Special Issue

Semiconducting-Nanomaterials-Based Electronic and Optoelectronic Devices

Message from the Guest Editor

Rapid advances in the field of semiconducting nanomaterials allow new opportunities for next-generation electronics and optoelectronics. For example, one-dimensional semiconducting carbon nanotubes and two-dimensional semiconducting analogous graphenes such as transition metal dichalcogenides, black phosphorus, etc. have been utilized for high-performance transistors, memory devices, diodes, and photodetectors. In addition, an emerging semiconductor category, halide perovskites, has been introduced for promising optoelectronic applications due to its remarkable optical and electrical properties. The Special Issue on "Semiconducting Nanomaterials Based Electronic and Optoelectronic Devices" brings together contributions from scientists working on nanomaterials and their electronic/optoelectronic applications to overview the current state-of-the-art research. The main topics of the Issue will cover emerging nanomaterials, nanomaterials processing, electronic devices, and optoelectronic devices. We look forward to seeing your submissions!

Guest Editor

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