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Title: A Widely Applicable Tool for Modeling Precipitation

**Processes** 

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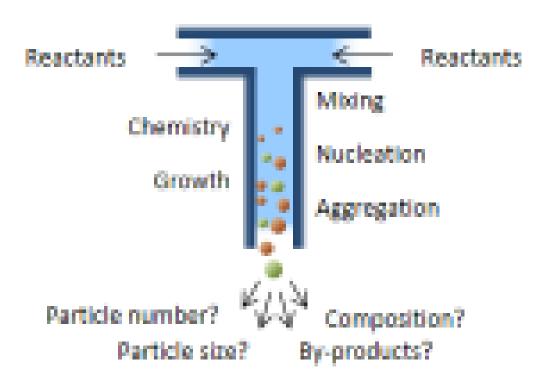
### ACCEPTED MANUSCRIPT

# A Widely Applicable Tool for Modeling Precipitation Processes

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#### **Graphical abstract**



#### Highlights

- Tool for efficient modeling of precipitation processes
- Improved description of mixing, ion complexation and solid formation
- · Arbitrary number of solid phases possible

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