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Challenges and Applications of Non-volatile Memory

Guest Editor:

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Deadline for manuscript submissions:
closed (31 October 2020)

Message from the Guest Editor

The miniaturization of modern, cheaper electronics with a reduced power consumption is channelizing classical physics into the quantum domain. Among several others, non-volatile memories are one of the driving forces of this enormous development over the past few decades. This opens up new opportunities and applications of non-volatile memories to serve the future with a realistic view.

In this Special Issue, we are particularly interested in high-quality submissions that highlight the current and future trends of flash memory; advances in emerging memory technologies, such as phase change memory, resistive random-access memory, ferroelectric memory, and so on; and emerging applications of non-volatile memories, addressing the recent breakthroughs in two-dimensional (2D) material systems for memory applications. The topics of interest include, but are not limited to, the following:

- Flash present and future
- Emerging nonvolatile memories
- Emerging devices and computing technology
- Emerging devices and security
- Non-volatile memories for biotechnology
- 2D materials and memory devices
- Failure analysis of non-volatile memories

Welcome to contribute.

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Message from the Editor-in-Chief

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