Special Issue

Nanowires: Growth and Applications

Message from the Guest Editor

Nanowires (NWs) are one of the best defined and controlled classes of nanostructures in nanoscience and nanotechnology. Most of the key parameters of NWs, including diameter, length, chemical composition, doping, and growth direction, can be rationally controlled, resulting in a well-defined growth of NWs. The unique control over the microstructure of NWs has enabled them to become a promising building block for various devices and integration strategies. Today, it is widely recognized that the rational design and synthesis of NWs are critical to understanding fundamental properties and developing novel devices. The Special Issue will compile recent developments in the field of NWs, focusing on the growth and applications of NWs. The articles presented in this Special Issue will cover various topics, ranging from but not limited to the growth strategies of NWs, synthesis of NWs, organization and assembly of NWs, functionalization of NWs, nanoelectronic devices, flexible electronics, nanophotonics, and nano-LEDs.

Guest Editor

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Message from the Editorial Board

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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