Special Issue

Advanced Flexible Materials for Printed Electronics

Message from the Guest Editor

Printed Electronics is one of the fastest growing fields. Currently, a huge research effort is being undertaken to allow smart devices to be printed onto flexible, bendable, and even stretchable substrates.

To further this area of research, investigation in three important aspects of Printed Electronics is required: ink formulation, printing technology and interaction of the inks with the substrates. Printing on flexible substrates such as foils, paper, textiles, and other fiber-based substrates requires proper understanding of the interaction between the ink formulation and these substrates. Both the flow behaviour and wetting on the substrate of choice and the absorption into the substrate need to be addressed. Further, most of these flexible and stretchable carriers are heat-sensitive, and thus both printing technology and post-processing should be adapted to achieve functional designs.

This Special Issue aims to publish a collection of the latest research on the use of advanced functional materials for ink formulation, the deposition of these new materials with state-of-the-art printing technology, and the understanding of their interactions with a wide variety of substrates.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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