## **Accepted Manuscript**

A new model for the acoustic wake effect in aerosol acoustic agglomeration processes

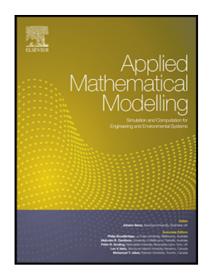
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## Highlights

- New model of acoustic wake effect in aerosol acoustic agglomeration is established.
- New model has been verified to be much more accurate than the existing model.

Particle agglomeration under the acoustic wake effect is calculated.

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