

Special Issue

Recent Progress in Microencapsulation and Nanoencapsulation for Pharmaceutical Applications

Message from the Guest Editor

The expansion of research in this area over the past half century has led to the extensive application of microencapsulation technologies in the pharmaceutical industry for both small molecules and macromolecules, thus overcoming different formulation and process challenges and achieving controlled drug release. The adaptation of microencapsulation technologies for nanoscale applications with the additional development of diverse exclusive nanotechnological platforms, as well as the progressive development of newly synthesized materials and the exploitation of excipients from renewable sources, may ensure the creation of a multitude of nanocarriers with specific characteristics, including stimulus-controlled release for use in target drug delivery, diagnostics, and theranostics. This Special Issue aims to highlight the current progress in the design and physicochemical characterization of micro- and nano-carriers, the assessment of their encapsulation capacity and in vitro/in vivo performances, as well as the permanently demanding aspects of formulation and process development for micro- and nano-encapsulated active ingredients.

Guest Editor

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