



Synthesis and Applications of Functionalized Gold Nanosystems

Guest Editor:

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Deadline for manuscript
submissions:

closed (10 March 2019)

Message from the Guest Editor

Gold-based nanosystems constitute one of the most interesting systems in the nanoworld because of the broad spectrum of applications they can find, ranging from analyte detection, nanomedicine and the mimicry of enzymes, just to mention a few examples. The size and shape of the nanoaggregates allow one to tune the properties of the gold core, while the introduction of specific functional groups on the passivating monolayer is a portal to modulate the interaction with the surroundings: A target substrate, a protein, and a receptor.

This Special Issue will cover all types of gold nanosystems and their applications. Original research contributions (full papers or communications), as well as reviews, either broad in scope or devoted to specific issues pertinent to gold nanosystems, will be considered. All submissions should be in line with the high-quality standard of the journal *Nanomaterials* and will be subjected to a rigorous peer-review process. New synthetic protocols and new applications of gold nanosystems are particularly welcome. Submission of papers across different disciplines are highly encouraged in line with the interdisciplinary character of the journal.





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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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