

Special Issue

Nanostructure-Based Memory Devices

Message from the Guest Editor

Electronic memory devices have been leading the microelectronics technology for years, having a critical and crucial role in the current computing machines. They affect every facet of our social life, health, security, transportation and environment, etc.

Since we are living in the period of nanotechnology and nanoelectronics blossom, the size of the electronic devices has shrunk, allowing nanostructured memories to play a significant role. Furthermore, the new nanofabrication techniques and tools allow the utilization of nanoparticles, single molecules, and DNA as materials suitable for information storage. Nanotechnology has revealed new features of materials and devices: the physical and electronic properties of nanoparticles are different from those of bulk materials, and the operation of nanowire transistors becomes more complicated than that of the planar elements. High-quality papers on all the above-mentioned types of memory, topics, and open issues should be written and collected in a special volume. It is my pleasure to invite you to submit a manuscript for this Special Issue.

Guest Editor

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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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