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Title: Investigation and prediction of slug flow characteristics in highly viscous liquid and gas flows in horizontal pipes

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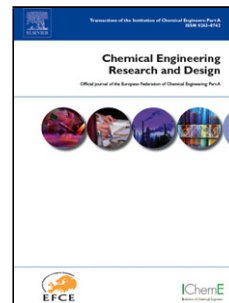
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- The paper reveals slug characteristics in highly viscous liquid/gas flow
- A mechanistic model for slug flow in a large viscosity range liquids is developed
- The good performance is verified against available data obtained from literature
- Closure equations for developing slug model in viscous liquids are suggested

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