Physics and Applications of Nanostructures in Electronics and Optoelectronics

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Message from the Guest Editor

Dear Colleagues,

Nanoscience and nanotechnologies have grown into a booming area of research with many applications in various areas of sciences, such as nanoelectronics, biology, quantum technologies, and quantum computing. The physics of nanostructures represents a challenge for atomically thin materials and needs precise modeling to predict the performances of devices based on them. This Special Issue will be focused on the following topics:

- the physics of atomically thin materials
- electronic and photonic devices based on atomically thin materials
- nanoscale sensors for mechanical, electrical, and electromagnetic applications
- non-standard computing based on nanodevices, such as quantum computing and neuromorphic computing
- energy harvesting based on nanomaterials

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Guest Editor

Special Issue

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Message from the Editor-in-Chief

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