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Steep-Switching Devices

Guest Editor:

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Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editor

Dear Colleagues,

The continuous scaling of transistors has significantly improved the device performance and density, but it has resulted in soaring-up power density in integrated circuits. To realize the hyper-connected society (smart cities), ultra-low-power devices for implementing all the infrastructures in smart cities are desperately needed.

The main objective of this Special Issue is to accumulate prominent papers which unveil/propose various properties of steep-switching devices and alleviate critical issues from the devices. The interests of this Special Issue include, but are not limited to:

- Negative-capacitance FETs
- Tunnel FETs
- Phase-transition FETs
- Nanoelectromechanical relays
- Feedback FETs
- Ultra-low-power applications
- Neuromorphic applications using steep-switching devices
- Device structures of steep-switching transistors
- Materials for steep-switching devices
- Fabrication of steep-switching devices

Prof. Dr. Changhwan Shin
Guest Editor

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Message from the Editor-in-Chief

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