Special Issue

Advanced Technologies in Microwave and Millimeter Wave Antennas

Message from the Guest Editors

This Special Issue delves into the latest advancements in antennas, focusing on their innovations and diverse applications. With recent advances in communication, there is an increasing demand for microwave devices. To maximize resource utilization and maintain good reliability, as well as to ensure its compact size and performance, it is necessary to realize multiple functions for the antenna and its metasurface. This Special Issue aims to explore cutting-edge developments in antenna design, including novel concepts, materials, manufacturing techniques, and their practical applications across communication, sensing, and imaging systems. Topics of interest include but are not limited to base station antennas, filter antennas, phased array antennas, MIMO antennas, metamaterial-based designs, beamforming technologies, and integration challenges in both microwave and millimeter-wave frequency bands.

- multiband
- filter antenna
- metasurface
- base station antenna
- MIMO antenna

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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