

Special Issue

Gold Nanoparticles for Biomedical Applications

Message from the Guest Editor

Gold nanoparticles (AuNPs) are part of the family of plasmonic particles with a size range of 1–100 nm in diameter and can be prepared using various methods. Due to their size and free electron density, AuNPs exhibit a plethora of valuable properties, such as large surface area to volume ratio, uptake by biological systems, interactions with electromagnetic fields and simplicity of synthesis in different shapes and sizes. Subsequently, there is a continued interest in their biomedical applications, such as drug delivery, bio-sensing, and gene therapy, just to name a few. This Special Issue seeks to share the most recent and upcoming reports on the synthesis and surface modification strategies of AuNPs with a focus in biocompatibility for current and future treatment and management of human diseases.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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