



Research Progress of Pharmaceutical Coating Technology

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Message from the Guest Editors

Coating is necessary for most pharmaceutical solid dosage forms, e.g., tablets, pellets, capsules and particles. Its functionalities include enhancing drugs' physical and chemical properties, achieving taste masking and spatiotemporally modifying drug release behaviors. Currently, liquid spray coating (organic solvent and aqueous systems) is practically utilized in the industry to obtain the coating film with acceptable uniformity. However, the presence of liquid (organic solvent and water) may cause several problems, such as solvent residue and VOC emissions. Additionally, the liquid coating process is not suitable for vulnerable actives and newly developed drug delivery systems such as micro/nanoparticles and implants. In order to fulfill the demand of these actives and delivery systems, many studies have been performed both in designing new dry coating strategies and developing novel coating materials, e.g., cell membranes with expanded functionalities. Therefore, the main aim of this Special Issue is to present current research works focusing on coating techniques for pharmaceuticals, particularly dry coating and coating strategies for micro-/nano drug delivery systems.





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