## Accepted Manuscript

Title: Mixed-Integer Programming Models for Simultaneous Batching and Scheduling in Multipurpose Batch Plants

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## ACCEPTED MANUSCRIPT

## Highlights

- Novel MIP models are developed for scheduling/batching in multipurpose facilities.
- Models account for various objective functions and storage constraints.
- Models account for time-varying resource constraints and costs.
- We show how instance characteristics can be used to select most effective model.

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