

## **Impinging Jet Crystallization – Some Practical Aspects beyond Impingement**

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### **Abstract**

Impinging jet crystallization is a special technique for generation of fine particles. Its key features are controlled high supersaturation at the impingement zone to promote primary nucleation. Beyond controlling mixing and supersaturation at the impingement zone, this technique can be expanded to generate metastable form and maintain its physical stability by adjusting the downstream temperature and final solvent composition accordingly. Manipulating downstream mixing intensity can also be applied to generate nano-size particles which may not be achievable via impinging jet crystallization at the controlled impingement zone alone.

This presentation highlights the manipulation of downstream parameters after impingement zone to achieve the desired solid form and particle size. Case studies are presented.