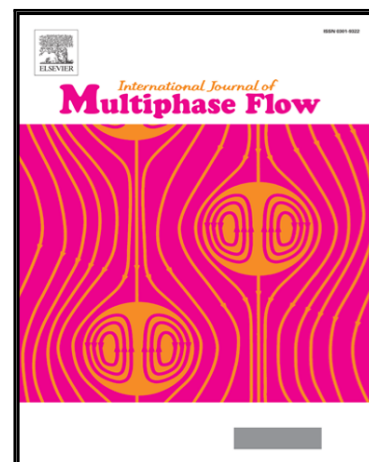


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Experimental study on the bubble breakage in a stirred tank Part 1:  
Mechanism and effect of operating parameters

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## Highlights

- The mechanism of single bubble breakage in the agitated tank was deeply investigated using high speed imaging method.
- The effect of agitation speed and mother bubble size on the breakage characterization parameters was investigated.
- The breakage probability, breakage time, and the number of daughter bubbles were determined and discussed.
- The dynamic behavior of a bubble starting from its beginning deformation until the last breakage event was analyzed and discussed

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