Special Issue

Biodegradable Inorganic Nano-Architectures

Message from the Guest Editor

Inorganic nanomaterials hold the promise to shift the current medical paradigms in a number of impacting applications, from diagnosis and treatment of neoplasms to inflammations and infections, thanks to their peculiar chemical, physical, and physiological features. Despite massive efforts, treatments based on inorganic nanomaterials are mainly at the preclinical stage, due to the body persistence issue. Indeed, nonbiodegradable materials usually result in long-term persistence within excretion system organs, increasing their likelihood of toxicity. This Special Issue of *Nanomaterials* will cover the most recent progresses in the design, production, and application of inorganic nanomaterials that may be able to escape from the organism after the designed action. A special interest is devoted to their biokinetics, biodistribution, and toxicology/biosafety, in order to support the translation of inorganic nanomaterials to the clinical setting.

Guest Editor

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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.

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