Special Issue

Advanced Non-Volatile Memory Devices and Systems

Message from the Guest Editors

Advanced non-volatile memory devices and systems have had a profound impact on the field of data storage and computing, revolutionizing the way we store, access, and manage information. These technologies have significantly improved data transfer speeds, energy efficiency, and overall performance in various electronic devices. One major impact of advanced non-volatile memory devices is their role in modern storage solutions. Furthermore, non-volatile memory has become an essential component in mobile devices, such as smartphones and tablets. Another significant impact is in the Internet of Things (IoT) domain. Non-volatile memory provides low-power and durable storage solutions for the vast amounts of data generated by IoT devices, enabling edge computing capabilities and real-time data analysis without relying heavily on cloud services. Furthermore, advanced non-volatile memory devices have enabled the development of novel computing architectures, such as neuromorphic computing and in-memory computing. In conclusion, this Special Issue is dedicated to advanced non-volatile memory devices and 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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