

Special Issue

New Trends in Microwave/Millimeter Antennas/Filters: From Fundamental Research to Applications

Message from the Guest Editors

The rapid growth of wireless communication systems has led to a high demand for the design of microwave/millimeter components with properties of multiband, high-performance and ease to combination with other devices. Recently, 5G wireless communication networks have started to stimulate the development of beam-steering techniques. In comparison with previous technologies, including 4G wireless applications, 5G is shifting to higher frequencies, in turn obtaining wider bandwidths and providing a higher capacity. The use of mm-wave and sub-6 GHz bands has been proposed to open up services supporting networks of small/large cells facilitating high-capacity hotspot zones while increasing area efficiency. The printed antennas/filters have been considered to be the best candidate in 5G communication systems; they should be compact in size, have a wider bandwidth, high gain and be compatible with other system components. This Special Issue primarily targets the latest technology and developments in microwave/millimeter system components.

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