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Microelectronics

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Message from the Editor-in-Chief

Microelectronics bridges academia, industry, and policymakers, fostering cutting-edge research to develop sustainable, energy-efficient solutions for tomorrow's technologies. We invite scholars and innovators to contribute high-impact research on the latest advancements in microelectronics, including theoretical breakthroughs, experimental validations, and real-world applications.

We invite researchers, engineers, and innovators worldwide to submit their groundbreaking work to *Microelectronics*. Whether your expertise lies in atomic-scale phenomena or system-level integration, we aim to amplify your contributions and foster collaborations that redefine the future of electronics.

Editor-in-Chief
Prof. Dr. M. Jamal Deen

Aims

Microelectronics is dedicated to facilitating the dissemination of scientific research in microelectronics by encouraging authors to publish their experimental and theoretical findings with thoroughness and detail. There is no restriction on the maximum length of the papers. We also encourage authors to share the full details of their calculations and experimental methodologies within their contributions. Our goal is to foster a transparent and accessible platform that supports advancements in microelectronic research and technology.

Scope

Device Design and Engineering
- Transistor technologies (ultra-scaled, thin-film, organic, ferroelectric)
- MEMS/NEMS, power devices, RF/ microwave components
- Neuromorphic computing devices

Circuit Design and System Integration
- Analog/digital/mixed-signal IC design
- System-on-Chip (SoC) and embedded systems for IoT
- Electronic Design Automation (EDA): Tools for simulation, verification, and optimization

Applications and Emerging Technologies
- Sustainable microelectronics manufacturing: Energy-efficient processes, recyclable materials
- Biomedical sensors, automotive electronics, and AI-integrated systems
- Quantum computing interfaces and quantum-classical hybrid systems

Materials and Fabrication Innovations
- Wide-bandgap semiconductors, 2D materials (graphene, TMDCs), and nanomaterials
- Advanced lithography (EUV, nanoimprint) and 3D integration techniques
- Low-/high-k dielectrics, flexible substrates, and biocompatible materials

Testing, Reliability, and Standards
- Fault diagnosis, reliability modeling, and lifetime prediction
- Nanoscale metrology (TEM, AFM) and industry compliance frameworks

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