

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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Special Issue

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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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