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Title: Evaluation of kinetic models for Fischer-Tropsch cobalt catalysts in a plug flow reactor

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Highlights: (3 to 5 bulet points)

- A review of published kinetic rate models for cobalt catalyst is done
- Twelve kinetic rate models are analyzed based on different criteria in a plug flow model
- A new chain growth model is proposed and fitted to microchannel experimental data
- The proposed chain growth model includes the effect of water and predicts C₅₊ and CH₄ selectivities quite well

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