Special Issue

Nanomaterials-Based Functional Inks for Printing Applications

Message from the Guest Editors

Nanomaterial-based functional inks have gained significant attention in recent years for their potential applications in printing. These inks incorporate nanoscale materials (nanoparticles or nanocomposites) to provide specific functionalities and properties to the printed patterns. One of the key advantages of using nanomaterials in functional inks is the ability to control the properties, such as conductivity, transparency, or even biological activity, of the resulting printed materials. This opens up new possibilities in various applications, including advanced electronics, photovoltaics, sensors, smart packaging, biomedical devices, etc. This Special Issue plans to include research articles, short communications, and reviews related, but not limited, to the following:

- The preparation and use of nanomaterials for the development of functional inks.
- -Characteristics, properties, and printing applications of functional inks based on nanomaterials.
- Applications of printed devices that utilize nanomaterial-based functional inks.

In general, works that contribute to the elucidation of a representative image of this subject.

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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