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Emerging Materials and Their Use in Electronic Applications

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Message from the Guest Editor

With the rapidly growing demand for next-generation electronic devices, new materials and devices have been extensively suggested over the past several decades. This Special Issue aims to broadly cover the emerging materials and their applications in electronic devices, ranging from theoretical understanding and the characterization of emerging electronic materials to the design, fabrication process, and analysis of electronic devices based on those emerging electronic materials. The following topics are particularly of interest: Emerging semiconductor materials (low-dimensional semiconducting materials, organic semiconductors, carbon nanotubes, and metal-oxide semiconductors); Dielectric materials (including organic dielectrics, inorganic dielectrics, and their hybrid forms). The demonstration of electronic devices is important to verify the practical applicability of newly developed electronic materials. This Special Issue covers various kinds of electronic devices, particularly thin-film transistors and related devices such as memories, integrated circuits, and sensors as well as other types of devices composed of new dielectric and/or semiconductor materials.

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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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