



Energy-Efficient Nanoelectronics

Guest Editors:

Prof. Dr. Supriyo Bandyopadhyay
sbandy@vcu.edu

Prof. Jean-Pierre Leburton
jleburto@illinois.edu

Prof. Asim Ray
asim.ray@brunel.ac.uk

Prof. Dr. Brajesh Kumar Kaushik
bkk23fec@iitr.ac.in

Deadline for manuscript
submissions:
closed (15 November 2021)

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Takayoshi Kobayashi

Advanced Ultrafast Laser
Research Center, The University
of Electro-Communications, 1-5-
1, Chofugaoka, Chofu, Tokyo
182-8585, Japan

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.

Author Benefits

Open Access:— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q2 (*General Engineering*)

Contact Us

Applied Sciences
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[@Applsci](https://twitter.com/Applsci)