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Nanostructure-Based Memory Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2020)

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.

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Message from the Editor-in-Chief

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