Special Issue

Research on Metal Nanoparticles

Message from the Guest Editor

Nanoparticles offer a lot of advantageous backgrounds for many applications due to their physical, chemical, and biological properties. In the analytical fields the metal nanoparticles, particularly nanocarriers from precious (noble) metals are important due to their chemical stability and biocompatibility. The incorporation of metallic NPs in polymeric semiconductors is one of the methods to modify their physical and chemical properties. It is already known that electrical conductance between two electrodes in the device depends on the charge stored or trapped on NPs. The charge-trapping mechanism is affected by the NP size, and thus, the quality of NPs incorporated in these materials—their size monodispersity and shape uniformity—is crucial to their performance. Moreover, changes in field-effect mobility depend mainly on the NP size. Hence, to fully exploit the unique properties of NPs, it is extremely important to elaborate on the reproducible preparation methods of highly monodisperse NPs with defined and fully controlled shape and size, which will be the main focus of this Special Issue on “Metal Nanoparticles” of the journal *Metals*.

Guest Editor

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Message from the Editorial Board

Metallic materials play a vital role in the economic life of modern societies; contributions are sought on fresh developments that enhance our understanding of the fundamental aspects related to the relationships between processing, properties and microstructure – disciplines in the metallurgical field ranging from processing, mechanical behavior, phase transitions and microstructural evolution, nanostructures, as well as unique metallic properties – inspire general and scholarly interest among the scientific community.

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