Special Issue

Energy-Efficient Nanoelectronics

Message from the Guest Editors

Over the last two decades, nanoelectronics has seen explosive growth. Devices' dimensions shrunk rapidly as their energy consumption decreased, reliability improved, and speed increased. At the same time, there has been a strong interest in non-traditional nanoelectronics involving such devices as memristors, spin-based electronics, and molecular electronics. This Special Issue invites papers on the following topics:

- Ultra-miniaturized charge-based electronics, including memristors, NC-FET, TFET, etc.
- Spin electronics
- Molecular electronics
- Two-dimensional electronics based on graphene, MoS2, black phosphorus, and other two-dimensional materials
- Organic nanoelectronics
- Nanoelectronic circuits, systems, and architectures for computing, sensing, and signal processing.

Guest Editors

Prof. Dr. Supriyo Bandyopadhyay

Prof. Jean-Pierre Leburton

Prof. Asim Ray

Prof. Dr. Brajesh Kumar Kaushik

Deadline for manuscript submissions

closed (15 November 2021)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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