Special Issue

Metallic Nanomaterials: Synthesis and Applications

Message from the Guest Editors

The past two decades have seen the development of new nanomaterials for applications in catalysis, nanoelectronics, sensors, nanomedicine and water remediation. In fact, nanomaterials, and more particularly metal nanoparticles, have become essential in the development of new technologies and applications in these fields. The advances in synthesis methods over the years have improved, hence realizing nanoparticles with a good size and shape control is now possible. In addition to the control of the synthesis itself, most of the metallic nanomaterials need to be functionalized and the functionalization of the surface for targeted applications has sparked a lot of interest for cancer treatment, the development of biocidal coatings and water treatment among others. This Special Issue will compile recent developments in metallic nanomaterials in the field of catalysis, nanomedicine, biocidal coating, cancer treatment and water treatment. The topics are open to all metallic nanomaterials and nanocomposites studied for applications.

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About the Journal

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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