Development of a Continuous Crystallization Process Model including Ostwald Process

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Population balance model, which has been most frequently used to describe crystallization, has several drawbacks. Its lack of ability to explain formation of subcritical radius crystals and enlargement of critical radius forces the model to adopt a hybrid model consisting of separate and inconsistent models. In this work, we further develop works of Kaschiev and Iggland group which employs kinetic rate equation to describe behaviors of sub-critical radius crystals and Ostwald ripeging in a single model. The developed model shows change in crystallization process through control of variables, but not limited to, supersaturation and temperature.