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Process modelling, design and technoeconomic evaluation for continuous paracetamol crystallisation

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HIGHLIGHTS

- A systematic NLP model has been implemented for paracetamol crystallisation cost minimisation
- Continuous Oscillatory Baffled Crystalliser (COBC) technology is considered for optimal design
- Crystallisation is studied via explicit population balance modelling and dynamic simulations
- Technical (volume, efficiency), economic (cost) and environmental (E-factor) criteria are employed.
- Crystal seed mass loading and antisolvent feed flow rate strongly affect COBC volumes required

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