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Substrate Integrated Waveguide (SIW) and Its Applications

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closed (31 October 2019)

Message from the Guest Editors

Dear Colleagues,

During the last decade, Substrate Integrated Waveguide (SIW) technology has been largely implemented for the construction of numerous microwave devices and circuits based on innovative solutions or re-proposing, by following a quasi-planar approach, well known functionalities of classical waveguide based components/systems. The possibility to fabricate shielded structures by employing planar geometries has provided an amazing way to fabricate innovative resonators exhibiting very high quality factors, suitable for filter and oscillator applications. Multi-layered print circuit board (PCB) or low-temperature co-fired ceramic (LTCC) technologies and SIW approach allow reaching a high feasibility, planar integration and packaging degree. As a consequence, the possibility of fabricating complex structures at low cost fulfils the increasing demand of highly sophisticated antennas for satellite communication, 5G and new generation wireless systems, Tera-Hertz systems, bio medicine and a number of other applications.

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Message from the Editor-in-Chief

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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