Special Issue

Synthesis, Characterization and Applications of Gold Nanoparticles

Message from the Guest Editor

Gold is a solid, unreactive, highly stable transition metal that is defined as a noble element. Gold does not undergo tarnishing (chemical oxidation). The use of gold nanoparticles has emerged and is expanding in different topics related to chemistry, imaging, and medicine. In general, gold is prepared as colloidal suspensions in water and used in research applications in other areas, such as medicine, biology, and material sciences. Gold nanoparticles are easy to synthesize and functionalize, and possess unique chemical and physical properties that can also be used in transporting medicines for precise delivery to their target. This Special Issue will cover the recent advances in the field of nanomaterials using gold. For further reading, please follow the link to the Special Issue Website at:
http://www.mdpi.com/si/59310

Guest Editor

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Deadline for manuscript submissions

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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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