Special Issue

Design, Simulation, Fabrication, and Characterization of Nanoelectronic Devices

Message from the Guest Editors

The collection centers on breakthroughs enabled by emerging materials, such as two-dimensional, organic materials, topological, and quantum materials, and explores how these materials enable novel functionalities at the device level. Topics of interest include, but are not limited to, memristive systems, neuromorphic devices, spintronics, and reconfigurable architectures that promise to redefine the capabilities of future electronic platforms. We invite contributions that span the full research pipeline, from theoretical modeling and simulation to experimental fabrication and comprehensive characterization. Submissions may focus on individual devices, new circuit-level paradigms, or integration strategies that bridge materials science, electrical engineering, and computational design. By bringing together diverse approaches, this Special Issue aims to provide a valuable reference for researchers developing energy-efficient, high-performance, and intelligent nanoelectronic systems.

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Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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