Special Issue

Advanced Noble Metal Nanoparticles

Message from the Guest Editor

Nobel metal nanoparticles are one of the most widely used classes of nanomaterials, due to the large range of unique peculiarities. Their intrinsic stability and biocompatibility, merged with optical, electromagnetic, and catalytic properties, have paved to way to an amazing variety of applications. Their shape, size, and surface characteristics can be varied using a plethora of different approaches, allowing the modulation of properties (for example the localized surface plasmon resonance, LSPR), and, most importantly, the introduction of several advanced functions, so that today, these nano-objects deserve a preeminent position in the nanotechnology toolbox. This Special Issue will accept outstanding contributions on systems based on noble metal nanoparticles possessing advanced functions, covering areas ranging from chemistry to biology, materials science, pharmacology, and nanomedicine, and hopefully reaching the widest audience possible.

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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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