Special Issue

Flexible Electronic Materials and Devices: Preparation and Application

Message from the Guest Editor

Flexible electronics have advanced significantly in the past decade, enabling their application in numerous domains where conventional rigid electronics cannot be applied, such as bioelectronics and electronic sensors, etc. Two main strategies have been proposed to introduce flexibility in electronic materials: reducing the thickness of commercially available inorganic semiconductor materials and designing novel semiconductor materials with intrinsic mechanical flexibility. Further advances in flexible electronic devices would require the matrimony of material synthesis, device physics and engineering, and advanced characterization expertise to enable the development of high-performance devices with decent reliability for practical real-world applications. This Special Issue aims to compile research papers, short communications, and review articles focused on the synthesis of novel materials, device design, fabrication, and the advanced characterization of various flexible electronic devices for the identication of the main milestones in the roadmap of future flexible electronics research.

Guest Editor

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Message from the Editor-in-Chief

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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