



Beyond Moore Technology and Devices

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Message from the Guest Editor

Dear Colleagues,

Moore's law is an empirical observation made by Gordon Moore in 1965 that the number of transistors in a dense integrated circuit (IC) doubles about every two years. Moore's Law has propelled the development of the semiconductor industry for a half-century due to the advances in silicon electronics in miniaturization. As silicon devices reach atomic scale and fabrication costs continue to rise, Moore's law is anticipated to flatten by 2025, giving rise to post-Moore technologies afterward. The development beyond Moore's evolving technology requires an investment in basic science, including material science and device physics, to explore candidate replacement materials, device structures and system architectures to foster the continued technology scaling. Thus, new chip materials, novel devices structure, new integration processes, and special system architecture have emerged as a fascinating field of research and development to move electronics beyond Moore's Law.





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