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# Planar and Spatial Filtering Techniques for Millimeter-Wave and Terahertz Applications

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## **Message from the Guest Editors**

Dear Colleagues,

With the rapid development of modern wireless communications and increasingly scarce spectrum resources, there is a growing demand for high-performance millimeter-wave and terahertz components/devices. Filtering devices, including planar and spatial filters, are some of the most basic components in RF front-end systems to select the desirable signals in operating frequencies and prevent interferences from signals of other bands. Generally, filters are cascaded with other devices, such as power dividers, antennas, couplers, or other massive modules, which could introduce unexpected interference, discontinuity and more losses. Therefore, multifunctional filtering devices, such as filtering antennas, filtering power dividers, frequency selective surface, etc., are further researched. Diverse filtering techniques at microwave, millimeter-wave, and even terahertz regimes need to be extensively explored for the development of different communication systems such as current 5G and future 6G.

Prof. Dr. Kai-Da Xu Dr. Kai Ren Dr. Cheng Guo *Guest Editors* 







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