Special Issue

Advances in Conducting and Semiconducting Materials

Message from the Guest Editor

The scope of application of conductor and semiconductor materials is vast. These materials find utilities not only electrical modules, devices, etc., but are also used as components, circuits, and other auxiliaries related to electronics, computers, and instrumentation fields. Advanced conductors that outperform silver, copper, and nanocarbon can revolutionize the electronics industry. Advanced semiconductors that have such superior performance (e.g., high voltage resistance, high efficiency, high radiation resistance) are the "core" of a new generation of information technology, prioritizing energy saving and smart manufacturing. Understanding film materials, process control, kinetics, growth, microstructure, and electrical properties are important for microelectronic applications of advanced conductor and semiconductor materials. We invite colleagues to contribute to this Special Issue on the aforementioned concepts and keywords. The goal for this Special Issue is to describe the recent developments in this rapidly developing interdisciplinary research field. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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