

Interfacial-hydrodynamic and rheological issues in printing

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In printing processes such as inkjet and screen printing sessile suspension drops are spread on a solid surface and dried. In this presentation the characteristics of the contact line movement, the migration of particles near contact line and heat and mass transfer present in the printing process will be considered from the view point of interfacial hydrodynamics and suspension rheology. the dynamics of inkjet droplets will be also considered. The issues considered here will provide the theoretical principles of the printing process and the mechanism of the drying morphology revelation.