Special Issue

New Trends in the Design of Metal Nanoparticles and Their Medical Applications

Message from the Guest Editor

With the continuous development of nanotechnology, metal nanoparticles, with their excellent physical and chemical properties, have received more and more attention from researchers and have been widely used in biomedical and life sciences and other fields, such as the construction and application of metal nanomaterials in drug-delivery systems and the use of metal nanoparticles as optical probes in biological imaging. At present, the research of metal nanoparticles mainly focuses on metal nanostructures such as nanocages, gold nanospheres, nanoparticles and nanorods. Based on metal nanoclusters, such as gold nanoclusters, silver nanoclusters, platinum nanoclusters, copper nanoclusters and other metal nanoclusters. Metal–organic frameworks (MOFs) are based on the coordination chemical assembly of metal ions and organic ligands. Metal nanoparticles are widely used in drug delivery, biological imaging, biomarkers, biosensing, gene therapy and other aspects because of their molecular properties, functional diversity and adjustability of structure and composition.

Guest Editor

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