

Special Issue

Emerging Micro- and Nanofabrication Technologies for Drug Delivery

Message from the Guest Editors

The approaches available for the successful development of dosage forms are undergoing significant advancement, driven by challenges in the delivery associated with both low molecular weight and advanced therapeutics. In particular, the increasingly close relationship between pharmaceutical scientists and engineers has led to an exciting range of micro- and nanofabrication techniques being used for drug delivery purposes. More specifically, it is now possible to engineer and manufacture sophisticated drug delivery systems at extremely high resolution that meet the needs of modern therapeutics. These approaches range from techniques such as electrohydrodynamics (electrospinning and electrospraying)—which have been available for many years but have only comparatively recently been used as drug delivery approaches—through to microfluidics, where we are able to manipulate streams of solutions to prepare crystals, nanoparticles, and gels with high throughput and high specificity. Other such techniques include microneedles, 2D- and 3D-printed systems, nanoprecipitation techniques, and mesoporous particles and nanocomposite systems, amongst others.

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