

## Accepted Manuscript

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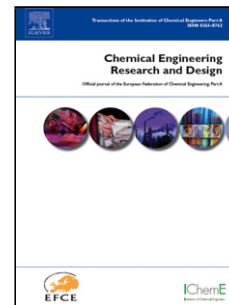
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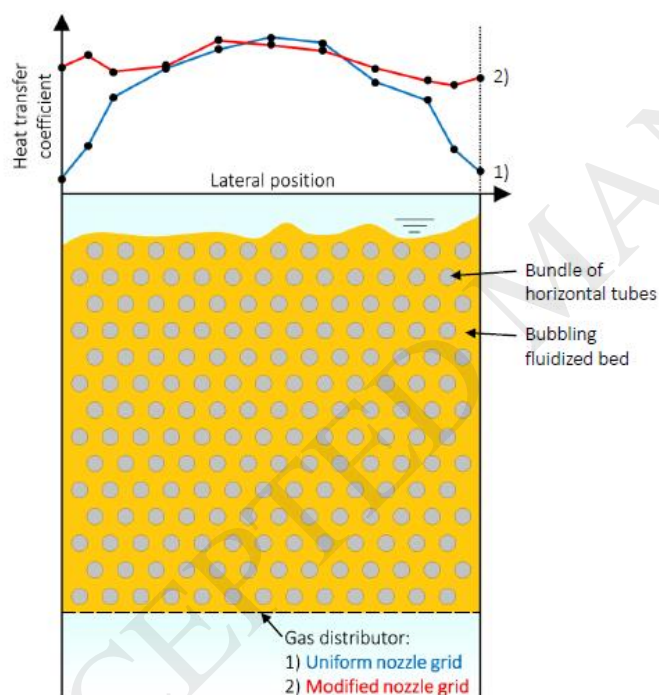
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Graphical abstract



Highlights

- Uniform nozzle-grid gas distributor leads to zoning of wall-to-bed heat transfer
- Non-uniform nozzle-grid gas distributor overcomes heat transfer maldistribution
- Indication of enhanced heat surface load and mass transfer

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