Special Issue

Frontiers in Nanomaterials for Clinical Imaging and Selective Therapy

Message from the Guest Editors

It is more than two decades since the first nanomedicines were released on the market. During this time, a wide range of materials and compositions have been tested, mostly at the preclinical stage. The focus of these studies has been to address key clinical goals, such as the early diagnosis of degenerative diseases and the selective treatment of target cells or tissues. Currently, a new generation of imaging agents and nanomaterial-based pharmaceuticals are being developed, with improved biocompatibility, pharmacokinetics, and diagnostic and therapeutic efficacies. Once bioavailability limitations and regulatory matters concerning their somewhat complex compositions are addressed, rapid commercialization of these products is expected. In this context, this Special Issue focuses on the development of novel nanoplatforms with applications in bioimaging (e.g., MRI, PET, HIFU), and/or suitable to promote selective therapies (then, minimizing side effects) through targeted delivery and specific intracellular drug release mechanisms. Manuscripts at both the preclinical and clinical levels are encouraged.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 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

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