Special Issue

Advances in Metal Oxide Semiconductor Thin Films and Devices

Message from the Guest Editor

Thin films and devices composed of metal oxide semiconductors are currently experiencing a disruptive change towards becoming lighter, softer, and more flexible. Thin film devices include wearable and textile integrated systems. In order to enable all these uses, the latest advancements in thin film technologies must involve their change to become flexible, lightweight, transparent, conformable, stretchable, and even biocompatible and biodegradable. Since flexible thin film transistors (TFTs) can meet each of these requirements, they are becoming increasingly important for creating platforms for the next generation of electronic devices. Modern flexible TFT technologies are particularly well suited to metal oxide semiconductors because of their great optical transparency and strong electrical performance. For the upcoming flexible energy-harvesting devices, self-powered systems that include displays, sensors, data-storage units, and information processing capabilities, any new developments in thin film devices based on metal oxide semiconductors are essential.

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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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