

Special Issue on
Design of Noble Metal Based Nanomaterials

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Different types of nanomaterials are successfully integrated into fundamental scientific research and the development of new manufacturing technologies. Hundreds of products containing nanomaterials are already in use. For example, nanomaterials containing noble metal are seen in many sectors including public health, employment and occupational safety, information society, industry, innovation, environment, energy, transport, security, and space. Nevertheless the fabrication of materials in the range of nanoscale is under great interest of scientific research and application. Nanomaterials have the potential to improve the quality of life and contribute to industrial competitiveness.

In addition, noble metal based nanostructures in general and their gold, silver, and palladium analogs are attracting huge interest from the scientific community owing to their fabulous properties and diversity of applications. By manipulating the chemical composition of the materials at the nanoscale, their electrical, chemical, optical, and other properties can be manipulated precisely.

The purpose of this special issue is to publish high-quality research articles as well as reviews at the forefront of nanoscale science and technology, bringing together the science and applications of noble metal based nanoscale and nanostructured materials with an emphasis on the synthesis, processing, characterization, and applications of materials containing nanometric dimensions or nanostructures that enable novel enhanced properties or functions. The highlights of current special issue are growth and new challenges in the nanostructured materials field, both for application development and for basic research.

Potential topics include but are not limited to the following:

- ▶ Current research advancements in synthesis of noble metal based nanomaterials
- ▶ Noble metal based nanomaterials engineering
- ▶ *Ex situ* and *in situ* characterization of noble metal based nanomaterials
- ▶ Noble metal based nanomaterials in catalysis, electrocatalysis, and photocatalysis
- ▶ Noble metal based nanomaterials for energy applications
- ▶ Noble metal based nanomaterials for environment protection and remediation
- ▶ Noble metal based nanomaterials in biomedicine

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First Round of Reviews

Friday, 9 June 2017

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