Special Issue

Substrate Integrated Waveguide (SIW) and Its Applications

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Francesco Prudenzano

Assoc. Prof. Anthony Ghiotto

Assoc. Prof. Antonio Morini

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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