



Advanced Coating Techniques for Pharmaceutical and Biomedical Applications

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Message from the Guest Editor

Dear Colleagues,

Recent advances in coating technologies have attracted strong interest for the development of multifunctional coatings in pharmaceutical and biomedical sciences. A wide range of coating technologies has been implemented to apply biocompatible, biodegradable and bioactive materials, nano- or microparticles loaded with drug substances, hydrogels and even coating of microfluidic devices for diagnostic purposes.

- Theoretical and experimental studies including new trends in coatings for pharmaceutical and biomedical applications
- Application of coatings using a range of technologies such as inkjet, jet dispensing, electrospray, electrodeposition, ultrasonic atomization and spin/dip coating
- Surface analytical and mapping techniques to determine content uniformity and study degradation pathways of coated materials
- In vitro and in vivo assessment of bioactive and biodegradable coatings in terms of material performance, mechanical properties, cytotoxicity and biocompatibility
- Recent developments of coating technologies for personalized, patient-specific applications
- Latest advances in coatings for scaffolds, bioresorbable implants, sensing and drug delivery





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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

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