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Noble-Metal Nanoparticles: Design, Characterization, and Biomedical Applications

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Message from the Guest Editors

Dear Colleagues,

Noble metals have gained increased interest in science since the discovery of new properties. Unique chemical-physic features have opened new paths and applications in all scientific and engineering fields. The high flexibility of nanoparticle design allows one to tune their morphology and surface chemistry. All these parameters are able to enhanced optical properties, and increase biological compatibility and targeting ability or antimicrobial efficacy. Therefore, there is a need to present the results of original research undertaken to develop innovative, green, and efficient noble-metal nanoparticle synthesis; to modify known processes for their preparation; to improve properties and morphology; or to develop innovative hybrid nanomaterials. Moreover, a stronger effort must be devoted to the fine characterization of both the metallic core as the engineered surface, with special attention paid to the bio/nano interface that can influence the nanoparticle activity in biomedical applications.

This Special Issue aims to publish original research papers covering the recent advances as well as reviews, addressing topics of noble-metal nanoparticle.



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Special Issue



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Message from the Editorial Board

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