Special Issue

International Conference on Modern Circuits and Systems Technologies (MOCAST) on Electronics and Communications 2023

Message from the Guest Editors

Nanoelectronic materials and elements are of specific significance for enhancement when establishing novel electronic digital and analog circuits and devices.The design of new and complex electronic schemes based on new nanoelectronic elements requires appropriate software environment. The main goal of this Special Issue is to collect new research works on novel nanoelectronic elements, the corresponding schemes, and their analysis and design. Example topics of the proposed contributions include but are not limited to:

Novel materials and technologies for fabrication of integrated chips;
Novel nanoelectronic elements;
CMOS nanoelectronic circuits—modeling and analysis;
Logic gates and schematics based on nanoelectronic elements;
Artificial intelligence circuits and systems based on novel nanoelectronic elements. Please see more details at the following link: https://www.mdpi.com/si/146775

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About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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