Special Issue

Nanomaterials for Printed Displays

Message from the Guest Editor

With the emergence of new materials, new technology, and new equipment, new displays are being developed which offer ultra-high resolution, large size, light weight, flexibility, and low cost. Compared to traditional display technologies based on vacuum deposition, printed displays are cheap, flexible and can be produced widely, offering effective solutions to the present issues in the field. The preparation of patterned thin films by printing nanomaterials has been widely attempted in various fields of display technology, such as OLED displays, QLED displays, displays, flexible displays, thin film transistor backplane for displays, and so on. This Special Issue aims to highlight novel aspects of printed technology using nanomaterials for new displays. Challenges that may be addressed are new nano-ink formulations, printing of multilayer functional films at low temperatures, development of new printing processes, and technology for printed displays. The special issue aims at summarizing the basic knowledge and pointing out the challenges associated with nanomaterials for printed displays.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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