Special Issue

Wide Band Gap Semiconductors: From Growth to Applications

Message from the Guest Editors

The development of efficient and environmentally friendly semiconductor devices is a great challenge. Among the materials of present and future perspective are wide bandgap semiconductor materials. The recent progress in crystal growth, theoretical modeling, understanding of as-grown and/or intentionally introduced defects, and numerous applications has offered a new perspective for wide bandgap semiconductors such as SiC, GaN, Ga2O3, diamond, and others. This Special Issue of *Materials* is dedicated to all aspects related to the growth, material characterization, modeling, and applications of wide bandgap semiconductors with the aim to provide an overview of the issues of current interest and future perspectives. Researchers working in the field are invited to contribute. Potential topics of interest include but are not limited to the following: growth and characterization techniques of crystalline materials; wide bandgap semiconductors; SiC, GaN, Ga2O3, diamond; device applications; modeling, first-principles calculations, etc.; deep level transient spectroscopy; electron paramagnetic resonance.

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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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