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# Preparation and Application of Noble Metal and Semi-Conductive Nanoparticles

Guest Editor:

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Deadline for manuscript submissions: closed (5 January 2020)

### Message from the Guest Editor

Dear Colleagues,

Nanoparticles and nanostructures (e.g., nanoclusters, nanocrystals, and nanosponges) represent a blossoming field of science in general and nanoscience in particular. Noble metal and semi-conductive nanoparticles have been prepared and applied in different fields for a very long time already. Nevertheless, the topic is still very appealing, as new types of their preparation and application emerge. On the one hand, simple and rapid syntheses, suitable for scaling-up, have been published; on the other hand, sophisticated methods of nanoparticles preparation and the surface-modification of nanostructures for specific demands have been introduced. Due to a bundle of characterization techniques enabling a deeper insight into nanoparticles formation, customized and optimized nanoparticles syntheses for specified applications have been realized. This Special Issue of Nanomaterials is focused on the preparation and application of noble metal nanoparticles, semi-conductive nanoparticles, and nanostructures. The format of welcomed contributions includes communications, full-length articles, and reviews.









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## **Editor-in-Chief**

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## Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metalorganic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, Nanomaterials, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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