

Special Issue

Application of Nanomaterials for Drug Delivery

Message from the Guest Editors

The application of nanotechnology in medicine offers multiple advantages for effective drug delivery, with the potential to improve the efficacy and tolerability of new and old therapeutics. Nanomaterials-based products are already being applied clinically, with a number of FDA-approved imaging agents and drugs on the market and many more in clinical trials or under development. However, in order to fully realise the potential of nanomedicines, it is important to understand how the physicochemical properties and consequent bio-nano interactions of nanomaterials influence their drug release properties, interactions with cells and tissues, in vivo biodistribution, and ultimately, their fate. This Special Issue aims to provide a snapshot of the range of novel nanomaterials under development, advances in the understanding of their interactions with biological entities, and their potential applications in the broader field of medicine and healthcare. We welcome the submission of original research articles and short communications, as well as reviews, mini-reviews, and systematic review articles.

Guest Editors

Dr. Barbara Rolfe

Dr. Nicholas Fletcher

Prof. Dr. Kris Thurecht

Deadline for manuscript submissions

closed (30 September 2021)



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

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