Special Issue

Novel Surface and Bulk Acoustic Wave Devices

Message from the Guest Editors

Surface acoustic wave and bulk acoustic wave devices have always been a hotspot in the field of piezoelectric devices. Commercially, the demand for high-frequency, large-bandwidth, and low-loss filters in the RF front-end of mobile phones continues to drive the development of surface and bulk acoustic wave devices. Various high-sensitivity acoustic wave sensors are also attracting the attention of researchers and investors. At the same time, with the continuous improvement of the basic research, some new devices are also emerging, such as the surface acoustic wave amplifier based on the acousto-electric amplification effect, and the XSAW/XBAW devices based on the single crystal piezoelectric substrate. It is worth noting that sensors based on single-crystal piezoelectric thin-film substrates have not been studied much, which is undoubtedly an important topic in this field. Accordingly, this Special Issue seeks to showcase research papers, communications, and review articles that focus on novel methodology, design and fabrication developments in surface and bulk acoustic wave devices, including, but not limited to, the topics mentioned above.

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