

Special Issue

Application of Supercritical Fluid to Particulate Systems

Message from the Guest Editor

Supercritical fluid (SCF) technology is mainly used to optimize the production of drug nanonization and particulate systems for drug delivery, bioactive extraction, and chromatography. Substance manipulation under supercritical conditions is attractive for a range of procedures for demanding materials, pharmaceutical operations, and blend formation. This ranges from “green” technology concepts to impressive particle design opportunities for targeted particle size and size distributions, as well as directed chemical, crystallographic, and physical characteristics. A more recent approach toward surface modification, dispersibility, single nanocrystal formation, and morphology control of nanoparticles demonstrates the versatility of SCF technologies for functionalized coverage for specific targeting purposes such as theranostics, biosensors, antigen-presenting cells, tumoral cells, and antigen-presenting cells. Original research articles and comprehensive review articles are very welcome from RD&I in the supercritical fluid area carried out at institutes, universities, and industries.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2021)



Pharmaceutics

an Open Access Journal
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Impact Factor 5.5
CiteScore 10.0
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