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Surfactant-Free Syntheses of Precious Metal Nanoparticles

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Surfactant-free syntheses bear promising features to make the most of precious metal unique properties. If "capping agents", "ligands", "surfactants", "polymers", "stabilizers'' etc. are commonly used to stabilize precious metal nanoparticles, these additives can have detrimental effects on the reproducibility and/or the use of the produced nanoparticles. Fortunately, a range of strategies has emerged to avoid the use of surfactants.

This Special Issue of *Nanomaterials* welcomes the submission of manuscripts investigating the synthesis, characterization, and/or applications of surfactant-free precious-metal-based nanomaterials, obtained by chemical or physical methods.

Authors are welcome upon submission of their work to stress how their research relates to the use or understanding of surfactant-free synthesis of precious metal nanomaterials. We hope that this Special Issue will be a useful platform to offer an overview of recent progress and remaining challenges in the development of surfactant-free syntheses of precious metal nanomaterials.

Dr. Jonathan Quinson
Guest Editor

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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, metal–organic 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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