

What is the fuss about continuous crystallization?

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Abstract

80% of pharmaceutical active ingredients (APIs) and about 60% of fine/specialty compounds are produced in crystalline form. Traditional stirred tank vessels have been the workhorse since the industrial revolution, so why and what is the fuss about continuous crystallization?

In this presentation, I shall use crystallization science to explain the key problems in batch crystallization and why flow is essential in solving these issues. I will then use real industrial cases to demonstrate that significant step change benefits can be achieved in continuous crystallization in lab, pilot and full scales. I hope that the presentation will simulate interesting discussions, promote innovations and confidence in continuous crystallization and continuous reactions.