Special Issue

Nanostructured Materials based on Noble Metals for Advanced Biological Applications

Message from the Guest Editor

In these recent years, many efforts have been devoted to developing nanostructured materials, based on noble metals, for biological applications. In fact, nanodimension is the strategic key for a wide range of bio-applications, such as biosensors, biocatalysis, drug delivery, imaging and theranostic applications. A huge variety of new materials and composites have been improved, mainly via chemical approaches, using metal surface engineering to build new synergic hybrid systems. This Special Issue focuses on highlighting the progress of new nanostrucuted materials, based on noble metals, their preparation, functionalization, characterization and advanced application in biological fields. We invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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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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