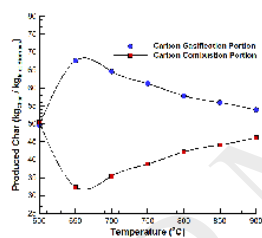
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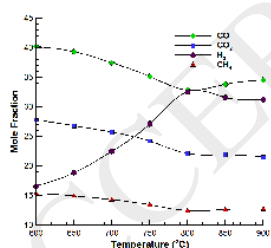
Graphical abstract



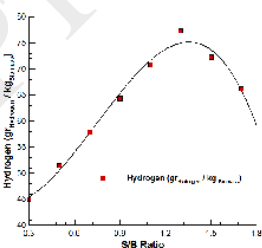
Validation of the simulated results for the steam gasification of pine wood in different temperatures (S/B=0.53)



The amount of used char in combustion and gasification processes at different temperatures (S/B=0.53).



Changes of the syngas composition with temperature (S/B=0.53).



The effect of S/B ratio on the amount of produced Hydrogen (T=800 °C).

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