Special Issue

Silver Nanoparticles: Synthesis, Detection, Characterization and Assessment in Environment

Message from the Guest Editor

The production of silver nanoparticles (AgNPs) has grown in last years because of the special physicochemical properties that they present. As known, these nanomaterials are widely used in commercial products due to their antibacterial properties, which increase their intentional or unintentional release in the environment. Once there, AgNPs can suffer interactions with natural components, which can affect their final toxic effects. Therefore, characterization and quantification of these emerging pollutants in environmental and biological samples with adequate analytical methodologies is needed. The special Issue entitled “Silver Nanoparticles: Synthesis, Detection, Characterization and assessment in the environment” aims to cover current studies, in the field of the AgNPs synthesis and characterization.

Guest Editor

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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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